



Once a musical instrument generates sound vibrations, it reaches the human ear through various mediating objects, each of which significantly affects the sound. The material and configuration of the instrument, the electric/electronic/magnetic amplifying system, the air and the reverberation of the room all affect the final sound. Sound modeling, the latest DSP technology, "virtually" reconstructs these objects. Roland's breakthrough Composite Object Sound Modeling (COSM) uses the advantages of multiple modeling methods and succeeds in accurately emulating existing sounds, as well as producing sounds that have never before been created.



Roland/BOSS's innovative Multi-Dimensional Processing (MDP) analyzes audio signals in many dimensions and applies ideal effects to each. By giving different dynamic changes relative to the input signal in real time, MDP can create bold, all-new sounds with a previously unattainable range of expression.

Roland, BOSS, Accu-Pitch, Blues Driver, COSM, eBand, LOOP STATION, METAL ZONE, MICRO BR, RHYTHM COACH, ROTARY ENSEMBLE, SLICER, SPACE ECHO, TSC, V-Guitar are either registered trademarks or trademarks of Roland Corporation in the United States and/or other countries

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Not Reissued...Reborn



OverDrive OD-1X

A Sound nnovator

In 1977, the OD-1 Overdrive was released to wide acclaim, praised by guitarists everywhere for its warm, natural tone. Introduced the very next year, the DS-1 Distortion featured a more aggressive tone, inspiring countless players around the world with a new high-gain sound.

Since the introduction of these landmark pedals over 35 years ago, BOSS has continued to refine and perfect the technology of overdrive and distortion design.

The new OD-1X Overdrive and DS-1X Distortion represent the roots of BOSS craftsmanship and decades of experience in pursuing the "ideal distortion sound."

Reborn in 2014, the OD-1X and DS-1X keep the innovation going.



Starting in April 2014, BOSS now offers a five-year warranty on its entire line of pedals in the compact series.

The packaging has also been refreshed with a simple and cool new design.



*The product warranty will be provided only within the territory of the authorized Roland distributor where the product is purchased. Regardless of any statements on the product package, the scope of the warranty (terms of validity and applicable conditions) is subject to the laws of the relevant country and the authorized Roland distributor's rules. For additional information, please contact customer support for the authorized Roland distributor in your region.





Not Reissued...Reborn



OD-1X OverDrive

Special edition BOSS overdrive pedal with next-generation sound, feel, and response

All-new design provides a superior playing experience that's unattainable with analog overdrive pedals Powerful real-time processing delivers rich, wide-range sounds with

Current Draw 45 mA (DC 9 V)

natural compression



Distortion

IDS-1X Distortion

Special edition BOSS distortion pedal with next-generation sound, feel, and tonal response

Powerful real-time processing adapts to your playing to provide ideal distortion tones in every register
High-clarity distortion sound that's never muddy or boomy, even when playing two or more notes at the same time

MD-2 Mega Distortion

Nu-School Distortion with Massive Low End

This pedal's dual Distortion and Gain Boost circuits take thick, heavy distortion sounds to a whole new level Special Gain Boost and Bottom controls let you shape your tone for maximum volume and low-end punch

Current Draw 18 mA (DC 9 V)

IBC-2 Combo Drive

British Combo-Amp Tone and Beyond Wide range of tones from classic crisp

clean and punchy crunch to creamy overdrive with long sustain and beyond Natural and dynamic response to picking nuance Provides warm combo tones and authentic combo-amp cabinet resonance

Current Draw 45 mA (DC 9 V)



sounds from a stompbox Based on an extensive analysis of

classic guitar amps, this pedal provides the ultimate in distortion tones - Simply twist the Sound knob for super-dense crunches, intense drive, and powerful ultra high-gain tones

Current Draw 36 mA (DC 9 V)



MT-2 Metal Zone

BOSS's Most Popular

 Features dual-gain circuitry for thick, tube stack distortion with heavy mids and lows and long-lasting sustain

A 3-band EQ with semi-parametric mids takes your sound to the extreme

Current Draw 20 mA (DC 9 V)



Extreme Metal in a **Compact Pedal**

The ML-2 delivers massive distortion and gain with heavy lows for music that requires a crushing sound • The ML-2's ferocious and biting tone will slice through any blast beats your rhythm section can produce



FZ-5 Fuzz GOSZ

A Distorted Blast from the Past

 The FZ-5 uses COSM technology to authentically reproduce three famous vintage fuzz effects of the '60s and '70s Turn the FUZZ knob to BOOST and you'll create an intense distortion that even exceeds the originals



Current Draw 36 mA (DC 9 V)

SD-1 SUPER OverDrive

Warm, Tube Drive Sounds Uses BOSS's asymmetric overdrive

circuitry for warm, smooth overdrive sounds that respond to your picking style just like a tube amp Includes a Tone control to dial in just the right sound



OD-3 OverDrive

Natural Overdrive with Endless Sustain!

Olassic BOSS overdrive, based on a dual-stage design for bigger, fuller sounds Variable Drive and Tone controls create overdriven sounds from mild to extreme with almost endless sustain



BD-2 Blues Driver

The Perfect Tone for Blues

 Get the tone of a bluesy, vintage tube amp in a compact pedal capable of anything from warm overdriven sounds to full-on distortion • Leaves the subtle nuances of your playing intact



Current Draw 13 mA (DC 9 V)

FB-2 Feedbacker/Booster

The New-Breed Booster with Natural Feedback

 Wide tonal variety, from flat, clean boost to powerful mid-boost and bright. clear treble boost

Boost characteristics can be changed continuously and smoothly from one knob Advanced feedback function provides smooth and natural amp feedback



Current Draw 45 mA (DC 9 V)

for BASS

Current Draw 36 mA (DC 9 V)

ODB-3 Bass OverDrive

Crunchy Overdrive Effects

for Bass An overdrive effect designed to cover the entire frequency range of bass guitars, including 5-string basses Overdriven sounds can be blended with dry bass signal for maximum



Current Draw 15 mA (DC 9 V)

clarity and punch

CS-3 Compression Sustainer

Improves Your Overall

 Compresses louder signals while boosting lower signals for smooth sustain without degrading the original sound quality Onboard EQ provides precise tonal control; low-noise design for super-quiet operation



Current Draw 11 mA (DC 9 V)

for BASS

OS-2 OverDrive/Distortion

Current Draw 6 mA (DC 9 V)

Distortion and Overdrive Together At Last!

 A flexible pedal capable of producing overdrive, distortion, or a combination of both Get "in your face" distortion while maintaining the subtle nuances of single-coil guitar pickups



DS-1 Distortion

Current Draw 9 mA (DC 9 V)

Used by Pros Everywhere

A classic! Add some hard-edged distortion while preserving the subtle nuances of your playing dynamics A Tone control is provided for easy sound shaping



DS-2 TURBO Distortion

Two Distortions for the Price of One

Current Draw 12 mA (DC 9 V)

Features twin modes for an expanded range of distortion — taking you from blues-rock rhythms to searing leads at the press of a pedal or twist of a knob



Advanced Electric-To-**Acoustic Guitar Modeling**

The AC-3 is a new-generation compact pedal that employs COSM modeling technology to transform any electric guitar into a variety of beautiful



GE-7 Equalizer

Powerful 7-Band EQ!

Shape your sound and eliminate feedback with seven bands of equalization Includes frequencies ranging from 100Hz to 6.4kHz with a



Current Draw 16 mA (DC 9 V)

AC-3 Acoustic Simulator

powerful 15dB boost/cut per band



Current Draw 10 mA (DC 9 V



 Current Draw 4 mA (DC 9 V) Current Draw 12 mA (DC 9 V)

Current Draw 39 mA (DC 9 V)

[Compact Pedal Effects Specifications] Nominal Input Level -20 dBu Nominal Output Level -20 dBu Power Supply DC 9 V: Dry Battery <6F22/6LR61 type>, AC Adaptor (PSA series: Optional) ■ Dimensions 73 (W) x 129 (D) x 59 (H) mm (2-7/8" x 5-1/8" x 2-3/8") ■ Weight (depending on the model) 400 to 450 g/15 oz to 1 lb ■ Accessory Dry Battery ■ Option AC Adaptor (PSA series)

CE-5 Chorus Ensemble

The Original Chorus

 Produces everything from mild, natural chorusing to the penetrating stereo chorus popular in contemporary music Oovers a wide frequency range and includes both high- and low-cut filters



CHI-1 SUPER Chorus

A Unique Stereo Chorus

Delivers a clean chorus sound with crystal-clear highs and a unique stereo effect, variable between the left and right speakers An EQ function adjusts the tonality of the chorus sound



Current Draw 22 mA (DC 9 V)

for BASS

CEB-3 Bass Chorus

A Chorus Pedal with

Built-in Crossover

 A split-frequency chorus capable of applying warm, rich chorus to higher frequencies without muddying the lows A space synthesis effect guarantees a natural and spacious chorus effect



Tremolo

● Current Draw 22 mA (DC 9 V)

TR-2 Tremolo

Classic Tremolo Sounds!

Reproduces the classic tremolo

effects of vintage '60s amps using a

waveform is variable from triangle to

Current Draw 20 mA (DC 9 V)

Multi Overtone

Expressive Compact with

Distinctive, All-New Tones

Impressive, harmonically rich sounds

straight guitar sound . Works well with

both clean and distorted guitar tones,

and also bass guitar . Three different

sound modes: wide range of tonal adjustment with simple controls

Current Draw 40 mA (DC 9 V)

that compliment and enhance your

NOP

Low Frequency Oscillator (LFO) LFO

square for producing a variety of classic



PS-6 Harmonist

Create three-part harmonies, de-tune, and bend with ease!

 Latest DSP delivers high-quality natural sound Three-voice harmony pitch-shifting, and de-tuning Powerful super-bend effect enables amazing multi-octave effects Pitch can also be controlled with a Roland EV-5 external pedal (sold separately)

Current Draw 45 mA (DC 9 V)



 The RV-5 Digital Reverb gives you six of BOSS's best reverbs - including spring reverb emulation, gate reverb. and an all-new "Modulate" mode - in a true stereo pedal

Current Draw 50 mA (DC 9 V)

for BASS



Controls MIXER, TONE, DWELL Current 37 mA Weight 420 g/15 oz (incl. battery)

SYB-5 Bass Synthesize

Synth Power Under Your

Utilizing the latest in DSP technology,

classic sound characteristics of analog

synthesizers
The 11 internal sounds

are supercharged for thick, aggressive

the SYB-5 faithfully reproduces the

for BASS

Foot

Current Draw 22 mA (DC 9 V)

AW-3 Dynamic Wah

Unbelievable "Talking" Wah Effects!





Current Draw 50 mA (DC 9 V)



The Flanger Gets a

Face-Lift The thickest stereo flanging sounds ever in a BOSS pedal

Ultra mode

produces BOSS's deepest flanging sounds ever, while Gate/Pan creates spacious flanging with a cool Slicer effect that seems to "swirl" around the

Current Draw 40 mA (DC 9 V)



distinct modes A variable Delay Time control creates delays from 12.5 ms to 800 ms, while a Hold function is capable of producing repeats from here to infinity



-langer

Current Draw 35mA (DC 9 V)

OC-3 SUPER Octave

The Ultimate Octave Pedal

The OC-3 SUPER Octave puts new polyphonic octave effects, a Drive mode with distortion, and the original OC-2 effect in one convenient pedal that's ideal for bass, too



Current Draw 50 mA (DC 9 V)



Modern Phasing with Tap Tempo Sync

Vintage BOSS phasing effects including 4-, 8-, 10-, and 12-stage phasers, plus new "Rise" and "Fall" effects for unidirectional phasing . Tap tempo sync or realtime control of rate via an Expression/Pedal input



Current Draw 50 mA (DC 9 V)

PH-3 Phase Shifter

Nop

DD-7 Digital Delay The Next Step in Compact

Delay The DD-7 takes the best features from its predecessors and expands the creative potential with Modulation Delay mode, classic modeled Analog Delay mode, external pedal control options. longer delay time, and more



Current Draw 55 mA (DC 9 V)



Make Your Playing Soar with Majestic Ambience

 Dynamic new stereo ambience effect that goes far beyond traditional delay and reverb Oramatically enhances the direct tone, but never overwhelms it Freeze function holds the ambient sound for lead backing and sound effects



Current Draw 53 mA (DC 9 V)



Stereo track looper with

up to 3 hours of recording! Diverse loop performances with up to 99 phrases and approximately three hours of recording time True-stereo input and output. AUX IN accepts audio from MP3 players Connect to your PC via USB to import and export phrases

Current Draw 70 mA (DC 9 V)



LMB-3 Bass Limite

Smooth Tone, Every Time

Smoothes out your playing by eliminating harsh volume peaks, even when using dynamic slap and pop techniques Ratio and Threshold knobs allow precise control of limiting parameters



Current Draw 17 mA (DC 9 V)

LS-2 Line Selector

A "Must-Have" Pedal!

Eliminate unwanted noise and hum without altering your tone

A unique noise detection circuit preserves the natural attack and envelope, leaving your playing and dynamics intact

Current Draw 20 mA (DC 9 V)

NS-2 Noise Suppressor



Simplifies Your Setup

Current Draw 25 mA (DC 9 V)

The easy way to switch settings among several effects or amplifiers, or route input and output signals . When used with an AC adaptor, the LS-2 can supply power to several BOSS compact nedals



ITU-3 Chromatic Tune

Current Draw 50 mA (DC 9 V)

The New World-Standard **Tuner Has Arrived**

 Smooth 21-segment LED meter with a High-Brightness mode that cuts through the harshest outdoor glare Accu-Pitch Sign provides visual verification when tuning is complete



● Current Draw 30 mA (High Brightness mode: 85 mA)

VOLUME PEDAL SERIES

FV-500H Foot Volume/Expression

The FV-500H (mono. high-impedance) volume pedal offers a new stylish design, a road-tough build, and a comfortable, smooth action.



■ Control MINIMUM VOLUME knob ■ Dimensions 110 (W) x 289 (D) x 72 (H) mm (4-3/8" x 11-7/16" x 2-7/8") Weight 1.6 kg/3 lbs 9 oz

FV-500L Foot Volume/Expression

The FV-500L (stereo. low-impedance) die-cast volume pedal is built for comfort and durability, ready to meet the needs of the most demanding pros.

■ Control MINIMUM VOLUME knob ■ Dimensions 110 (W) x 289 (D) x 72 (H) mm (4-3/8" x 11-7/16" x 2-7/8") Weight 1.6 kg/3 lbs 9 oz

FV-50H Volume Pedal

FV-50H is designed to be connected before guitar effect units in the signal chain.



■ Control MINIMUM VOLUME knob
■ Dimension 86 (W) x 200 (D) x 54 (H) mm (3-3/8" x 7-7/8" x 2-1/8") Weight 400 g/15 oz

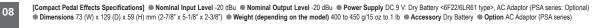
FV-50L Volume Pedal

FV-50L is designed for connection after effects units or for use with



■ Control MINIMUM VOLUME knob
■ Dimensions 86 (W) x 200 (D) x 54 (H) mm (3-3/8" x 7-7/8" x 2-1/8") Weight 400 g/15 oz







LOOP STATION RC-30 DUAL TRACK LOOPER

Stereo 2-Track Looper with Effects

• Store up to 99 phrases, ultra-long recording time of up

USB 2.0 port allows you to connect to a PC and import/

● Built-in effects for processing loops ● Mic jack* for recording

voices and instruments

AUX IN jack for recording audio from your MP3 player
Runs on batteries or optional AC power supply

Two stereo channels for input and output

BEND DOWN This effect bends the pitch down rapidly.

Unique lo-fi effect

STEP PHASER This phaser varies the tone in a step-wise fashion

SWEEP FILTER This effect varies the frequency in sync with the tempo.

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GIGA DELAY DD-20 DIGITAL DELAY



BOSS' Most Powerful Delay Pedal



- Up to 23 seconds of delay with easy operation 11 delay modes including classic tape delay and
- New "Smooth" and "Twist" modes for subtle or radical delay
- effects Memory function for changing delay modes seamlessly
- Push-button knob for setting delay time in fine or coarse

SOS	DUAL	TWIST	PAN
WARP	SMOOTH	TAPE	MODULATE
ANALOG	REVERSE	STANDARD	



sound-on-sound recording











ROTARY ENSEMBLE



The Rebirth of a Roland Classic

■Built-In Loop Effect



- Amazing simulation of the famous Roland RE-201, with the spacious, analog tone
- Features include 11 types of echo and reverb effects
- The classic chorus effect produced through tape speed. compression, and saturation are meticulously reproduced
- Tap input pedal allows delay time to be set by foot





Instant Groove and Melody Maker



- Instantly transform a guitar, bass, keyboard, or vocal into a pulsating groove instrument
- 50 slice patterns onboard, with adjustable attack and duration, including Harmonic Slice
- Up to 40-second recording/loop playback function Tap Tempo via onboard pedal switch; internal and MIDI sync

 Variety of output modes, including the unique 3D Panning for spacious



RT-20 ROTARY SOUND PROCESSOR

Supreme Rotary-Speaker Simulator



- Authentic rotary speaker sounds by COSM technology
- 4 types of sounds, from standard rotary speaker effects to rock-oriented tones and more
- Slow/Fast transition time is adjustable from gradual to rapid change: optional Expression pedal can control speed in real time ● Onboard Overdrive effects ● Dazzling virtual-rotor display





Clip-On Tuner with "True" Color Display



- Proven BOSS quality and reliability in a clip-on format
- Dramatic advancement of visibility with multi-color LCD
- Flat tuning up to 5 semitones
- Accu-Pitch function, and Stream mode
- ●Accu-Pitch Sign function provides visual verification when tuning is complete ●Two meter-display modes: Cent (needle-style movement) and Stream (flow of lights indicates pitch deviation)

 Stylish design and robust body

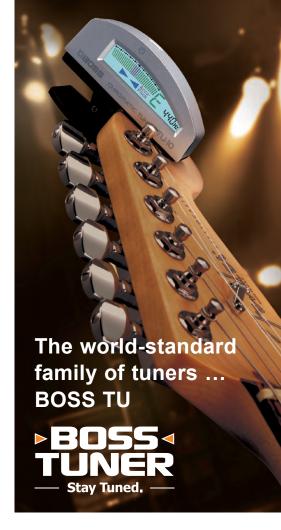
 Five color variations available



TU-3 CHROMATIC TUNER

The World-Standard Pedal Tuner

- 21-segment LED meter with brightness control
- High-Brightness mode enhances meter visibility outdoors Flat tuning up to six semitones below standard pitch
- Accu-Pitch Sign function provides visual verification when tuning is complete
- Chromatic and Guitar/Bass mode (with support for 7-string guitars and 6-string basses) Two meter-display modes: Cent and Stream● Signal is automatically muted when the tuner is on ● Supplies power for up to 7 BOSS compact effect pedals



TU-12EX CHROMATIC TUNER





Famous TU-12 Features with Exciting Enhancements



- 23.9 mm thick body for easy storage in guitar cases
- Flat Tuning of up to six half-steps down
- Accu-Pitch verification with an audible beep
- Oversized needle indicator for superb visibility plus LED tuning guide Extended tuning range of E0-C8 for a variety of instruments High-sensitivity built-in mic provides accurate and stable tuning for acoustic instruments

 Auto power off prolongs battery life





Triple-Function Tuner for Guitar and Bass



- Three tuning modes; Chromatic, Guitar and Bass
- Built-in headphone amp lets you tune, warm up, and check your effects in private
- Built-in metronome with selectable rhythmic patterns and volume control
- Chromatic and Guitar/Bass mode (with support for 7-string guitars and 6-string basses) ● Flat Tuning function, and Accu-Pitch verification with an audible beep ● MIX IN allows jamming with an external audio player

 Available in black or white

TU-12 BW CHROMATIC TUNER

BATTERY (C

Designed Exclusively for Brass and Wind Instruments





- Reference Pitch allows for long-tone practice
- Quick Response mode offers faster needle response
- Includes clip-on contact mic and music-stand attachment bracket
- Needle-accurate metering Accu-Pitch provides audible verification of tuning

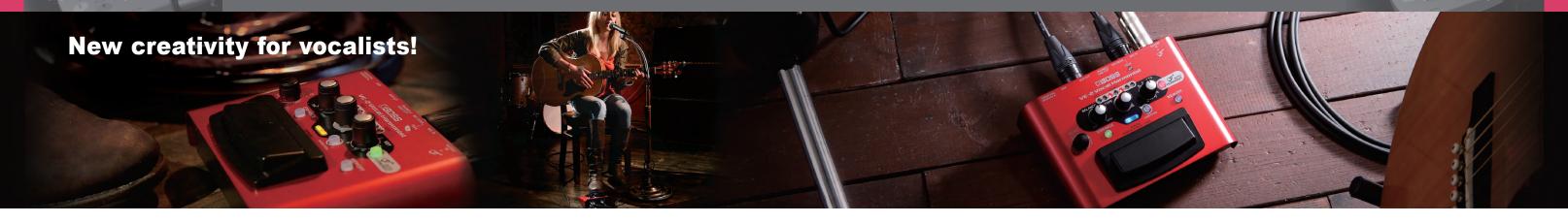
TU-80 TUNER & METRONOME



The Pocket-Sized TU-80 Provides Tuning + Metronome



- Smooth, high-resolution needle-style LCD meter
- Supports chromatic tuning, plus 7-string guitars and 6-string basses
- Metronome features eight rhythm styles
- ●Accu-Pitch function sounds a tone when tuning is complete ●Flat tuning of up to 5-steps below







Enrich Your Vocals with Beautiful Harmonies— **Just Plug in Your Guitar and Sing!**



- Auto Harmony function automatically detects chords played on a connected guitar and generates perfectly matching harmonies, even during mid-song key changes
- Solo singers can create harmonies by manually setting the song key with a dedicated
- High-quality reverb/delay and an enhancer with real-time pitch correction
- Runs on four AA-size batteries or optional PSA-series AC adaptor
- 24 harmony types to choose from (12 one- and two-voice harmonies plus variations that provide even fuller sounds)
- Hybrid mode creates harmonies based on both guitar chord input and the manual key setting, perfect for songs where the guitar part transitions between rhythm and lead playing • Friendly user interface that's simple to use, even for vocalists not familiar with using effects
- Runs on four AA-size batteries or optional PSA-series AC adapter
- XLR mic input with phantom power (phantom power is available even when running on batteries)

 USB audio function for capturing processed vocal sounds into your computer









Attach a VE-5 to your mic stand, and operate the unit from an easily reachable distance while you perform.



VE-5



- High-quality effects for vocalists, easy to operate
- Perfect for live performances
- Attach to your mic stand for convenient control
- Available in two color variations: white or red
- A variety of high-quality effects are onboard, including reverb, delay, dynamics, pitch correct, distortion, radio, and strobe for unique and impactful special effects • 30 preset effects are easily accessible with a simple turn of a knob

 The handy Favorite Sound function lets you instantly access your preferred sounds with a press of button
- Phrase looper enables sound-on-sound solo performance with hands-free control via optional footswitch • In addition to the balanced XLR/TRS microphone jack, a built-in microphone is provided as well
- Take it onstage and attach it to a microphone stand for real-time performance, or bring it to a studio or home and use it as a tabletop processor

 Battery operation makes it an ideal tool for street performers who want to bring a new dimension of creativity to their act

No.	Sound Name	Features
01	BRIGHT ECHO	Pleasant echo
02	DEEP ECHO	Deep echo
03	ARENA	Simulates an enormous arena
04	CATHEDRAL	Deep and rich reverb
05	ENSEMBLE	Spacious ensemble sound
06	POP	For vocal definition
07	BALLAD	Ballad tone with reverb
80	ROCK	Rock sound also suitable for simple backing
09	JAZZ	Jazz club setting
10	HIP HOP	Processed vocal, lightly distorted
11	HARMONICA	Setting for harmonica; simulates amp distortion
12	SAXOPHONE	Setting for sax, with crisp reverb
13	5th HARMONY	Parallel-fifth harmony, suitable for many styles
14	3rd HARMONY	Parallel-third harmony, emphasizing the feel of the song
15	DOUBLE VOICE	Double-tracking effect simulates two voices
16	FOUR VOICE	Double-tracking effect and delay simulate four voices
17	UNISON	Unison sound that adds depth to your vocal
18	PitchCorrect	Natural-sounding pitch correction in semitone steps
19	CHROMATIC	Chromatic voice sound, pitch-corrected in stepwise fashion
20	ROBOT	Cyber-robot voice
21	ElectricTune	Stepwise pitch correction in large steps
22	DISTORTION	Vocal distortion
23	RADIO	Radio-voice sound ideal for instantly changing the atmosphere
24	STROBE	Rhythmic Rap setting
25	CHORUS	Chorus effect for vocal depth
26	FLANGER	Flanger effect that adds a sense of modulation
27	HEAVY SCREAM	Hardcore vocal
28	SPACE LOUNGE	Outer space announcer
29	OPERA QUEEN	Lustrous high voice
30	REFRAIN	Distinctive echoed voice

Vocal Performer



The Essential Stompbox for Vocalists



- Specialized effects for vocalists, including Double-Track, Dynamics, and more
- Create 3-part harmonies and layers
- Special FX, including distortion, radio and strobe
- Phrase Looper with 38 seconds of recording time
- Runs on six AA-batteries or optional AC adaptor



■ Preset Sound List

No.	Sound Name	Features
01	HARD ROCK	A powerful preset suited for hard rock
02	POP	Great for pop songs with clear vocal distinction
03	BALLAD	Ideal for ballads with rich resonance
04	OLDIES	Suited for oldies from the '50s
05	ROCK	Direct and full sound tailored for rock
06	JAZZ	Create an intimate sound as if you're singing in a jazz club
07	ECH0	An echo effect that makes great use of short delays
08	ARENA	The sound of singing in a spacious arena
09	CATHEDRAL	The grand, stately reverberation you'd get in a cathedral
10	HIP HOP	A great hip-hop sound with a touch of distortion
11	VOICE PERC	A crisp sound that's great for voice percussion
12	HARMONICA	Pleasant distortion for blues and rock harmonica
13	DOUBLE VOICE	Stack your vocals with this realistic double-track effect
14	TRIPLE VOICE	Add another voice to create a 3-part harmony
15	6 VOICE	Combination of double-track and delay creates
		a 6-part sound
16	5th HARMONY	Harmony in 5ths suited for a broad range of songs
17	3rd HARMONY	Beautiful harmonies in 3rds
18	5th + DOUBLE	Harmony in 5ths + double-track effect
19	3rd + DOUBLE	Harmony in 3rds + double-track effect
20	3rd + 5th LOW	Harmony in 3rds and 5ths (two lower parts)
21	3rd + 5th	Harmony in 3rds and 5ths (lower part and higher part)
22	3rd + 5th HIGH	Harmony in 3rds and 5ths (two higher parts)
23	DISTORTION	Wild distortion effects
24	RADIO	Retro-sounding radio voice
25	STROBE	Great for rhythmic phrases such as in rap
26	CHORUS	Chorus effects add a pleasant thickness to your sound
27	FLANGER	With its unique undulating effect, this was designed specifically for vocals
28	PitchCorrect	Natural pitch correction in half-tone increments
29	CHROMATIC	Pitch-corrected sound that's a staple of modern pop
30	ROBOT	Robotic voice, a techno staple

AD SERIES







IAD-3 ACOUSTIC INSTRUMENT PROCESSOR



Models Six of the World's Finest Acoustics!



- Floor-based acoustic guitar processor featuring COSM Acoustic Modeling technology
- Turns ordinary piezo-equipped guitars into six of the world's finest acoustics
- Body and String Enhance controls simulate warm, miked acoustic sounds
- Sculpt your tone with high-quality reverb and 4-band EQ Auto Anti-Feedback function eliminates feedback instantly ●4 preset memory locations for switching acoustic sounds instantly

 Balanced XLR
- outputs allow direct connection to PA systems Battery or AC powered, chromatic tuner onboard



Floor-Based Acoustic Processing



- Compact acoustic instrument processing pedal developed exclusively for gigging acoustic-electric guitarists
- Bi-Stereo Chorus offers split-frequency processing (Low and High) for natural, smooth chorus effect
- "Bottom" and "Top" controls offer variable tonal shaping to eliminate "dry" sound from piezo pickups and add rich, resonant lows and brilliant highs as desired
- ●Stereo balanced outputs allow for direct connection to PA ●Dual Anti-Feedback function can be manually set to eliminate feedback

 Battery or AC powered, chromatic tuner onboard







USB AUDIO (ASIO)

Tabletop Loop Station that can be operated with the hands, perfect for beatboxers, vocalists, and club performers



■Types available for both Input FX and Track FX

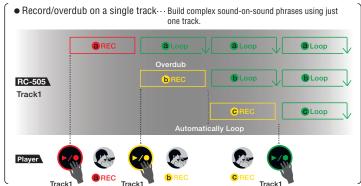
FILTER	ROBOT	PAN
PHASER	VOCAL DIST	SLICER
FLANGER	VOCODER	DELAY
SYNTH	DYNAMICS	TAPE ECHO
LO-FI	EQ	GRANULAR DELAY
GUITAR TO BASS	ISOLATOR	CHORUS
TRANSPOSE	OCTAVE	REVERB

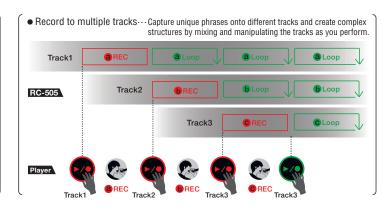
■Types available only for Track FX BEAT REPEAT BEAT SHIFT BEAT SCATTER VINYL FLICK

- Five simultaneous stereo phrase tracks, with dedicated controls and independent volume faders
- Wide range of Input FX and Track FX for processing loops, including DJ and sampler-style effects
- Independent play mode and tempo sync settings enable a flexible combination of track behaviors and advanced performance options
- 99 phrase memories, each containing five phrase tracks, custom effects/playback settings, and more
- The innovative loop indicator shows you a track's status, loop position, and playback level for instant visual confirmation ●85 onboard rhythm patterns, including odd-measure beats ● External control via MIDI and optional footswitches or expression pedal ●USB for phrase import/export with computers; USB audio/MIDI functionality for integration with DAW software

 XLR mic input with phantom power, mono/stereo instrument inputs, and stereo AUX input

■Loop Recording Examples





RC-300 LOOP STATION

USB AUDIO

The Triple-Stereo Mega Looper



■ Built-in Loop Effects

TRANSPOSE	Transposes the sound when you turn the effect on.
FLANGER	Produces a metallic resonance reminiscent of a jet airplane taking off and landing.
PHASER	Gives the sound a swishing quality by adding a phase-shifted sound.
PAN	Moves the stereo position (pan).
TREMOLO	Cyclically modulates the volume.
SLICER	Repeatedly cuts the sound, transforming a conventional sound to create the impression of a rhythmic backing.
BEND	Produces pitch-up/pitch-down effects that can't be created using a guitar's tremolo arm.
CHORUS	Adds a slightly modulated sound to the direct sound, creating beautifu spaciousness and depth.
ROBOT	Adds robot-like qualities to the voice.
FEMALE	Makes the voice more feminine.
MALE	Makes the voice more masculine.
GT->BASS	Transforms a guitar sound into a bass sound.
FILTER	A filter with an extremely steep slope (a steep cutoff).
DELAY	Adds a delayed sound to the direct sound, giving the sound greater depth or creating special effects.
LO-FI	This effect intentionally degrades the sound to create a distinctive character.
DISTORTION	Distorts the sound to produce long sustain.

- Up to three hours of stereo recording and 99 onboard memories
- Three stereo tracks with dedicated footswitches and controls for each
- Dedicated fader per track
- 16 onboard effects optimized for looping
- Expression pedal for effects control in real time
- XLR microphone input with phantom power AUX IN jack for recording audio from your MP3 player ● USB storage; import/export WAV files













Audio Plave



Stereo 2-Track Looper with Effects and **Support for Battery Power**



■ Built-In L	.oop Effect
BEND DOWN	This effect bends the pitch down rapidly.
STEP PHASER	This phaser varies the tone in a step-wise fashion.
SWEEP FILTER	This effect varies the frequency in sync with the tempo.
TEMPO DELAY	Tempo-synced delays.
Lo-Fi	Unique lo-fi effect.

- Up to three hours of stereo recording time and 99 onboard memory phrases
- Two synchronized stereo tracks with true stereo I/O
- USB port allows you to connect to a PC and import/export WAV audio
- Built-in effects for processing loops
- MIC IN jack for recording voices and instruments
- AUX IN jack for recording audio from your MP3 player
- Runs on batteries or optional AC power supply



State-of-the-Art Looper in a **Compact Body**

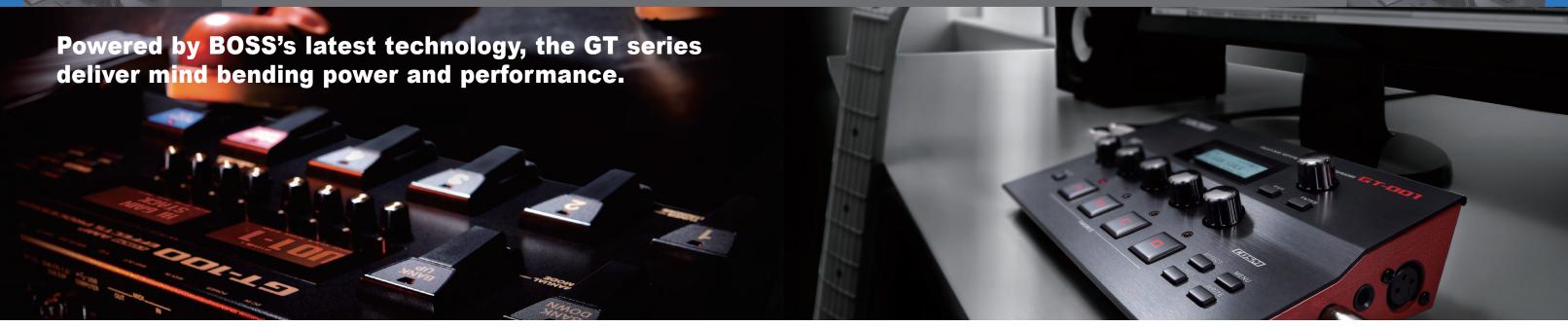


- Compact and powerful stereo stompbox looper
- Up to three hours of stereo recording time and 99 onboard memory phrases
- USB port allows you to connect to a PC and import/export WAV audio
- AUX IN jack for recording audio from your MP3 player

 Rhythm guide with real drums • Runs on a single 9-volt battery or optional AC power supply















Version 2.0: Full Power for Stage and Studio



- Advanced COSM amps that model vintage classics and deliver never-before-heard tones
- Two new amp models: BGNR UB Metal and ORNG Rock Reverb
- New MDP effects powered by innovative BOSS technology: Tera Echo, Overtone, and A-DIST
- BOSS TONE STUDIO editor/librarian for Mac/Windows and custom patches available at bosstonecentral.com
- Advanced Amps excel in not only cloning classic amps, they also provide a new world of unimagined tone by delivering ultra-natural sounds considered to be physically impossible with existing amps • Vintage Amp mode reproduces 19 different types of masterpiece amps • A/B Channel Divider for creating dual amp and effects chains that can be blended together or toggled by footswitch, frequency, or picking strength

 Monophonic guitar-to-MIDI conversion from normal 1/4-inch guitar input ● Enhanced USB audio/MIDI interface with multi-channel operation for flexible recording and efficient re-amping

 Equipped with Phrase Loop function Polyphonic tuner function





● With its dual LCD display, the GT-100 puts you in direct contact with the editing functions you need without having to switch screens. You can control the parameters on the right-side creen while viewing the audio routings on the left screen. The large LCD offers



 The EZ Tone function makes complex editing fast and easy. Patch Create node lets you design sounds based on nusical genres and song concept. Amp Customize and OD/DS Customize let you tweak the characteristics of your amp and overdrive/distortion to your



 Step on the new Accel pedal and modulate your sound dynamically in real time. The pedal enables real-time control of multiple parameters simultaneously, as vell as time-variant effects such as eedbacker, S-Bend, Twist, etc.; Laser eam and Warp add extreme effects that

GT-001



Flagship GT Power on Your Desktop



- Pro-level sound for recording and jamming
- BOSS' top-of-the-line COSM amps and effects equivalent to the GT-100 Version 2
- Advanced multi-channel USB audio/MIDI interface for flexible recording and efficient re-amping
- BOSS TONE STUDIO editor/librarian for Mac/Windows and custom patches available at bosstonecentral.com
- Panel knobs for adjusting sounds and dedicated buttons for calling up favorite tones • Newest MDP effects powered by innovative BOSS technology: Tera Echo, Overtone, and A-DIST ●XLR mic input with phantom power; specially designed effects patches for vocals and acoustic guitars • 1/8-inch input for connecting a stereo device such as a smart phone or music player ● Monophonic guitar-to-MIDI conversion from normal 1/4-inch guitar input • Jack for connecting an expression pedal or up to two footswitches for real-time effects control and patch changes

 Powered by USB bus or included AC adaptor





A Powerful Tool for DAW Music Production

Via a single USB cable, the GT-100 Ver.2/GT-001 functions as a high-quality audio interface for your Mac or Windows computer. It's easy to capture great amp and effects tones directly into your DAW, and four audio channels provide lots of flexibility for recording, re-amping, and mixing. For example, you can listen to the GT's amps and effects while capturing an unprocessed signal in your DAW, simultaneously record processed and dry tones on separate tracks, and listen to your mix while re-amping and adjusting guitar tones through GT-100 Ver.2/GT-001.





PREAMP				
ADVANCED	VIN	TAGE	CUSTOM	ı
NATURL CLEAN	JC-120	MS1959 I		Γ
FULL RANGE	CLEAN TWIN	MS1959 I+II		ı
COMBO CRUNCH	PRO CRUNCH	R-FIER VINTAGE		ı
STACK CRUNCH	TWEED	R-FIER MODERN		ı
HIGAIN STACK	DELUX CRUNCH	T-AMP LEAD		ı
POWER DRIVE	VO DRIVE	SLDN		ı
EXTREM LEAD	VO LEAD	5150 DRIVE		ı
CORE METAL	MATCH DRIVE	BGNR UB Metal		ı
	BG LEAD	ORNG Rock Reverb		ı

Effect List	t					
EFFECT		OD/DS			FX1/FX2	
COMP	ADVANCED	VINTAGE	CUSTOM	T. WAH	DEFRETTER	ROTARY 1
OD/DS	MID BOOST	BLUES OD		AUTO WAH	WAVE SYNTH	ROTARY 2
PREAMP	CLEAN BOOST	OD-1		SUB WAH	SITAR SIM.	UNI-V
EQ	TREBLE BST	T-SCREAM		ADV. COMP	OCTAVE	PAN
FX1	CRUNCH	TURBO OD		LIMITER	PITCH SHIFTER	SLICER
FX2	NATURL OD	DIST		SUB OD/DS	HARMONIST	VIBRATO
DELAY	WARM OD	RAT		GRAPHIC EQ	OVERTONE*	RING MOD.
CHORUS	FAT DS	GUV DS		PARA EQ	SOUND HOLD	HUMANIZER
REVERB	LEAD DS	DST+		TONE MODIFY	AC.PROCESSOR	2X2 CHORUS
	METAL DS	METAL ZONE		GUITAR SIM.	PHASER	SUB DELAY
	OCT FUZZ	'60S FUZZ		AC.GUITAR SIM	FLANGER	TERA ECHO*
	A-DIST	MUFF FUZZ		SLOW GEAR	TREMOLO	









The Top Choice for Live Performance



- Compact and powerful floor multi-effects with a simple knob-based interface
- Includes a massive selection of top-quality effects, from classic BOSS stomps to the latest MDP effects
- Updated flagship-level COSM amps derived from the GT-100
- Free BOSS TONE STUDIO software allows you to edit and organize tones on your computer, and also preview and download free patches directly from the BOSS TONE CENTRAL website
- Eight simultaneous effects categories, each with multiple effects types Dial up tones with the ease of using your favorite stompboxes • Eight multifunction footswitches and expression pedal • Manual mode for stompbox-style on/off; Memory mode for switching complete patch setups ● Phrase Loop function with 38 seconds of recording ● Runs on six AA batteries or optional PSA-series AC adaptor ● USB audio/MIDI interface built in ● Free BOSS TONE STUDIO software allows you to edit and organize tones on your computer, and also preview and download free patches directly from the BOSS TONE CENTRAL website













Powerhouse FX with Stompbox Simplicity



- SOUND LIBRARY provides extensive collection of ready-to-use tones
- Powerful COSM amp models onboard, from classic to contemporary
- SUPER STACK adds immensely heavy low-end and punch
- Phrase Loop function with 38 seconds of recording time
- Functions as a USB audio interface. Cakewalk SONAR LE software available
- Select a performance category and a variation; simple steps let you find the perfect sound quickly
- Six categories with 10 variations each for a total of 60 powerful sounds Runs on six AA batteries or optional AC adaptor





GT-10B BASS MULTIPLE EFFECTS

ASIO USB AUDIO



Top-of-the-Line Bass Station



- Optimized for bass, with essential effects such as OD/DS, Comp/Limiter
- COSM bass amps provides top-quality sounds without sacrificing richness and bottom of the bass tone
- EZ Tone enables intuitive tone creation by using an interactive user interface based on graphic icons
- Phrase Loop allows instant sound-on-sound loop creation
- Parallel Chain offers two separate effects paths that can be blended, switched by playing dynamics, or with the onboard pedals

 USB capability offers audio- and MIDI-streaming in real time • Comes equipped with XLR outputs as well as 1/4-inch jacks



ME-50B BASS MULTIPLE EFFECTS





Floor-Based Bass Multi-Effects Processor with Easy Control



- Powerful COSM Compressor/Limiter and EQ
- Get creative with Filter/Tone and Drive/Synth features
- High-quality Delay/Modulation and powerful Pedal FX
- Innovative Sound Hold function for sustaining a low note while playing on top Sound On Sound recording with new Kick Drum effect for keeping time

 Dedicated knobs for each effect section—no menu-surfing! ● Easy Tone effects with Preset EQ templates for quick tone editing



IME-20B



Performance-Based Effects for Bass



- A wide variety of effects for bass, including compressor, distortion, T-Wah, chorus, delay, defretter, synth, and more
- EZ EDIT lets you create sounds quickly and intuitively
- BASS ENHANCE function for instant presence boost
- Easy-to-use interface with BOSS tone and quality Unique effects such as Synth, Octave, Defretter, and more ●30 user memory locations

 AUX IN allows jamming with an audio player ● Battery or AC powered ● Built-in tuner





Unlimited Sonic Possibilities





GP-10GK: Includes a GK-3 divided pickup and GK cable GP-10S: Comes with the GP-10 only. *Requires GK-3 divided pickup and GK cable if you want to use all the features of the GP-10.



A universe of amazing tones and tunings at your command, all in one compact processor that's affordable and easy to use



- Instrument modeling powered by COSM technology, including conventional electric, acoustic, and bass guitars, plus sitar, banjo, fretless guitar, and others
- Instant access to down tunings, open tunings, 12-string sounds, and your own
- Analog guitar synthesizer modeling driven by real-time DSP allows you to play expressive, ultra-responsive synth tones
- High-quality COSM amps and multi-effects derived from the GT-100
- 13-pin input for guitars equipped with a Roland GK-3 Divided Pickup or other GK-compatible pickup
- Standard 1/4-inch guitar input allows for use of amps and effects with any guitar
- USB audio/MIDI interface for multi-channel audio recording (including individual string output) and guitar-to-MIDI conversion with GK pickup
- BOSS TONE STUDIO editor/librarian for Mac/Windows and custom patches available at bosstonecentral.com

A World-Class Collection of Classic Guitars, Synths, and More

With a Roland GK-compatible pickup on your guitar, the GP-10 lets you transform your sound into numerous classic electric and acoustic guitar types, basses, sitar, and even analog-modeled synths, including the legendary Roland GR-300. In addition, "Poly FX" deliver unique sounds allowing you to take your playing into exciting new



Instantly Change Your Guitar's Tuning

Using a GK-compatible pickup, the GP-10 allows you to change your guitar's tuning with the press of a pedal. There's no need to change instruments or manually re-tune for different songs or styles—just dial up the tuning you need in the GP-10 and go. Play slide in open tunings like G and E, enjoy shimmering 12-string tones, or drop your entire guitar down in semitone steps for massive, ultra-heavy riffs. There are many tuning presets to choose from, and you can also create your own customized tunings for any application.



GK-3 Divided Pickup

A slim, divided pickup for sending individual signals from each guitar string to GK compatible devices



You can attach the GK pickup to the end pins of your



Natural, Ultra-Responsive COSM Amps and Multi-Effects

The versatile GP-10 also functions as a full-featured multi-effects processor for both GK and normal pickups, giving you a huge selection of COSM amps and effects for live playing and studio recording.



USB Audio/MIDI Interface Built In

With a GK-equipped guitar, you can record the audio output of each of your guitar's strings on separate tracks, either processed with the GP-10 or captured dry for later processing. When you record unprocessed sounds in this way, you have the ability to not only re-amp the tracks through the GP-10's amps, but to "re-guitar" as well, using the GP-10's instrument modeling to change the sound to anything you want after the fact. The guitar-to-MIDI function allows you to stretch your creativity even further, using your guitar to play soft synths, capture MIDI sequences, and input MIDI data into notation software on your computer.





















BOSS TONE STUDIO

BOSS TONE STUDIO incorporates three convenient functions; 'Automatic Downloading of Additional Tones (Live Sets)', 'Tone Edit Functions', and 'Tone Library Functions'. These functions are easily available by downloading and installing the application on your PC/Mac.





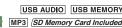


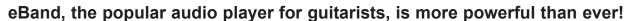






Choose





- Plug in and jam ... it's that easy
- eBand can store and play back up to 4,000 WAV or MP3 files
- The included SD card is loaded with backing tracks over 350 songs
- Equipped with authentic GT-100-class COSM amp and BOSS effects
- Two inputs allow dual-musician jams
- 2.1-channel sound system with subwoofer delivers powerful sound

■ Plug in and start jamming right on the spot. Experience live-performance power with dynamic 2.1-channel sound!

Jam along with hundreds of onboard songs. eBand JS-10 is self contained and small but fills the room with full-range sound from its 2.1 sound system and pro BOSS effects. Rock your living room or bedroom as if you're on a concert stage.





eBand's internal subwoofer delivers powerful

■ Capable of storing up to 4,000 of your favorite songs.

The eBand Song List Editor application lets you import songs from your CDs or audio files via your PC. Store up to 4,000* of your favorite songs and jam along with your own custom library.

*eBand Supports SDHC memory cards up to 32GB.

Supported operating systems: •Windows * XP SP3 or later / Vista* SP2 or later / 7 •Mac OS X v10.4.3 or later / v10.5 / v10.6 / v10.7

Over 350 high-quality backing tracks included.

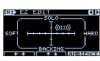
eBand is pre-stocked with over 350 backing tracks optimally suited for guitar playing, from simple 3-chord songs to full arrangements.

A wide range of genres is onboard — from rock and blues to jazz, Latin, country, and more. Also included are variations for bass, as well as for bass + guitar jams.

Pro BOSS effects built in.

Get creative with the awesome BOSS effects built into eBand JS-10 (equivalent in quality to the flagship GT-100), including a coveted collection of COSM guitar amps. You can easily customize the amps and effects to create your own unique sounds. Design your sounds in detail, or skip menus of setup options and jump to the EZ Edit mode. In the EZ Edit mode, just choose a music genre and a preset tone, and then steer the pointer on the matrix table until you find the right sound. Each song can store its own effect settings, so all you have to do is select the song and play.





EZ Edit lets you quickly and intuitively

Connect

Enjoy jams with your family and friends in combinations such as twin guitar, guitar + bass, or guitar + vocal. Since eBand lets you assign individual effects to each input, you can dial up custom sounds for each musician.

Dual input channels let two musicians iam together.



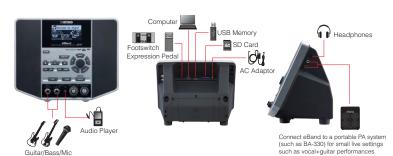
Jam along

Recording your performance is a snap.

To capture your jams digitally, simply press the REC button anytime you wish. The Preview function lets you check your recording without actually saving it as a file. This is a handy feature when you want to re-record your takes multiple times. eBand also has features to assist you in practicing, such as Center Cancel for "minus-one" style play along, an AB repeat function for looping a particular part of a song, a speed variation feature for changing the tempo without changing the pitch, and pitch variation feature for changing key signature without changing tempo.

■ USB and AUX IN jacks expand creativity.

In addition to its many cool play-along features, eBand can also be used as a USB audio interface. This means you can record your eBand jams into your favorite computer DAW program. Conversely, you can mix the playback from your computer with your live performance and record it into eBand. You can also use eBand as a real-time USB streaming mixer, and as a player of audio files* stored on USB memory. eBand's AUX IN jack allows easy connection to an external audio player. *WAV and MP3 formats supported.

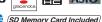


IMICRO BR BR-80









The ultimate new portable recording and jam-along tool for guitarists



64 V-Tracks and eight simultaneous playback tracks • eBand function for phrase training and play-along tracks World-class COSM amps and effects onboard USB audio interface onboard

Live Rec

Cakewalk SONAR LE available for free

Three modes: MTR (multi-track recorder), eBand, and



eBand mode for phrase training and play-along sessions



Record your band performances or ideas



Create fully produced



Check all settings for a single track with simple











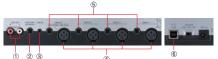
USB AUDIO SD Memory Card Included

For Guitarists, for Vocalists, the Hands-on Music-Production Solution

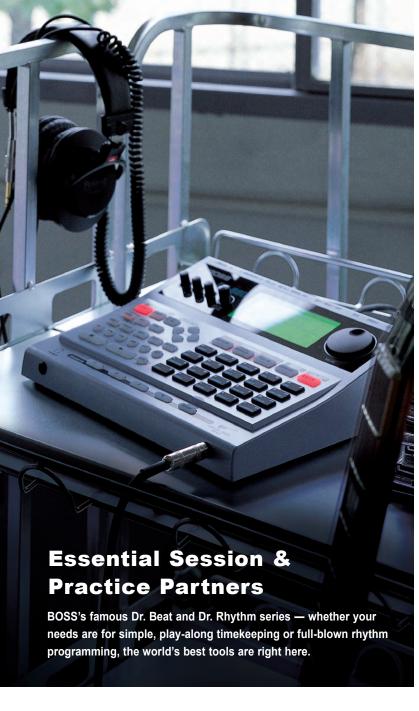


BOSS CLEAN	DELUX CRNCH	VO CLEAN	MS1959 I	T-AMP LEAD	BOSS METAL	CONCERT 810
JC-120	BOSS CRNCH	MATCH DRIVE	MS1959 I+II	T-AMP CRNCH	5150 DRIVE	BASS 360
JAZZ COMBO	BLUES	FAT MATCH	MS HIGAIN	T-AMP CLEAN	METAL LEAD	T.E.
FULL RANGE	WILD CRNCH	MATCH LEAD	MS SCOOP	BOSS DRIVE	EDGE LEAD	SESSION
CLEAN TWIN	STACK CRNCH	BG LEAD	R-FIER VNT	SLDN	SUPER FLAT	AC BASS
PRO CRNCH	VO DRIVE	BG DRIVE	R-FIER MDN	LEAD STACK	FLIP TOP	
TWEED	VO LEAD	BG RHYTHM	R-FIER CLN	HEAVY LEAD	B MAN	

- 4-track simultaneous recording, 8-track simultaneous playback plus dedicated rhythm track
- EZ Recording interactively guides through the recording process
- Powerful guitar, bass, and vocal effects derived from BOSS's flagship processors
- Song Sketch recording for quick stereo capture in WAV format
- Built-in advanced drum machine with editor software Loop Recording function a convenient tool for songwriting ●Functions as a USB audio interface and DAW control surface ●Cakewalk SONAR LE software available for free ● Built-in stereo condenser microphone ● Runs on six AA batteries/USB bus



① LINE OUT Jacks (BCA phono type) ④ INPUT Jacks (XLR)



DR-880 Dr. Rhythm

USB USB

World's Best Rhythm Machine



- 440 world-class drum and percussion sounds, 40 bass sounds
- EZ Compose allows complex patterns to be constructed without note-by-note programming
- Guitar/bass input, plus multi-effects and COSM amp models
- Three independent insert effects (EQ and compression), TSC featuring dynamics and high-quality ambience ●1,000 patterns (500 preset, 500 user); easily add fills, ghost notes, chord progressions and more Digital and individual outputs; USB port for importing SMFs

DR-3 Dr. Rhythm





Your Own Personal Drummer



- BOSS' most affordable drum machine for jamming or practice
- Realistic drum, percussion and bass sounds with velocity-sensitive pads
- Rhythm Progressions with 3 variations each for Intro, Verse, Fill and Ending
- TSC with Sound Shape function and Ambience for professional drum sounds
- ●100 preset styles and 100 user styles programmable via realtime or step recording ●TSC with Sound Shape function and Ambience for professional drum sounds . Footswitch input for easy live control; runs on battery power or optional AC adaptor

DB-90 Metronome Dr. Beat



IDB-60 Metronome Dr. Beat

More Than Just a Metronome





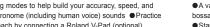


The Take-Along Timekeeper



● Quick rhythm customizing with Note Mixing function ● Rhythm Coach features four training modes to help build your accuracy, speed, and endurance ●4 metronome (including human voice) sounds ● Practice with the Rhythm Coach by connecting a Roland V-Pad (optional)

Direct connection with guitar and bass, plus headphone monitoring



- ●Note-Mixing function lets you create new rhythms quick and easy A variety of rhythm patterns such as 8-beat grooves, waltz. bossanova, and more Tap Tempo, Timer, and Stopwatch functions
- Standard Pitch function for tuning instruments

- ●Portable, ruggedly built, and packed with fun play-along patterns
- 24 beat variations with complex beats, and 9 rhythm patterns including "CLAVE" ●Large LCD with smooth tempo meter
- Tap-tempo feature 12 internal chromatic reference tones ●Convenient Phones jack and Auto Power-Off function

IBCB-60 Pedal Board



● Lightweight and tough pedal board for transporting a range of compact pedals and effects ● Padded interior can be customized to fit anything from a compact pedal to Twin Pedal • Onboard AC adaptor for powering up to 7 devices; includes all cabling

● Power Supply DC 9 V: AC Adaptor ● Dimensions 670 (W) x 370 (D) x 100 (H) mm (26-7/16" x 14-5/8" x 3-15/16") ● Weight 3.8 kg/8 lbs 7 oz Accessory AC Adaptor, Pre-cut Insert x 3, Spare Insert x 1, 8-pin Parallel DC Cord, L-L Cable (short) x 5, L-L Cable (long) x 3

IBCB-30 Pedal Board





 Holds up to three BOSS compact pedals
 Comes with audio cables for connection between pedals • Comes with parallel DC cord to power three compact pedals (with optional AC adaptor: PSA-series)

● Dimensions 330 (W) x 300 (D) x 81 (H) mm (13" x 3-3/16" x 11-13/16") ● Weight 1.2 kg/2 lbs 11 oz ● Accessory 4-pin Parallel DC Cord. L-L Cable (130 mm) x 2 Option AC Adaptor (PSA se

IBA-BR805 Silicone Case/Pouch Set for BR-80



•Made of soft silicone rubber, this case guards against dirt and scratches, and keeps the MICRO BR BR-80 from slipping on smooth

IFS-5U Footswitch

DI-1 Direct Box

surfaces Custom pouch is also cushion-lined to absorb impact





● A metal-cased momentary "unlatch"-type footswitch ● Can be connected using an ordinary guitar cable

 High-quality direct box with crystal-clear sound for transforming high-impedance, unbalanced instrument outputs to the low-impedance, balanced inputs of a mixing console

● Frequency Response 20 Hz to 40 kHz (+0.5/-1 dB) ● Nominal Input Level -20/0/+20

dBu (selectable) Max. Input Level +45 dBu (1 kHz), 390 Vp-p Max. Output Level

+8 dBu (Balanced: 600 O load, Unbalanced: 50 kO) Residual Noise -110 dBu or less

(IHF-A) ● Total Harmonic Distortion 0.05 % or less ● Current Draw 6 mA ● Power

● Dimensions 97 (W) x 125 (D) x 46 (H) mm (3-13/16" x 4-15/16" x 1-13/16") ● Weight

Supply DC 9 V: Dry Battery <6F22/6LR61 type>, Phantom Power 24 V to 48 V DC

F5-6 Dual Footswitch



- ●Combines latch- and momentary-type switching into one unit
- Each footswitch can be assigned latch- or momentary-type
 Can be connected to other footswitches (FS-5L/FS-5U/FS-6/AB-2)

IFS-5L Footswitch



- A metal-cased latch-type footswitch with a LED to indicate status
- Can be connected with a standard guitar cable

IRH-300 Stereo Headphones



 Roland's top-of-the-line headphones for the ultimate in sound quality Newly developed driver provides ultra-wide frequency range Snug fit shuts out external sound

IAB-2 2-way Selector



 Affordable A/B selector with 1-click operation and silent switching •2-way selector for using A/B input with one output, or vice-versa •Instantly change guitars, effects setups or amplifiers, or switch between an amp and tuner

EV-5 Expression Pedal

■Roland

•Can be used to control a range of functions and effects parameters in real time . Compact, travel-friendly body fits perfectly onto guitar

IPCS-20A 8-pin Parallel DC Cable Roland



IMSC-50/25/15 MIDI Cables Roland

IPCS-31L Audio Cable

Stereo 1/4" ↔ 2 x 1/4"; 2.2 m

IPSA-series

AC Adaptor

Roland

		Input Impedance
Twin Pedal Specifications] y Battery <aa type=""> x 6, AC Adaptor</aa>	Nominal Output Level
	8 (D) x 57 (H) mm (6-13/16" x 6-1/4" x 2-1/4")	Output Impedance
DD-20	P10	Number of Memory
Memories	4	Effect Types Number of Harmony Ty
Nominal Input Level	GUITAR/BASS: -20 dBu, GUITAR AMP SEND/RETURN: +4 dBu	
Nominal Output Level	GUITAR/BASS: -20 dBu, GUITAR AMP SEND/RETURN: +4 dBu	Power Supply
Current Draw	200 mA	Current Draw
Weight Accessories	1.2 kg/2 lbs 11 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6</lr6>	Dimensions Weight
Option	AC Adaptor (PSA series)	Accessories
RE-20	P10	Options
Nominal Input Level	-20 dBu (INPUT VOLUME knob: center), max +4 dBu	■VE-5
Nominal Output Level Current Draw	-20 dBu 75 mA	Nominal Input Level
Weight	1.2 kg/2 lbs 11 oz (incl. batteries)	Input Impedance
Accessories	Dry Battery <r6 (aa)="" type=""> x 6</r6>	Nominal Output Level Output Impedance
Options	AC Adaptor (PSA series), Expression Pedal (Roland EV-5)	Memory
SL-20	P10	Effect Types
Nominal Input Level Nominal Output Level	-20 dBu -20 dBu	Phrase Loop
Current Draw	110 mA	Power Supply
Weight Accessories	1.1 kg/2 lbs 7 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6</r6>	Current Draw
Options	AC Adaptor (PSA series), Expression Pedal (Roland EV-5)	
RT-20	P10	Dimensions
Nominal Input Level	-20 dBu	Weight
Current Draw	85 mA	-
Weight Accessories	1.1 kg/2 lbs 7 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6</r6>	Accessories
Option	AC Adaptor (PSA series)	Options
TU SERIES		■VE 20
I O SERIES		VE-20 Nominal Input Level
TU-10	P11	Nominal Output Level
Reference Pitch Tuning Range	A4 = 436 to 445 Hz C0 (16.35 Hz) to C8 (4,186.0 Hz)	Memory
Tuning Accuracy	±1 cent	Power Supply
Display Mode Flat Tuning	Cent display, Stream display	Current Draw Dimensions
Power Supply	Regular to 5 semitone lower Lithium Battery <cr2032></cr2032>	Weight
	<color display="" mode="">: 12 mA <monochrome display="" mode="">: 4 mA, Expected battery life under continuous use</monochrome></color>	Accessories Option
Current Draw Dimensions Weight	<color display="" mode="">- Approximately 12 hours - Approximately 24 hours">- Approximately 24 hours *This figure will vary depending on the actual conditions of use. 73 (W) x 33 (D) x 62 (H) mm (2-7/8" x 1-5/16" x 2-1/2") 45 g/2 oz</color>	AD SERIES
Accessory	Lithium Battery <cr2032></cr2032>	Nominal Input Level Nominal Output Level
TU-3	P9,P11	Tuner Reference Pitch
Reference Pitch	A4 = 436 to 445 Hz	Tuning Accuracy
Tuning Range	C0 (16.35Hz) to C8 (4,186.0 Hz) DC 9 V: Dry Battery <6F22/6LR61 type>,	Power Supply
Power Supply	AC Adaptor (PSA series: Optional)	Current Draw Dimensions
Current Draw Dimensions	30 mA (High Brightness mode: 85 mA) 73 (W) x 129 (D) x 59 (H) mm (2-7/8" x 5-1/8" x 2-3/8")	Weight
Weight	390 g/14 oz (incl. battery)	Accessories Option
Accessory	Dry Battery <6F22 type>	
TU-12EX	P11	AD-3
Reference Pitch Tuning Range	A4 = 438 to 445 Hz E0 (20.6 Hz) to C8 (4,186.0 Hz)	Nominal Input Level Nominal Output Level
Tuning Kange Tuning Accuracy	±1 cent	Power Supply
Power Supply	DC 3 V: Dry Battery <r03 (aaa)="" lr03="" type=""> x 2, DC 9 V: AC Adaptor (PSA series: Optional)</r03>	Current Draw
Current Draw	12 mA	Dimensions Weight
Dimensions Weight	148 (W) x 54 (D) x 24 (H) mm (5-13/16" x 2-1/8" x 1") 138 q/5 oz	Accessories
Accessories	Dry Battery <r03 (aaa)="" type=""> x 2, Soft Case</r03>	Option
TU-12BW	P11	
Reference Pitch	A4 = 438 to 445 Hz	LOOP STA
Tuning Range	E0 (20.6 Hz) to C8 (4,186.0 Hz)	RC-505
Tuning Accuracy	±1 cent DC 3 V: Dry Battery <r03 (aaa)="" lr03="" type=""> x 2,</r03>	
Power Supply Current Draw	DC 9 V: AC Adaptor (PSA series: Optional) 12 mA	Nominal Input Level
Dimensions	12 mA 148 (W) x 54 (D) x 24 (H) mm (5-13/16" x 2-1/8" x 1")	Input Impedance
Weight	205 g/8 oz	Nominal Output Level Output Impedance
Accessories	Dry Battery <r03 (aaa)="" type=""> x 2, Piezo Microphone, Soft Case, Holder</r03>	Recommended Load Impe
TU-88	B44	Recording/Playback
Reference Pitch	P11 A4 = 435 to 446 Hz	
Tuning Range	E0 (20.6 Hz) to C8 (4,186.0 Hz)	Rhythm Type Display
Tuning Accuracy	±1 cent DC 9 V: Dry Battery <6F22/6LR61 type>,	USB
Power Supply	DC 9 V: AC Adaptor (PSA series: Optional)	Power Supply
Current Draw Dimensions	30 mA 140 (W) x 80 (D) x 30 (H) mm (5-9/16" x 3-3/16" x 1-3/16")	Current Draw
Weight	190 g/7 oz (incl. battery)	Dimensions
Accessory	Dry Battery <6F22 type>	Weight
TU-80	P11	Accessory Options
Reference Pitch	A4 = 435 to 446 Hz	
Tuning Range Power Supply	E0 (20.6 Hz) to C8 (4,186.0 Hz) DC 3V: Dry Battery <r6 (aa)="" lr6="" type=""> x 2</r6>	RC-300
Current Draw	3 mA (Metronome mode), 8 mA (Tuner mode)	Nominal Input Level
Dimensions	122 (W) x 68 (D) x 21 (H) mm (4-13/16" x 2-11/16" x 7/8") 117 g/5 oz (incl. batteries)	Input Impedance
Weight		Nominal Output Level

/OCAL PEF VE-2	P12
Nominal Input Level	MIC IN: -40 dBu (MicSens = Center), GUITAR IN: -10 dBu
nput Impedance	MIC IN: 4 kΩ, GUITAR IN: 1 MΩ XLR OUT: -40 dBu, PHONES/LINE: -20 dBu,
Nominal Output Level Output Impedance	GUITAR THRU: -10 dBu XLR OUT: 600 Ω, PHONES/LINE: 33 Ω
Number of Memory	3
Effect Types lumber of Harmony Types	HARMONY, ECHO, ENHANCE s 12 x 2 (VARIATION)
ower Supply	DC 9V: Rechargeable Ni-MH battery <hr6(aa)type> x 4 Alkaline battery <lr6(aa)type> x 4, AC Adaptor (PSA series)</lr6(aa)type></hr6(aa)type>
Current Draw	200 mA Max. (9 V)
Dimensions Veight	156 (W) x 116 (D) x 64 (H) mm (6-3/16" x 4-5/8" x 2-9/16") 600 g/1 lb 6 oz (incl. batteries)
Accessories Options	Alkaline Battery <lr6(aa)type> x 4 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6)</lr6(aa)type>
VE-5 Nominal Input Level	MIC IN: -40 dBu (Mic Sens = 40), AUX IN: -20 dBu
nput Impedance	MIC IN: 4 kΩ AUX IN: 22 kΩ
Nominal Output Level Output Impedance	XLR OUT: -40 dBu PHONES/LINE: -20 dBu XLR OUT: 600 Ω PHONES/LINE: 33 Ω
Memory	Sound: 50
Effect Types	DYNAMICS, PITCH CORRECT, TONE/SFX, DOUBLE/HARMONY, DELAY, REVERB
Phrase Loop	38 sec. (Mono only) DC 9V: Rechargeable Ni-MH Battery
Power Supply	<hr6 (aa)="" type=""> x 4 or Alkaline <lr6 (aa)="" type=""> x 4, AC Adaptor (PSA series: Optional)</lr6></hr6>
Current Draw	190 mA Max. (9 V)
Dimensions	178 (W) x 108 (D) x 55 (H) mm (7-1/16" x 4-1/4" x 2-3/16"), 178 (W) x 159 (D) x 55 (H) mm (7-1/16" x 6-5/16" x 2-3/16") (including mic stand holder)
Veight	460 g/1 lb 1 oz (incl. batteries), 700 g/1 lb 9 oz (incl. batteries and mic stand holder)
Accessories	Mic Stand Holder, Audio Cable (Stereo miniature phone type, Cable tie attached),
Options	Alkaline Battery <lr6 (aa)="" type=""> x 4 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6)</lr6>
	no πυαμισι (τ οπ series), Fuoiswilli (F3-30, F3-5)
VE-20	40 dRu (Mio Sono = 40)
Nominal Input Level Nominal Output Level	-40 dBu (Mic Sens = 40) -40 dBu, PHONES/LINE: -25 dBu
Memory	Sound 30 (Preset) + 50 (User) DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6,</r6>
Power Supply Current Draw	AC Adaptor (PSA series: Optional)
Dimensions	173 (W) x 158 (D) x 57 (H) mm (6-13/16" x 6-1/4" x 2-1/4"
Veight	1.1 kg/2 lbs 7 oz (incl. batteries)
D SERIES	Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13</lr6>
AD SERIES AD-8 Nominal Input Level	AC Adaptor (PSA series) P1:
AD-8 Idominal Input Level Input Reference Pitch	AC Adaptor (PSA series) P13 -20 dBu -20 dBu A4 = 438 to 445 Hz
AD-8 Nominal Input Level Younger Reference Pitch Tuning Accuracy	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6,</r6>
AD-8 Nominal Input Level Voominal Output Level Funer Reference Pitch Funing Accuracy Power Supply	P1: -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents
AD SERIES AD-8 Nominal Input Level Young Accuracy Power Supply Current Draw Dimensions	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8")</r6>
AD SERIES AD-8 ADminal Input Level dominal Output Level funing Accuracy ower Supply Current Draw Dimensions Veight	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA</r6>
AD SERIES AD-8 Nominal Input Level Nominal Output Level Tuning Accuracy Power Supply Current Draw Dimensions Weight Accessories	P13 -20 dBu -20 dBu -20 dBu 4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1,9 kg/H bb 4 oz (incl. batteries)</r6>
AD-8 Nominal Input Level Voominal Output Lev	P13 -20 dBu -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/l 4bs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series)</r6></r6>
AD-8 Nominal Input Level Nominal Output Level Former Reference Pitch Funing Accuracy Fower Supply Current Draw Dimensions Weight Accessories Option AD-3 Nominal Input Level	P13 -20 dBu -20 dBu -20 dBu 44 = 438 to 445 Hz 3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/H bs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series)</r6></r6>
AD-8 Nominal Input Level Nominal Output Level Foreign Schools Nominal Output Level Foreign Schools Nominal Output Level Nominal Output Level Nominal Output Level Nominal Input Level Nominal Output Level	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8* x 7-1/8* x 2-3/8*) 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series)</r6></r6>
AD SERIES AD-8 Iominal Input Level Iominal Output Level Iominal Cutput Level Iominal Output Level Iominal Input Level Iominal Output Level Iominal	P13 -20 dBu -20 dBu -20 dBu -20 dBu -41 4 38 to 445 Hz -43 cents -43 cents -45 cents -45 cents -46 cAdaptor (PSA series: Optional) -47 cents -48 cents -48 cents -48 cents -49
AD SERIES AD-8 AD-8 AD-8 AD-Individual Input Level AD SERIES AD-8 AD-8 AD-8 AD-8 AD-8 AD-8 AD-8 AD-8	P13 -20 dBu -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13 -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries)</r6></r6></r6>
AD SERIES AD-8 Iominal Input Level Iominal Output Level Iower Supply Iominal Output Level Iower Supply Iower Supp	P13 -20 dBu -20 dBu -20 dBu -20 dBu -20 dBu -40 aNd -4 a 38 to 445 Hz -43 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA -250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/l 4bs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13 -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/l2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6</lr6></r6></r6></r6>
AD SERIES AD-8 Iominal Input Level Iominal Output Level Iower Supply Iominal Output Level Iower Supply Iower Supp	P13 -20 dBu -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13 -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries)</r6></r6></r6>
AD SERIES AD-8 AD-8 AD-Bominal Input Level John Series AD-8 AD-8 AD-1 AD-1 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional)</lr6></r6></r6></r6>
AD SERIES AD-8 Idominal Input Level Idominal Output Idom Idominal Output Idom Idominal Output Level Idominal Output Idom Idominal Input Idom Idomi	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional)</lr6></r6></r6></r6>
AD SERIES AD-8 Nominal Input Level Nominal Output Level Former Supply Current Draw Dimensions Weight AD-3 Nominal Input Level Nominal Output Level Nominal Output Level Nominal Output Level Nominal Output Level Dimensions Weight AD-3 Nominal Input Level Nominal Output Level Dimensions Weight ACCESSORIES Doption COOP STAT RC-505	P13 -20 dBu -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13 -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series)</lr6></r6></r6></r6>
AD SERIES AD-8 AD-8 AD-Bominal Input Level Adminal Output Level AD-3 Adminal Input Level AD-3 Adminal Input Level Adminal Output Level AD-3 AD-3 Adminal Input Level AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) 90 mA ITO (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series)</lr6></lr6></r6></r6></r6>
AD-8 Iominal Input Level Iominal Output Level Iominal Input Level Iominal Input Level Iominal Output Level Iominal Output Level Iower Supply Iurrent Draw Imensions Ivelight Ioccessories Iower Supply Iurrent Draw Imensions Ivelight Ioccessories Iominal Input Level Iominal Output Level Iominal Input Impedance Iominal Output Impedance Iominal Output Level Iominal Input Impedance Iominal Input Level Iominal Input Level Iominal Input Level Iominal Input Level	P13 -20 dBu -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13 -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu F10 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series)</r6></r6></r6></r6>
AD-8 Imminal Input Level on AD-8 Imminal Output Level on AD-8 Imminal Output Level on Accuracy of Accuracy of AD-8 Imminal Output Level on AD-3 Imminal Output Impedance on AD-3 Imminal Output Impedance	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8* x 7-1/8* x 2-3/8*) 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu DC 9 ½ Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4* x 6-3/16* x 2-13/16* 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) 90 mA ITO (W) x 156 (D) x 70 (H) mm (6-3/4* x 6-3/16* x 2-13/16* 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series) ION P12 MIC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -10 dBu (typ.), -4 dBu (max), AUX IN: -20 dBu MIC IN: 4 kΩ, INST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: -10 dBu LINE OUT: -10 dBu</lr6></lr6></r6></r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-Bunial Input Level Volumial Qutput Level Volumial Accuracy Volumial Qutput Level Volumial Accuracy Volumial Accuracy Volumial Accuracy Volumial Accuracy Volumial Series Velight AD-3 Adominal Input Level Volumial Output Level Volumial Output Level Volumial Output Level Volumial Output Level Velight ACC-SO5 ACCOP STAT RC-505 Iominal Input Level Input Impedance Iominal Output Level Volumial Output Level Volumial Input Level Volumial Input Level Volumial Output Level Volumial O	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/6" x 7-1/8" x 2-3/6") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13 -10 dBu -10 dBu -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series) P13 -10 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P15 N Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P16 MIC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -40 dBu (typ.), -40 dBu (max), AUX IN: -20 dBu MIC IN: 4 kΩ, INST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: -10 dBu LINE OUT:</lr6></lr6></r6></r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-Individual Input Level Journal Accuracy Journal Accuracy Journal Accuracy Journal Accuracy Journal Output Level Journal Accuracy Journal Input Level Journal Input Level Journal Input Level Journal Output Level Journal Input Level Journal Input Level Journal Output Level Journal Output Level Journal Output Level Journal Input Impedance Journal Output Level Journal Output Level Journal Impedance Journal Output Level J	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series) ION P14 MIC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -10 dBu (typ.), +4 dBu (max), AUX IN: -20 dBu MIC IN: 4 kG, INST IN: 200 kQ, AUX IN: 22 kQ LINE OUT: 10 dBu LINE OUT: 10 fBu LINE OUT: 10 fBu</lr6></lr6></r6></r6></r6>
AD SERIES AD-8 Nominal Input Level Nominal Output Level Very Cover Supply Current Draw Dimensions Weight ACcessories Diminal Input Level Nominal Output Level Nominal Output Level Nominal Output Level Nominal Output Level Owner Supply Current Draw Dimensions Neight ACCESSORIES	P1: -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P1: -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) ION MIC IN (variable): -40 dBu (typ.), -10 dBu (max), AUX IN: -20 dBu MIC IN: 4 kΩ, NST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: -10 dBu LINE</r6></r6></r6></r6>
ACCESSORIES AD-8 Nominal Input Level Nominal Output Level Power Supply Current Draw Dimensions Neight ACCESSORIES OPTION Neight ACCESSORIES OPTION Neight ACCESSORIES OPTION Neight ACCESSORIES Option AD-3 Nominal Input Level Nominal Output Level Nominal No	P1: -20 dBu -20 dBu -20 dBu -20 dBu -20 dBu -30 dBu -40 438 to 445 Hz -31 cents -32 cents -33 cents -34 conts -35 conts -35 conts -36 conts -37 contents -40 dBu (PSA series: Optional) -120 mA -125 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") -19 kg/4 lbs 4 oz (incl. batteries) -39 by Battery <r6 (aa)="" type=""> x 6 -4C Adaptor (PSA series) P1: -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 (PSA series: Optional) -90 mA -4C Adaptor (PSA series: Optional) -90 mA -70 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" -10 kg/2 lbs 4 oz (incl. batteries) -30 by Battery <r6 (aa)="" type=""> x 6 -4C Adaptor (PSA series) P1: MIC IN (variable): -40 dBu (typ.), -10 dBu (max), -10 kg/2 lbs 4 oz (incl. batteries) -4C Adaptor (PSA series) NST IN (variable): -40 dBu (typ.), -40 dBu (max), -10 kg/2 cod dBu -10 kg</r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-Indian Input Level AD Series AD-8 AD-8 AD-10 AD SERIES AD-8 AD-10 AD SERIES AD-10 AD SERIES AD-10 AD SERIES	P1: -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) 90 mA MIC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -10 dBu (typ.), -4 dBu (max), AUX IN: -20 dBu MIC IN: 4 kΩ, INST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: 10 dBu LINE OUT: 2 kΩ ce LINE OUT: 10 KΩ or greater Maximum Recording Time: Approx. 3 hours (stereo) Maximum Phrase Memory: 99, Number of Tracks: 5, Data Format: WAV (44.1 kHz, 16-bit linear, stereo) 85 16 characters, 2 lines (backlit LCD) Hi-Speed USB (Mass Storage Class), Hi-Speed USB (Mass Storage Class), Hi-Speed USB (Mass Storage Class), Hi-Speed USB (Mass Other) 420 mA</lr6></r6></r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-8 AD-8 AD-8 AD-9 AD SERIES AD-8 AD-9 AD SERIES A	P1: -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA -250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA -170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) ION P14 MIC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -40 dBu (typ.), +4 dBu (max), AUX IN: -20 dBu MIC IN: 4 kΩ, INST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: -10 dBu LINE</r6></r6></r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-8 AD-Individual Input Level dominal Output Level Power Supply Current Draw Dimensions Veight ACCESSORIES Dettion AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3	P1: -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P1: -10 dBu -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series) P1: -10 gBu -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 (By x 76 (H) mm (6-3/4" x 6-3/16" x 2-13/16" x 2-</r6></r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-8 AD-Bornial Input Level dominal Output Level uner Reference Pitch furing Accuracy Power Supply Current Draw Dimensions Weight AD-3 Aominal Input Level dominal Output Level dominal Output Level dominal Output Level power Supply Current Draw Dimensions Weight ACCESSORIES Detroit AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) 90 mA MC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -40 dBu (typ.), +4 dBu (max), INST IN (variable): -40 dBu (typ.), +4 dBu (max), AUX IN: -20 dBu MIC IN: 4 kΩ, INST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: -10 dBu LINE OUT: -10 dB</lr6></r6></r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-Bominal Input Level Journal County Level Journal County Journal County Journal County Journal County Journal Input Level Journal County Journal Input Level Journal County Journal Input Level Journal Input Level Journal County Journal Input Level Journal Output Level Journal Output Level Journal Output Level Journal Output Level Journal Input Level Journal Output Level Journal Outpu	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 (W) x 156 (D) x 70 (H) mm (9-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) ION P14 MIC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -40 dBu (typ.), +4 dBu (max), AUX IN: -20 dBu MIC IN: 4 kΩ, INST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: -10 dBu LINE OUT: -10 dBu</r6></r6></r6></r6>
AD SERIES AD-8 Iominal Input Level Journal Output L	P13 -20 dBu -20 dBu A4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) P13 -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series) ION MIC IN (variable): -40 dBu (typ.), -10 dBu (max), AIX IN: 20 dBu MIC IN: 4 kΩ, NST IN: 200 kΩ, AUX IN: 22 kΩ LINE OUT: -10 dBu LIN</r6></r6></r6></r6>
AD SERIES AD-8 AD-8 AD-8 AD-8 AD-Bornial Input Level dominal Output Level uner Reference Pitch furing Accuracy Power Supply Current Draw Dimensions Weight AD-3 Aominal Input Level dominal Output Level dominal Output Level dominal Output Level power Supply Current Draw Dimensions Weight ACCESSORIES Detroit AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3 AD-3	P13 -20 dBu -4 = 438 to 445 Hz ±3 cents DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 120 mA 250 (W) x 180 (D) x 60 (H) mm (9-7/8" x 7-1/8" x 2-3/8") 1.9 kg/4 lbs 4 oz (incl. batteries) Dry Battery <r6 (aa)="" type=""> x 6 AC Adaptor (PSA series: Optional) -10 dBu -10 dBu -10 dBu -10 dBu -10 dBu -10 y V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) 90 mA 170 (W) x 156 (D) x 70 (H) mm (6-3/4" x 6-3/16" x 2-13/16" 1.0 kg/2 lbs 4 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series) ION MIC IN (variable): -40 dBu (typ.), -10 dBu (max), INST IN (variable): -40 dBu (typ.), +4 dBu (max), INST IN (variable): -40 dBu (typ.), +4 dBu (max), INST IN (variable): -40 dBu (typ.), -40 dBu (t</lr6></r6></r6></r6>

	Maximum Recording Time: Approximately 3 hours (stereo),
Recording/Playback	Maximum Phrase Memory: 99, Number of tracks: 3, Data Format: WAV (44.1 kHz, 16-bit linear, stereo)
ISB Interface	Hi-Speed USB (USB Mass Storage Class), Hi-Speed USB (USB-AUDIO) 7 segments, 2 characters (LED),
Displays	16 characters, 2 lines (backlit LCD) DC 9 V: AC Adaptor
Power Supply Current Draw	320 mA Max. (9 V)
Dimensions Weight	536 (W) x 231 (D) x 76 (H) mm (21-1/8" x 9-1/8" x 3")
weignt Accessories	3.9 kg/8 lbs 10 oz AC Adaptor, USB cap
Options	Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5)
RC-30	P10 P15
Nominal Input Level	P10,P15 MIC IN: -40 dBu (variable), INST IN: -20 dBu, AUX IN: -10 dBu
Nominal Output Level	-20 dBu
Recording/Playback	Maximum Recording Time: Approximately 3 hours, Maximum Phrase Memory: 99 phrases, Number of tracks: 2 Data Format: WAV (44.1 kHz, 16-bit linear, stereo)
USB Interface	Hi-Speed USB mass storage device class
Power Supply	DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional) * Rechargeable Ni-MH batteries cannot be used.</r6>
Current Draw	195 mA Max. (9 V)
Dimensions Weight	173 (W) x 158 (D) x 57 (H) mm (6-13/16" x 6-1/4" x 2-1/4") 1.2 kg/2 lbs 11 oz (incl. batteries)
Accessories	Dry Battery <lr6 (aa)="" type=""> x 6</lr6>
Options	AC Adaptor (PSA series), Footswitch (FS-5U, FS-6)
RC-3	P9,P15
Nominal Input Level Nominal Output Level	INPUT: -20 dBu, AUX IN: -10 dBu -20 dBu
Recording/Playback	Maximum Recording Time: Approximately 3 hours, Maximum Phrase Memory: 99 phrases, Number of tracks: 1
USB Interface	Data Format: WAV (44.1 kHz, 16-bit linear, stereo) Hi-Speed USB mass storage device class
Power Supply	DC 9 V: <6LR61 type>, AC Adaptor (PSA series: Optional)
Current Draw	* Rechargeable Ni-MH batteries cannot be used. 70 mA
Dimensions Weight	73 (W) x 129 (D) x 59 (H) mm (2-7/8" x 5-1/8" x 2-3/8") 450 g/1 lb (incl. battery)
Accessory	Dry Battery <6LR61 type>
Options	AC Adaptor (PSA series), Footswitch (FS-5U, FS-6)
MULTI EFFE GT-100 Ver. AD Conversion	_
DA Conversion	24 bits
Sampling Frequency Program Memories	44.1 kHz 400: 200 (User) + 200 (Preset)
Nominal Input Level	INPUT: -10 dBu, RETURN: -10 dBu, AUX IN: -20 dBu
nput Impedance Nominal Output Level	INPUT: 1 MΩ, RETURN: 100 kΩ, AUX IN: 47 kΩ OUTPUT: -10 dBu/+4 dBu, SEND: -10 dBu
Output Impedance	OUTPUT: 2 kΩ, SEND: 2 kΩ
Displays Power Supply	Graphic LCD (132 x 64 dots, backlit LCD) x 2 DC 9V: AC Adaptor
Current Draw	600 mA
	542 (W) x 271 (D) x 80 (H) mm (21-3/8" x 10-11/16" x 3-3/16"),
Dimensions	Maximum height: 542 (W) x 271 (D) x 102 (H) mm (21-3/8" x 10-11/16" x 4-1/16")
Weight	(21-3/8" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz
Weight Accessories	(21-3/8" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal
Weight Accessories Options	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 o 2 AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5)
Neight Accessories Options	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 o 2 AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5)
Weight Accessories Options GT-001 AD Conversion DA Conversion	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits
Weight Accessories Options GT-001 AD Conversion DA Conversion Sampling Frequency	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method*
Weight Accessories Doptions I GT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu
Weight Accessories Options IGT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz 4.0 Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset)
Weight Accessories Doptions IGT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Nominal Output Level Output Impedance	(21-38' x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: 1 MΩ, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: 1 MΩ, MIC IN: 4 kΩ, AUX IN: 27 kΩ OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, PHONES: -10 dBu
Weight Accessories Options GT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level nput Impedance Nominal Output Level Output Impedance Recommended Load mpedance	(21-38' x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz A.C Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: 1 M0, MIC IN: 40 A, AUX IN: 27 kΩ OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, PHONES: 44 Ω OUTPUT LIMONO, R: 0 kΩ or greater, PHONES: 44 Ω or greater
Weight Accessories Ditions GT-001 AD Conversion DA Conversion DA Conversion Sampling Frequency Patches Nominal Input Level nput Impedance Nominal Output Level Dutput Impedance Recommended Load mpedance	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz A.C Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -4 κΩ, AUX IN: -27 kΩ OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 kΩ or greater, PHONES: 44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) C 94: AC Adaptor or obtained via USB port
Weight Accessories Diptions IGT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level nput Impedance Nominal Output Level Dutput Impedance Recommended Load mpedance Display Power Supply	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: 1-0 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, MIC IN: 4 KΩ, AUX IN: 27 kΩ OUTPUT L/MONO, R: -10 dBu, PHONES: -10 dBu OUTPUT L/MONO, R: 2 kΩ, PHONES: -40 DUTPUT L/MONO, R: 2 kΩ, PHONES: 44 Ω OUTPUT L/MONO, R: 10 kΩ or greater, PHONES: 44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD)
Weight Accessories Options GT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level nput Impedance Nominal Output Level Output Impedance Recommended Load mpedance Power Supply Current Draw Dimensions	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: 4 kΩ, AUX IN: 27 kΩ OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 kΩ or greater, PHONES: 44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) CD 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16")
Weight Accessories Diptions IGT-001 AD Conversion DA Con	(21-36" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 cz 4.0 Kadptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: 1M Q, MIC IN: -40 dBu, AUX IN: 27 kΩ OUTPUT L/MONO, R: -10 dBu, PHONES: -10 dBu OUTPUT L/MONO, R: -10 dBu, PHONES: -40 dBu OUTPUT L/MONO, R: -10 kG or greater, PHONES: 44 Ω or greater Graphic LOD (132 x 32 dots), backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power)
Weight Accessories Diptions IGT-001 AD Conversion DA Con	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz A.C Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: 1 MΩ, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: 1 MΩ, MIC IN: -4 kΩ, AUX IN: 27 kΩ OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 dBu, PHONES: -40 dBu OUTPUT LIMONO, R: -10 kΩ or greater, PHONES: 44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (M) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz
Weight Accessories Options I GT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Nominal Output Level Output Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Options	(21-36" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 cz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: 27 kΩ OUTPUT L/MONO, R: -10 dBu, PHONES: -10 dBu OUTPUT L/MONO, R: -10 dBu, PHONES: -40 dBu OUTPUT L/MONO, R: -10 dBu, PHONES: -40 COUTPUT L/MONO, R: -10 dBu, PHONES: -44 Ω OUTPUT L/MONO, R: -10 kG or greater, PHONES: -44 Ω or greater Graphic LOD (132 x 32 dots), backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/6"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor Dual Footswitch (FS-SU, FS-6), Expression Pedal (FV-500U/500H, Roland EV-5)
Weight Accessories Deptions GT-001 AD Conversion DA Conversion	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, MIC IN: -40 A, AUX IN: 27 kD CUTPUT LMONO, R: -10 BL OFTONES: -10 dBu OUTPUT LMONO, R: -10 BL OFTONES: -10 dBu OUTPUT LMONO, R: -10 bL OFTONES: -10 dBu OUTPUT LMONO, R: 20 dBu, PHONES: -10 dBu OUTPUT LMONO, R: 20 dBu, PHONES: -10 dBu OUTPUT LMONO, R: 20 BB, DFONES: -10 dBu OUTPUT LMONO, R: 20 BB, DFONES: -10 dBu OUTPUT LMONO, R: -10 BL OFTONES: -10 dBu OUTPUT LMONO, R: -10 BB, DFONES: -10 BB
Weight Accessories Dptions GT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Nominal Output Level Dutput Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Dptions ME-80 AD Conversion DA Conversion	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 cz A.C Adaptor, USB Cap Footswitch (FS-SU, FS-S-B), Expression Pedal (FV-500L, FV-500H, Roland EV-S) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -21 dBu GUITAR IN: -11 MQ, MIC IN: -40 MBu, PHONES: -10 dBu OUTPUT LMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LMONO, R: -10 dBu, PHONES: -40 D OUTPUT LMONO, R: -10 kG or greater, PHONES: -44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 9/1 lb 2 oz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5)
Weight Accessories Deptions GT-001 AD Conversion DA Sampling Frequency Patches	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40, AUX IN: 27 λG UTPUT LMONO, R: -10 kΩ or greater, PHONES: 44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 2211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 41.1 kHz 36 (User) + 36 (Preset)
Weight Accessories Dptions IGT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Nominal Output Level Output Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion DA Conversion Sampling Frequency Patches Pedals	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 cz AC Adaptor, USB Cap Footswitch (FS-SU, FS-S-0), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -21 dBu GUITAR IN: -11 MQ, MIC IN: -40 MBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -2 kD, PHONES: -40 D OUTPUT LIMONO, R: -10 kD or greater, PHONES: -44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb z oz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1
Dimensions Weight Accessories Options GT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Nominal Output Level Output Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion DA Conversion Sampling Frequency Patches Pedals Nominal Input Level Input Impedance	(21-38' x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 cz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -27 kΩ OUTPUT L/MONO, R: -10 dBu, PHONES: -10 dBu OUTPUT L/MONO, R: -10 dBu, PHONES: -10 dBu OUTPUT L/MONO, R: -10 dBu, PHONES: -44 Ω OUTPUT L/MONO, R: -10 dBu, PHONES: -40 dBu OUTPUT L/MONO, R: -10 dBu, PHONES: -40 DUTPUT L/MONO, R: -10 kΩ or greater, PHONES: -44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) DC 9V-AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 cz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 44.1 kHz 36 (User) +36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: -10 dBu, AUX IN: -20 dBu INPUT: 1 MQ, AUX IN: -20 dBu INPUT: 1 MQ, AUX IN: -20 dBu
Weight Accessories Options IGT-001 AD Conversion DA Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion Sampling Frequency Patches Pedals Nominal Input Level	(24-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz A.C Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAU LMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LMONO, R: -10 kΩ or greater, PHONES: 44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) CD 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: -10 dBu, AUX IN: -20 dBu INPUT: 1 MQ, AUX IN: -21 dBu, REC OUTPIPUT LMNONO, R: -10 dBu, REC OUTPIPUT LMNONO, R: -10 dBu,
Weight Accessories Options IGT-001 AD Conversion DA Conversion DIsplay Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion DA Conversion DA Conversion Sampling Frequency Patches Pedals Nominal Input Level Input Impedance Nominal Output Level Nominal Output Level Output Impedance	(21-38" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 A, AUX IN: -27 kΩ OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 kΩ or greater, PHONES: 44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: -10 dBu, AUX IN: -20 dBu INPUT: 1 MC, AUX IN: -27 kΩ GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LIMONO, R: 2 kΩ
Weight Accessories Options IGT-001 AD Conversion DA Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Nominal Output Level Output Impedance Recommended Load Impedance Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion DA Conversion Sampling Frequency Patches Pedals Nominal Input Level Input Impedance	(21-36" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -21 dBu OUTPUT LIMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 dBu, PHONES: -40 dBu OUTPUT LIMONO, R: -10 dBu, PHONES: -40 D DUTPUT LIMONO, R: -10 dBu, Beach III L 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 44 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: -10 dBu, AUX IN: -20 dBu INPUT: 1 MQ, AUX IN: -27 kQ ct. AMP OUTPUT LIMONO, R: -10 dBu, REC OUT/PHONES: -10 dBu ct. AMP OUTPUT LIMONO, R: -10 kΩ or greater,
Weight Accessories Options IGT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion DA Conve	(21-38' x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 cz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -27 kΩ OUTPUT LMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LMONO, R: -10 dBu, PHONES: -40 DUTPUT LMONO, R: 0 kΩ or greater, PHONES: -44 Ω or greater Graphic LCD (132 x 32 dots, backlit LCD) DC 9V-AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: -10 dBu, AUX IN: -20 dBu INPUT: 1 MQ, AUX IN: -20 dBu INPUT: 1 MQ, AUX IN: -20 dBu INPUT: 1 MQ, AUX IN: -20 dBu GL AMP OUTPUT LMONO, R: 2 kΩ, REC OUTPPHONES: -10 dBu GL AMP OUTPUT LMONO, R: 2 kΩ, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG GL AMP OUTPUT LMONO, R: 10 kΩ or greater, REC OUTPPHONES: -10 dG
Weight Accessories Options IGT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion Sampling Frequency Patches Pedals Nominal Output Level Impedance Recommended Load Impedance Output Impedance Nominal Input Level Impedance Nominal Input Level Input Impedance Nominal Output Level Output Impedance Recommended Load Impedance Display	(21-38' x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 cz AC Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 MD, MIC IN: -40 MD, PHONES: -10 dBu OUTPUT L/MONO, R: -10 dBu, PHONES: -40 DBu OUTPUT L/MONO, R: -10 dBu, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: -10 dBu, AUX IN: -20 dBu INPUT: 1 MO, AUX IN: -20 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu, GE OUTPPIONES: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu GL AMP OUTPUT L/MONO, R: -10 dBu
Weight Accessories Options IGT-001 AD Conversion DA Conversion Sampling Frequency Patches Nominal Input Level Input Impedance Nominal Output Level Output Impedance Recommended Load Impedance Display Power Supply Current Draw Dimensions Weight Accessory Options IME-80 AD Conversion DA Conversion DA Conversion Sampling Frequency Patches Pedals Nominal Input Level Input Impedance Nominal Output Level Output Impedance Recommended Load Impedance Power Supply	(21-3/8" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz A.C Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -21 dBu OUTPUT L/MONO, R: 10 dBu, PHONES: -10 dBu OUTPUT L/MONO, R: 10 dBu, PHONES: -41 DBu OUTPUT L/MONO, R: 10 dBu, PHONES: -42 DBu OUTPUT L/MONO, R: 10 dBu, PHONES: -42 DBu OUTPUT L/MONO, R: 10 dBu, PHONES: -41 DBu OUTPUT L/MONO, R: 10 dBu, PHONES: -42 DBu OUTPUT L/MONO, R: 10 dBu 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor Dual Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 44 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: -10 dBu, AUX IN: -20 dBu INPUT: 1 MQ, AUX I
Weight Accessories Options IGT-001 AD Conversion DA Conversion DA Conversion Sampling Frequency Patches Nominal Output Level Output Impedance Recommended Load Impedance Recommended Load Impedance Resory Options IME-80 AD Conversion Sampling Frequency Patches Pedals Nominal Output Level Output Impedance Recommended Load Impedance Neight Accessory Options	(21-36" x 10-11/16" x 4-1/16") 4.8 kg/10 lbs 10 oz A.C Adaptor, USB Cap Footswitch (FS-SU, FS-6), Expression Pedal (FV-500L, FV-500H, Roland EV-5) P17 24 bits + AF method* 24 bits 44.1 kHz 200 (User) + 200 (Preset) GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, MIC IN: -40 dBu, AUX IN: -27 kΩ OUTPUT LMONO, R: -10 dBu, PHONES: -10 dBu OUTPUT LMONO, R: -10 dBu, PHONES: -40 dBu OUTPUT LMONO, R: -2 kΩ, PHONES: -44 Ω OUTPUT LMONO, R: -10 kΩ or greater, PHONES: -44 Ω or greater Graphic LCD (132 x 32 dots), backlit LCD) DC 9V: AC Adaptor or obtained via USB port (USB bus power) 240 mA 211 (W) x 135 (D) x 58 (H) mm (8-5/16"x 5-3/8"x 2-5/16") 500 g/1 lb 2 oz AC Adaptor Dual Footswitch (FS-5U, FS-6), Expression Pedal (FV-500L/500H, Roland EV-5) P18 24 bits + AF method* 24 bits 44.1 kHz 36 (User) + 36 (Preset) Pedal switch x 8, Expression Pedal x 1 INPUT: 1 MQ, AUX IN: -27 od GBu INPUT: 1-10 dBu, AUX IN: -20 odBu INPUT: 1-10 AUX IN: -27 tAC GI AMP OUTPUT LIMONO, R: -10 dBu, REC OUT/PHONES: -10 dBu CR AMP OUTPUT LIMONO, R: -10 dBu, REC OUT/PHONES: -16 G or greater 7 segments, 2 digits LED DC 9V: Alkaline battery <-1-16 CR or greater 7 segments, 2 digits LED DC 9V: Alkaline battery <-1-16 CR or greater 7 segments, 2 digits LED DC 9V: Alkaline battery <-1-16 CR or greater 7 segments, 2 digits LED DC 9V: Alkaline battery <-1-16 CR or greater 7 segments, 2 digits LED DC 9V: Alkaline battery <-1-16 CR or greater 7 segments, 2 digits LED

Alkaline Battery <LR6(AA)type> x 6
AC Adaptor (PSA series)

Conversion Conversion npling Frequency	24 bits + AF method*
	24 bits + AF method* 24 bits
	44.1 kHz
gram Memories	60
ind Library ninal Input Level	60 INPUT: -10 dBu, AUX IN: -18 dBu
ut Impedance	INPUT: 1 MΩ, AUX IN: 22 kΩ
ninal Output Level	-10 dBu
put Impedance	2 kΩ DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6,</r6>
ver Supply	AC Adaptor (PSA series: Optional)
rent Draw	150 mA
nensions	300 (W) x 191 (D) x 72 (H) mm (11-13/16" x 7-9/16" x 2-7/8"), Maximum height: 300 (W) x 191 (D) x 93 (H) mm (11-13/16" x 7-9/16" x 3-11/16")
ght	1.9 kg/4 lbs 4 oz
essories ion	Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series)</lr6>
T 40D	
T-10B Conversion	P19 24 bits + AF method*
Conversion	24 bits
pling Frequency	44.1 kHz
gram Memories	400: 200 (user) + 200 (preset)
ninal Input Level ut Impedance	INPUT: -10 dBu, RETURN: -10 dBu INPUT: 1 MΩ, RETURN: 220 kΩ
ninal Output Level	OUTPUT: -10 dBu/+4 dBu, SEND: -10 dBu,
out Impedance	SUB OUTPUT: +4 dBu OUTPUT: 2 kΩ, SEND: 3 kΩ, SUB OUTPUT: 600 Ω
amic Range	100 dB or greater (IHF-A)
er Supply	DC 9V: AC Adaptor
rent Draw	800 mA 542 (W) x 272 (D) x 77 (H) mm (21-3/8" x 10-3/4" x 3-1/16"),
ensions	Maximum height: 542 (W) x 272 (D) x 10-3/4 x 3-1716), (21-3/8" x 10-3/4" x 4-1/8")
ght	4.9 kg/10 lbs 13 oz
essory	AC Adaptor
ions	Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L)
1E-50B	P19
Conversion	24 bits + AF method*
Conversion	24 bits
pling Frequency gram Memories	44.1 kHz 24 (User)
ninal Input Level	INPUT: -10 dBu, AUX IN: -10 dBu
t Impedance	INPUT: 1 MΩ, AUX IN: 100 kΩ
inal Output Level out Impedance	-10 dBu 2 kΩ
er Supply	DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6,</r6>
rent Draw	AC Adaptor (PSA series: Optional) 140 mA
ensions	384 (W) x 225 (D) x 78 (H) mm (15-1/8" x 8-7/8" x 3-1/8")
ght	3.2 kg/7 lbs (incl. batteries)
essories	Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6),</lr6>
ions	Footswitch Cable (Roland PCS-31L)
IE-20B	D40
Conversion	P19 24 bits + AF method*
Conversion	24 bits
pling Frequency	44.1 kHz
ram Memories inal Input Level	30 (user) INPUT: -10 dBu, AUX IN: -18 dBu
t Impedance	INPUT: 1 MΩ, AUX IN: 22 kΩ
inal Output Level	-10 dBu
	2 kΩ DC 9 V: Dry Battery <lr6 (aa)="" r6="" type=""> x 6,</lr6>
out Impedance	
out Impedance er Supply	AC Adaptor (PSA series: Optional)
out Impedance er Supply	AC Adaptor (PSA series: Optional) 90 mA
out Impedance er Supply ent Draw	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm
out Impedance er Supply eent Draw ensions	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16")
out Impedance er Supply ent Draw ensions ght	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-58" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries)
out Impedance er Supply ent Draw ensions ght essories	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6),
put Impedance ver Supply rent Draw ensions ght essories	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8* x 7-1/16* x 2-1/8*), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8* x 7-1/16* x 2-1/5/16*) 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6</lr6>
put Impedance ver Supply rent Draw ensions ght essories ions	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8* x 7-1/16* x 2-1/8*), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8* x 7-1/16* x 2-15/16*) 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <1.R6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L)
put Impedance ver Supply rent Draw ensions ght essories ions	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6),
put Impedance ver Supply rent Draw ensions ght essories oons	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8* x 7-1/16* x 2-1/8*), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8* x 7-1/16* x 2-15/16*) 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <1.R6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L)
put Impedance ver Supply rent Draw ensions ght essories ions	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Bass (3 types), Guitar synthesizer (3 types), Bass (3 types), Guitar synthesizer (3 types),</lr6>
put Impedance ver Supply rent Draw ensions ght essories ions UITAR PRO	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8* x 7-1/16* x 2-1/8*), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8* x 7-1/16* x 2-15/16*) 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Callar synthesizer (3 types), Poly FX (6 types)</lr6>
out Impedance ere Supply erent Draw ensions ght essories ons JITAR PRO	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Bass (3 types), Guitar synthesizer (3 types), Bass (3 types), Guitar synthesizer (3 types),</lr6>
out Impedance er Supply ent Draw ensions ght essories ons JITAR PR EP-10 eling rnate Tuning	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D, E, G, A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99
unt Impedance er Supply ent Draw ensions ght essories ons JITAR PRO P-10 eling mate Tuning h Memory	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D, E, G, A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 99 6(K Pickup: 24 bits</lr6>
ut Impedance er Supply ent Draw entsions tht essories ons JITAR PRO P-10 eling enate Tuning h Memory conversion	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D, E, G, A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99
ut Impedance er Supply ent Draw ensions ght essories ons JITAR PR P-10 elling mate Tuning h Memory Conversion Jonversion pling Frequency	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D, E, G, A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 96 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz</lr6>
put Impedance er Supply ent Draw ensions ght essories ons JITAR PRO P-10 eling mate Tuning h Memory Conversion pling Frequency inal Input Level	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 cz (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D. E., G. A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu
put Impedance er Supply ent Draw ensions ght essories ons JITAR PRO EP-10 eling eling h Memory conversion conversion conversion pling Frequency inal Input Level tt Impedance	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8* x 7-1/16* x 2-1/8*), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8* x 7-1/16* x 2-15/16*) 1.6 kg/3 lbs 9 cz (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D, E, G, A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickur: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu,
continpedance er Supply erent Draw ensions ght essories ons JITAR PRO EP-10 telling rnate Tuning th Memory Conversion conversion piling Frequency onal Input Level tt Impedance oninal Output Level	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D. E., G. A.), DROP (D to A.), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: 10 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu</lr6>
out Impedance er Supply rent Draw ensions ght essories ons JITAR PR 6P-10 leling rnate Tuning ch Memory Conversion oppling Frequency pinal Input Level tt Impedance out Impedance out Impedance	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 α2 (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (6 types) OPEN (D. E.G. Al), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, AUX IN: -27 kΩ OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -2 kΩ, GUITAR OUT: -2 kΩ, PHONES: -10 dBu OUTPUT LIMONO, R: -2 kΩ, GUITAR OUT: -2 kΩ, PHONES: -10 dBu
out Impedance er Supply ent Draw ensions ght essories ons JITAR PRO EP-10 elling rnate Tuning th Memory Conversion pling Frequency sinal Input Level t Impedance sinal Output Level	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 α2 (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (6 types) OPEN (D. E. G. Al), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR N: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -20 AG or greater GUITAR W: 20 kΩ or greater
put Impedance er Supply ent Draw ensions ght essories ons JITAR PRO EP-10 elling rnate Tuning h Memory Conversion Conversion pling Frequency inial Input Level ti Impedance inial Output Level out Impedance	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 α2 (incl. batteries) Dry Battery <lr6 (a4)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D. E., G. A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, CUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, GUITAR OUT: 2 kΩ, PHONES: -10 dBu OUTPUT LIMONO, R: 20 kΩ or greater GUITAR OUT: 20 kΩ or greater PHONES: 16 Ω or greater PHONES: 16 Ω or greater</lr6>
out Impedance er Supply ent Draw ensions ght essories ons JITAR PRO EP-10 eling enter Tuning th Memory conversion Conversion Conversion pling Frequency inal Input Level tt Impedance out Impedance	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 α2 (incl. batteries) Dry Battery < LR6 (AA) type> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (6 types) OPEN (D. E. G. Al), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR N: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITAR IN: -10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: -20 AG or greater GUITAR W: 20 kΩ or greater
out Impedance er Supply ent Draw ensions ght essories ons JITAR PRO EP-10 elling rnate Tuning h Memory Conversion Conversion pling Frequency sinal Input Level ti Impedance sinal Output Level out Impedance out	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (as)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D. E., G. A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITAR IN 1 MΩ, AUX IN: -20 dBu GUITAR IN 1 MΩ, AUX IN: -20 dBu GUITAR IN: 10 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, GUITAR OUT: 2 kΩ, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, GUITAR OUT: 2 kΩ, PHONES: -10 of greater GUITAR OUT: 20 kΩ or greater GUITAR OUT: 20 kΩ or greater Pedal switch x 4, Expression Pedal x 1 16 characters, 2 lines (backit LCD) DC 9Y: AC Adaptor</lr6>
out Impedance er Supply ent Draw ensions ght essories ons JITAR PRO EP-10 eling enter Tuning th Memory conversion Conversion Conversion pling Frequency inal Input Level tt Impedance out Impedance	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8* x 7-1/16* x 2-1/8*), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8* x 7-1/16* x 2-15/16*) 1.6 kg/3 lbs 9 α2 (incl. batteries) Dry Battery <lr6 (aa)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D, E, G, A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: 10 dBu, AUX IN: -20 dBu GUITPUT LIMONO, R: 20 kΩ or greater UNTPUT LIMONO, R: 20 kΩ or greater GUITAR OUT: 20 kΩ or greater Pedal switch x 4, Expression Pedal x 1 16 characters, 2 lines (backit LCD) DC 9V: AC Adaptor 330 mA</lr6>
out Impedance er Supply ent Draw ensions ght essories ons JITAR PRO EP-10 elling rnate Tuning h Memory Conversion Conversion pling Frequency sinal Input Level ti Impedance sinal Output Level out Impedance out	AC Adaptor (PSA series: Optional) 90 mA 294 (W) x 179 (D) x 54 (H) mm (11-5/8" x 7-1/16" x 2-1/8"), Maximum height: 294 (W) x 179 (D) x 74 (H) mm (11-5/8" x 7-1/16" x 2-15/16") 1.6 kg/3 lbs 9 oz (incl. batteries) Dry Battery <lr6 (as)="" type=""> x 6 AC Adaptor (PSA series), Footswitch (FS-5U, FS-6), Footswitch Cable (Roland PCS-31L) OCESSOR P20 Electric guitar (12 types), Acoustic (9 types), Bass (3 types), Guitar synthesizer (3 types), Poly FX (5 types) OPEN (D. E., G. A), DROP (D to A), D-MODAL, NASHVILLE, SHIFT (-12 to +12), USER (12-string guitar function) 99 GK Pickup: 24 bits GUITAR IN: 24 bits + AF method* 24 bits 44.1 kHz GUITAR IN: -10 dBu, AUX IN: -20 dBu GUITAR IN 1 MΩ, AUX IN: -20 dBu GUITAR IN 1 MΩ, AUX IN: -20 dBu GUITAR IN: 10 dBu, AUX IN: -20 dBu GUITAR IN: 10 dBu, GUITAR OUT: -10 dBu, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, GUITAR OUT: 2 kΩ, PHONES: -10 dBu OUTPUT LIMONO, R: 2 kΩ, GUITAR OUT: 2 kΩ, PHONES: -10 of greater GUITAR OUT: 20 kΩ or greater GUITAR OUT: 20 kΩ or greater Pedal switch x 4, Expression Pedal x 1 16 characters, 2 lines (backit LCD) DC 9Y: AC Adaptor</lr6>

Accessories	AC Adaptor, Divided Pickup (Roland GK-3) (only for GK included mo GK Cable (3 m, 10 feet) (only for GK included model)
Options	Divided Pickup (Roland GK-3), GK Cable: Roland GK-5 (5 m), GKC-10 (10 m), GK Parallel Cable (GK Pickup ← GK Connector x 2 Roland GKP-2, Unit Selector (Roland US-20), Footswitch (FS-5U, FS-6), Expression Pedal (Roland EV-5, FV-500L, FV-500H)
eBand 🚃	
■JS-10	P
Capacity	SD/SDHC Card: 1 GB to 32 GB eBand Songs (Recording/Playback),
Data Types	MP3 (Bit rate: 64 Kbps to 320 Kbps, Playback only), WAV (Quantization bit rate: 16 bits, Playback only)
External Memory AD Conversion	USB Flash Memory (Optional, sold separately) 24 bits + AF method*
DA Conversion	24 bits
Sampling Frequency	44.1 kHz
Effect Patch Memories Recording Time	Preset= 130, User= 100 eBand Songs= 4 hours (1 GB), 130 hours (32 GB), WAV/16 bits/Steree= 1.5 hours (1 GB), 50 hours (32 GB) WB3/128 Ktps/Steree= 17 hours (1 GB), 550 hours (32 GB) *The above-listed recording times are approximate.
	Times may be slightly shorter depending on the numbe of songs that were created. INPUT 1/2 GUITAR/MIC IN (INPUT GAIN = GUITAR) = -10
Nominal Input Level	INPUT 1/2 GUITAR/MIC IN (INPUT GAIN = MIC)= -32 dBu INPUT 2 AUX IN= -20 dBu INPUT 1/2 GUITAR/MIC IN= 1 MΩ,
Input Impedance	INPUT 2 AUX IN= 47 kΩ
Nominal Output Level Output Impedance	LINE OUT= -10 dBu LINE OUT= 1 kΩ
Internal Speakers	2.1 channels (2-channel Stereo and Woofer)
Rated Power Output	12 W (Stereo Speaker 3.5 W x 2 + Woofer 5 W)
Display USB	Graphic LCD 132 x 64 dots Audio, Mass Storage Class
Current Draw	700 mA
Dimensions Weight	264 (W) x 169 (D) x 209 (H) mm (10-7/16" x 6-11/16" x 8-
Weight Accessories	1.8 kg/4 lbs AC Adaptor, SD Card, USB Cable
Options	Footswitch (FS-5U, FS-6), Expression Pedal (Roland EV-5, FV-500L, FV-500H), USB Flash Memo * Use USB Flash Memory sold by Roland. We cannot guarantee operation if other products are used.
Tracks	recording track: 2 (stereo) <live mode="" rec=""> Tracks: 2 (stereo), Simultaneousl recording track: 2 (stereo) * Either the playback or the recording.</live>
Conneity	
Capacity Data Type	SD/SDHC Card: 1 GB to 32 GB <mtr mode=""> Linear (Bit depth: 16 bits) <band mode=""> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), MP3 (Bit rates: 64 Kbps to 320 Kbps, Playback only)</band></mtr>
	SD/SDHC Card: 1 GB to 32 GB -MTR Mode> Linear (Bit depth: 16 bits) -eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), -MP3 (Bit rates 64 Kpbs to 32 (Kbps, Playback only) -LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback),
	SD/SDHC Card: 1 GB to 32 GB «MTR Mode> Linear (Bit depth: 16 bits) «Band Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only) «LIVE REC Mode> WAY (Bit etph: 16 bits, Recording/Playback), WAY (Bit etph: 16 bits, Recording/Playback),
Data Type	SD/SDHC Card: 1 GB to 32 GB -MITR Mode> Linear (Bit depth: 16 bits) -eBand Mode> Bland Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), MP3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) -LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback)
Data Type AD Conversion DA Conversion Sample Frequency	SDI/SDHC Card: 1 GB to 32 GB «MTR Mode» Linear (Bit depth: 16 bits) «eBand Mode» eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only) «LIVE REC Mode» WAV (Bit depth: 16 bits, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) «LIVE REC Mode» WAV (Bit depth: 16 bits, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playb 24 bits 44.1 kHz «MTR Mode» 1 GB: 3 hours, 32 GB: 100 hours «eBand Mode» [Band Song] 1 GB: 4 hours, 32 GB: 130 hours «eBand Mode» [LEC Mode» WAV 16 bits, stereo] 1 GB: 1.5 hours, 32 GB: 50 hou
Data Type AD Conversion DA Conversion	SDISDHC Card: 1 GB to 32 GB *MTR Mode> Linear (Bit depth: 16 bits) *eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), #MP3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) *LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), *MTR Mode> 1 GB: 3 hours, 32 GB: 100 hours **eBand Mode> [eBand Song] 1 GB: 4 hours, 32 GB: 130 hours **eBand Mode* [UE REC Mode> [WAV 15 bits, stereo] 1 GB: 16 hours, 32 GB: 50 hour MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour **MP3 128 Kbps, stereo] 1 GB: 16 hours **MP3
Data Type AD Conversion DA Conversion Sample Frequency	SDI/SDHC Card: 1 GB to 32 GB «MTR Mode> Linear (Bit depth: 16 bits) «Band Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) «LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps,
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance	SDISDHC Card: 1 GB to 32 GB «MTR Mode> Linear (Bit depth: 16 bits) «eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) «LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit depth: 16 bits, Recording/Playback), WB5 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB7 (Bit rates) (Bit rates), WB7 (Bit rates), Subsequential (Bit rates), WB7
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track)	SDISDHC Card: 1 GB to 32 GB -MTR Mode> Linear (Bit depth: 16 bits) -eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), -WB7 (Bit rates: 64 Kbps to 320 Kbps, Playback only) -LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback) -WAV (Bit depth: 16 bits, Recording/Playback), -WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback) -WAV (Bit depth: 16 bits, Recording/Playback), -WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback) -WB4 tiss -WB5 (Bits Recording Linear) -WB4 (Bits) -WB4 (
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level	SDISDHC Card: 1 GB to 32 GB «MTR Mode> Linear (Bit depth: 16 bits) «eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WAY (Bit depth: 16 bits, Playback only), «IN 18 Har Isres 6 4 Kbps to 320 Kbps, Playback only), «LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WAY (Bit to 18 GB: 3 hours, 32 GB: 100 hours «Band Mode> (eBand Song) 1 GB: 4 hours, 32 GB: 130 hours «Band ModeI, LIVE REC Mode> WAY 16 bits, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hour [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hour [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours, 32 GB: 50 hours [MP3 128 Kbps, stereol 1 GB: 1.5 hours [MP3 128 Kbps, stereol 1 GB: 1 hours
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply	SDISDHC Card: 1 GB to 32 GB AMTR Mode> Linear (Bit depth: 16 bits) eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB3 (Bit rates: 64 Kbps to 320 Kbps, Playback only), LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 bits 44.1 kHz 44.1 kHz 44.1 kHz 45.130 hours 45.2 GB: 130 hours 45.2 GB: 130 hours 45.2 GB: 130 hours 45.2 GB: 130 hours 45.3 GB: 150 hours, 32 GB: 50 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours 4 Hours
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw	SDISDHC Card: 1 GB to 32 GB *MTR Mode> Linear (Bit depth: 16 bits) *eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), #MP3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) *LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MP3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), **MTR Mode> 1 GB: 3 hours, 32 GB: 100 hours **eBand Mode> [PBand Song] 1 GB: 4 hours, 32 GB: 130 hours **seBand Mode* [UE REC Mode> WAV 16 bits, stereo] 1 GB: 15 hours, 32 GB: 50 hou MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hou MP3 128 Kbps, stereo] 1 GB: 16 hours, 32 GB: 50 hour ## above-listed recording times are approximate. **Times may be slightly shorter depending on the until of songs that were created.* The above number of the **MTR mode is bit total for all the tracks that are used. If each of the eight tracks contain an equal amount of data, the length of the resulting song will be **approximately 1/8 of the above. GUITARMIC IN jack: 2 dBu (GUITARMIC SW = GUITAR), -40 dBu (GUITARMIC SW = GUITAR), -40 dBu (GUITARMIC SW = GUITAR), -40 LBu GUITARMIC SW = GUITAR), -40 LBu CUITARMIC SW = GUITAR), -40 LBu CUITARMI
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply	SDISDHC Card: 1 GB to 32 GB AMTR Mode> Linear (Bit depth: 16 bits) eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB3 (Bit rates: 64 Kbps to 320 Kbps, Playback only), LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 bits 44.1 kHz 44.1 kHz 44.1 kHz 45.130 hours 45.2 GB: 130 hours 45.2 GB: 130 hours 45.2 GB: 130 hours 45.2 GB: 130 hours 45.3 GB: 150 hours, 32 GB: 50 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 550 hours MB7 128 Kbps, stereol 1 GB: 16 hours 4 Hours
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions	SDISDHC Card: 1 GB to 32 GB «MTR Mode» Linear (Bit depth: 16 bits) «eBand Mode» eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) «LIVE REC Mode» WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit rates: 64 Kbps, Playback), WB4 (Bit rates:
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions Weight	SDISDHC Card: 1 GB to 32 GB *MTR Mode> Linear (Bit depth: 16 bits) eeBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB7 (Bit rates: 64 Kbps to 320 Kbps, Playback only) *LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB7 (Bit Rates) (BB3 Abours, 32 GB: 100 hours **eBand Mode> [eBand Song] 1 GB: 4 hours, 32 GB: 130 hours, 32 GB: 130 hours, 32 GB: 130 hours, 32 GB: 130 hours, 32 GB: 50
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions Weight Accessories	SDISDHC Card: 1 GB to 32 GB AMTR Mode> Linear (Bit depth: 16 bits) eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit Recording) (Bit Recording), MB3 (Bit Recording), MB3 (Bit Recording), MB3 (Bit Recording), MB3 (Bit Recording), MB4 (Bit
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions Weight Accessories Options	SDISDHC Card: 1 GB to 32 GB «MTR Mode» Linear (Bit depth: 16 bits) «Band Mode» eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB7 (Bit rates: 64 Kbps to 320 Kbps, Playback only) «LIVE REC Mode» WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB4 (Bit depth: 66 Bits, Recording/Playback), WB4 bits, Starback, Bits, Bits
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions Weight Accessories Options BR-800	SDI/SDHC Card: 1 GB to 32 GB «MTR Mode» Linear (Bit depth: 16 bits) «eBand Mode» eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), H73 (Bit rates: 64 Kpbs to 320 Kbps, Playback only) «LIVE REC Mode» WAV (Bit depth: 16 bits, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WAV (Bit back) (BB: 3 hours, 32 GB: 100 hours «eBand Mode» (eBand Song) 1 GB: 4 hours, 32 GB: 130 hours «eBand Mode» (LIVE REC Mode» WAV 16 bits, Stereo) 1 GB: 15 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hou M73 128 Kbps, stereol 1 GB: 16 hours, 32 GB: 50 hour M74 128 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, stereol 1 GB: 18 hours, 32 GB: 50 hours M75 108 Kbps, 108 hours M75 108 Hbps, 1
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions Weight Accessories Options BR-800 Tracks Sample Frequency Frequency Response	SDISDHC Card: 1 GB to 32 GB *MTR Mode> Linear (Bit depth: 16 bits) *eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), #M3 (Bit rates: 64 Kbps to 320 Kbps, Playback only) *LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), M3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M4 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M5 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M6 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M6 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M8 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M9 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #M9 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), #
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions Weight Accessories Options BR-800 Tracks Sample Frequency Frequency Response AD Conversion	SDISDHC Card: 1 GB to 32 GB «MTR Mode» Linear (Bit depth: 16 bits) «Band Mode» eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), WB7 (Bit rates: 64 Kbps to 320 Kbps, Playback only), «LIVE REC Mode» WAV (Bit depth: 16 bits, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), MB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), WB3 (Bit rates: 64 Bit Shours, 32 GB: 50 hours «Band Model-LIVE REC Mode» WB4 16 bits, Stereol 1 GB: 16 hours, 32 GB: 50 hours «Band Model-LIVE REC Mode» WB4 16 bits, Stereol 1 GB: 16 hours, 32 GB: 50 hours was been used to be supproximate. WB4 16 bits, Stereol 1 GB: 16 hours, 32 GB: 50 hours was been used. WB4 17 The above number of the MTR mode is the total for all the tracks that are used. WB4 18 bits was created. "The above number of the MTR mode is the total for all the tracks that are used. WB4 18 bits was been u
Data Type AD Conversion DA Conversion Sample Frequency Recording Time (conversion in one track) Nominal Input Level Input Impedance Nominal Output Level Output Impedance USB Functions Power Supply Current Draw Dimensions Weight Accessories Options BR-800 Tracks Sample Frequency Frequency Response	SDISDHC Card: 1 GB to 32 GB *MTR Mode> Linear (Bit depth: 16 bits) *eBand Mode> eBand Songs (Recording/Playback), WAV (Bit depth: 16 bits, Playback only), #M73 (Bit rates: 64 Kbps to 320 Kbps, Playback only) *LIVE REC Mode> WAV (Bit depth: 16 bits, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M73 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M74 (Bit depth: 16 bits, Recording/Playback), M75 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M75 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M75 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), M76 (Bit rates: 64 Kbps to 320 Kbps, Recording/Playback), "The about-listed recording times are approximately "The above-listed recording times are approximately "The above-listed recording times are approximately "The above-listed recording times are approximately "The above number of the mount of songs that were created." The above number of the M77 M77 M77 M77 M77 M77 M77 M77 M77 M7

odel),	Recording Time (for multi-track recording)	Conversion in one track, I GB: 8 hours 40 minutes, 32 GB: 272 hours * The above-listed recording times are approximate. Times may be slightly shorter depending on the number of songs that were created. * The above number is the total for all the tracks that are used. If each of the eight tracks contain an equal amount of data, the length of the resulting sone will be approximately 1/8 of the above.
	Recording Time (for SONG SKETCH)	Stereo recording, 1 GB: 90 minutes, 32 GB: 48 hours
1)	Nominal Input Level	GUITAR/BASS jack: -10 dBu, INPUT 1-4 jacks: -50 to -20 dBu (XLR type), -26 to +4 dBu (1/4" TRS phone type), LINE IN jack: -10 dBu
P22	Input Impedance	GUITAR/BASS jack: 1 M Ω , INPUT 1–4 jacks: 3 k Ω (XLR type), 47 k Ω (1/4" TRS phone type), LINE IN jack: 10 k Ω
	Nominal Output Level	LINE OUT jacks: -10 dBu
	Output Impedance	LINE OUT jacks: 1 kΩ
,	Recommended Load Impedance	LINE OUT jacks: 20 kΩ or greater, PHONES jack: 32 to 100 Ω
	Residual Noise Level	LINE OUT jacks: -85 dBu or less (IHF-A, typ.)
	Power Supply	DC 9 V: AC Adaptor, Size AA Dry Battery x 6 (Alkaline batteries recommended), USB Bus Power
	Current Draw	280 mA (DC IN), 480 mA (USB Bus Power)
	Dimensions	289 (W) x 184 (D) x 58 (H) mm (11-7/16" x 7-1/4" x 2-5/16")
	Weight	890 g/2 lbs (incl. batteries)
GB), 32 GB)	Accessories	SD Card, AC Adaptor, USB Cable
er	DR & DB SE	RIES

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Max. Polyphony	32 voices: Depending on the bass sound selected, max. polyphony may be lower
Instruments	Drums: 440, Bass: 40
Kits	User: 100, Preset: 100
Rhythm Patterns	User: 500, Preset: 500
Songs	User: 100
Power Supply	AC 14V: AC Adaptor
Power Consumption	600 mA
Dimensions	273 (W) x 242 (D) x 72 (H) mm (10-3/4" x 9-9/16" x 2-7/8
Weight	1.4 kg/3 lbs 2 oz
Accessories	AC Adaptor, DR-880 Driver CD-ROM
Options	Footswitch (FS-5U, FS-6), Expression Pedal (Roland EV-
DD 2	

DR-3		P24
Max. Polyphony	12 voices	
Instruments	Drum and Perc: 120, Bass: 12	
Styles	User Style: 100, Preset Style: 100,	

Drum and Perc: 120, Bass: 12
User Style: 100, Preset Style: 100, 11 patterns for a style
Songs: 100, Song Length: Max. 250 patterns for a song
DC 9 V: Dry Battery <r6 (aa)="" lr6="" type=""> x 6, AC Adaptor (PSA series: Optional)</r6>
200 mA
213(W) x 185 (D) x 53 (H) mm (8-7/16" x 7-5/16" x 2-1/8")
710 g/1 lb 10 oz
Dry Battery <lr6 (aa)="" type=""> x 6</lr6>
AC Adaptor (PSA series), Footswitch (FS-5U, FS-6)

DB-90		P24
	T 20 t- 250 (A t 0.40/) Dt 4. 4	0

Metronome	Tempo: 30 to 250 (Accuracy: ± 0.1%), Beat 1: 1–9, Beat 2: OFF, 1–9, Pattern: 8-Beat x 4, 16-Beat x 3, Shuffle x 3, Funk x 2, Jazz x 2, Blues, Techno, House, Country, Reggae, Clave 3-2, Clave 2-3, Salsa, Rumba, Bossa Nova, Samba, Waltz, Tango, Mambo, Chachacha, March (30 kinds)
Rhythm Coach	Time Check, Quiet Count, Gradual Up/Down, Step Up/Down
Reference Tone	Reference Pitch: A4 = 438 Hz to 445 Hz (1 Hz step), Reference Tone Range: C2 to B6 (5 octave, 12 semiton
Memory	Metronome: 50, Reference Tone: 10
Auto Power Off function	Turns unit off after 60 min.
Indicators	LCD Display, Tempo Indicator LED x 2
Power Supply	DC 9 V: Dry Battery <6F22/6LR61 type>, AC Adaptor (PSA series: Optional)
Current Draw	85 mA or less (with reference tone sounding), 190 mA or less (with signals inputting to the INPUT jack
Dimensions	122 (W) x 164 (D) x 38 (H) mm (4-3/4" x 6-1/2" x 1-1/2")
Weight	450 g/1 lb (incl. battery)
Accessories	Dry Battery <6LR61 type>, Soft Case

DB-60	P24
Metronome	Tempo: 30 to 250 (Accuracy: ± 0.1 %), Beat: 1–9, 2+3, 3+2, 3+4, 4+3, 4+5, 5+6, 6+5, 6+7, 7+6, 7+8, 8+7, 8+9, 9+6 (23 kinds), Pattern: 8 Beat x 3, 16 Beat x 2, Shuffle x 2, Funk, Dance x 2, Country, Reggae, Clave x 2, Rumba, Brssa Nova Waltz Tanno Mambo March (20 kinds)

	Dance x 2, Country, Reggae, Clave x 2, Rumba, Bossa Nova, Waltz, Tango, Mambo, March (20 kinds)
Reference Tone	Reference Pitch: A4 = 438 Hz to 445 Hz (1Hz step), Reference Tone Range: C4 to B4 (Accuracy: ±1 cent)
Timer	Setting Range: 1 to 60 minutes
Indicators	LCD Display, Tempo Indicator LED x 2
Power Supply	Dry Battery <r6 (aa)="" lr6="" type=""> x 2</r6>
Dimensions	129 (W) x 84 (D) x 22 (H) mm (5-1/8" x 3-5/16" x 7/8")
Weight	156 g/6 oz (incl. batteries)
Accessories	Dry Rattery <r6 (aa)="" tyne=""> v 2 Soft Case</r6>

DB-30		P24
	Tempo: 30 to 250 (Accuracy: ± 0.1%), Beat: 0-9,	

Metronome	2+3, 3+2, 3+4, 4+3, 4+5, 5+4, 5+6, 6+5, 6+7, 7+6, 7+8, 8+7, 8+9, 9+8 (24 kinds), Rhythm: Quarter note, Eighth note, Eighth rest and eighth note, Triple, Triple with center rest, Sixteenth note, Sixteenth note with sixteenth rest, Clave 1, Clave 2 (9 kinds)
Reference Tone	Reference Pitch: A4 = 438 Hz to 445 Hz (1 Hz step), Reference Tone Range: C4 to B4 (Accuracy: ±1 cent)
Auto Power Off function	Turns unit off after 60 min.
Memory function	Stores the settings when the power is turned off. (The Mute status is not stored in memory.)
Indicators	LCD Display, Tempo Indicator LED x 2
Power Supply	Lithium Battery <cr2032></cr2032>
Dimensions	61 (W) x 90 (D) x 20 (H) mm (2-7/16" x 3-9/16" x 13/16")
Weight	70 g/3 oz (incl. battery)
Accessory	Lithium Battery <cr2032></cr2032>