

PRODUCT
S•COM PLUS

DESCRIPTION
STEREO COMPRESSOR/LIMITER

SERIES
S•CLASS

CATEGORY
SIGNAL PROCESSING

TYPE:
SIGNAL
PROCESSORS



GENERAL DESCRIPTION

The Samson S•Com plus is a one rack space, dual channel dynamics processor optimized for recording, live sound reinforcement systems, DJ set-ups and commercial installations. The S•Com plus is a complete dynamics processing solution offering two channels of full function Compressor, Expander/Gate, Limiter and De-Esser. S•Com plus' convenient meters provide instant status of important gain management settings.

FEATURES

- > Full featured, dual channel dynamics processor including Compressor/Limiter, Expander/Gate, De-Esser and Peak Limiter.
- > SKD (Smart Knee Detector) switches from soft to hard knee based on the level of input signal.
- > AEG (Automatic Envelope Generator) mode constantly adjusts the Compressor's Attack and Release times based on input signal. Manual adjustment of Attack and Release time is also facilitated.
- > 12 Segment LED Input/Output Meter, plus 12 Segment LED Gain Reduction Meter.
- > External Keying with Key Switch available on front panel.
- > Adjustable De-Esser with independent LED meter for reducing sibilance from recorded tracks.
- > Expander/Gate with variable Trigger control and switchable Fast and Slow Release time.

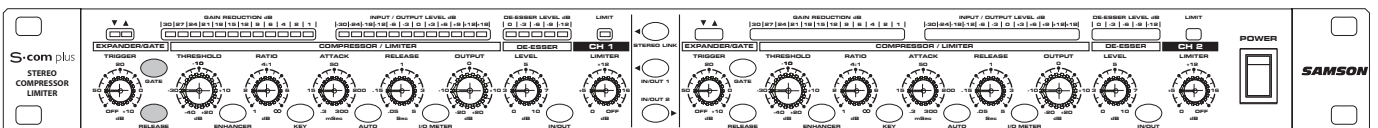
- > Gate function can be switched from hard off to light Downward Expander.
- > Gate Open and Closed LED's.
- > Peak Limiter with independent threshold control and Limit LED.
- > Advanced circuit design, utilizing low noise operational amplifiers and high quality VCAs.
- > Stereo Link Switch.
- > Servo balanced inputs and outputs on XLR and 1/4" connectors.
- > Switchable +4 and -10 operating levels.
- > High quality, 41 position detent pots and backlit switches.
- > Three-year extended warranty.

ARCHITECT'S & ENGINEER'S SPECIFICATIONS

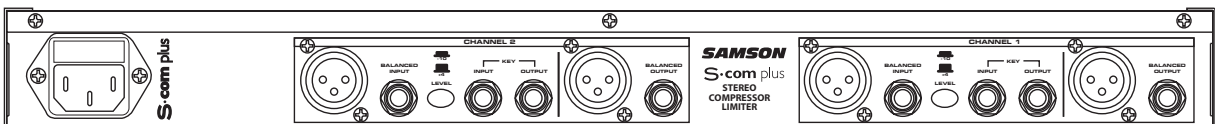
The S•Com plus shall be a 2 channel compressor/limiter. It shall have XLR and 1/4 inch inputs and outputs with a +4 / -10 operation output level switch. Each channel shall have a 1/4 inch key input and 1/4 inch key output. A Key enable switch will also be available on the front panel. Each channel shall have an expander/gate with a switchable Release time, variable Trigger control, and gate open/close indicator. The compressor controls shall be Threshold, Ratio, Attack, Release, and Output level. An Auto switch will be available for automatic attack and release time settings on the compressor. An independent limiter circuit and variable

continues»

FRONT PANEL



BACK PANEL



PRODUCT SPECIFICATION SHEET



SERIES
S•CLASS

DESCRIPTION
MULTI-ZONE STEREO MIXER

CATEGORY
SIGNAL PROCESSING

S•COM PLUS SPECIFICATIONS

System Specifications

Frequency Response	<10Hz to 20kHz +0 / -0.1 dB effect out, -0.4 @ 100kHz, <10Hz to 20kHz +0 / -0.1 dB effect in, -3dB @ >100kHz
Dynamic range.....	116 dB, un-weighted, 22 Hz to 22 kHz
THD	0.008 % typ. @ +4 dBu, 1 kHz Effect out, 0.016% effect in
Crosstalk.....	>100dB, 22 Hz to 22 kHz
Operating Level	Selectable +4dBu / -10 dBV
Max. Input Level.....	+21dBu, balanced
CMRR.....	Min. 40dB, >50dB @ 1kHz
Max. Output Level.....	+21dBu, balanced

Signal Input

Connectors.....	XLR and 1/4" TRS jack
Impedance	>20K Ohms balanced or >10K unbalanced

Signal Output

Connectors.....	XLR and 1/4" TRS jack
Impedance	60 Ohms balanced or 30 unbalanced

Key Input

Connector	1/4" jack
Impedance	10 k Ohm
Max. Input Level.....	+21 dBu

Key Output

Connector	1/4" jack
Impedance	47 Ohms
Max. Output Level.....	+21 dBu

Expander/Gate

Trigger range	Variable (Off to +10 dB)
Attack.....	<1 ms per 50 dB
Release.....	Variable (Slow:100 ms / 1dB, Fast:100 ms / 100 dB)
Ratio	Expander 2:1, Gate 16:1

Compressor Section

Detector.....	RMS
Threshold.....	-40 dB to +20 dB
Ratio	Variable (1:1 to infinity : 1)
Manual Attack Time	Variable (0.3 ms / 20 dB to 300 ms / 20dB)
Manual Release Time	Variable (0.05 to 5 Sec)
Output gain	Variable (-20 to +20 dB)

Peak Limiter Section

Threshold.....	Variable 0dB to Off
Ratio	Preset
Limiter.....	Ceiling type
Attack.....	<5 ms
Release.....	Typ. 20dB/s

ARCHITECT'S & ENGINEER'S SPECIFICATIONS (continued)

Level control shall be on the front panel. A variable de-esser with an In and Out switch for removing sibilance shall be on the front panel. Each channel shall have a switchable enhancer to bring back the high frequencies lost due to heavy compression. Full LED Gain Reduction and Input/Output metering will be on both channels with a I/O meter switch to select input or output viewing on the meter. The unit shall have front panel bypass switches and a Stereo Link switch. A standard IEC power cable shall be provided to connect to AC power.

De-Esser

Level range	variable (0 to 10dB)
Maximum.....	12dB Gain Reduction mid / high band

Function Switches

Gate	Gate or Expander
Release.....	Fast/slow
Enhancer	In/Out
In/Out (1,2).....	Bypass
Key.....	Switches the detector section to external key input
Auto	Sets automatic attack and release times - program dependent
I/O Meter	Switches the Input/Output meter to read input or output level
In/Out.....	De-Esser
Stereo Link.....	Links both channels for stereo operation. Channel 1 becomes Master.
Level (Rear Panel).....	Changes the internal reference level from +4dBu to -10dBV

Meters & LED'S

Gain Reduction.....	12 segment LED display: 30 / 27 / 24 / 21 / 18 / 15 / 12 / 9 / 6 / 4 / 2 / 1dB
Input/Output level.....	12 segment LED display: -30 / -24 / -18 / -12 / -6 / -3 / 0 / +3 / +6 / +9 / +12 / +18dB
Expander/Gate Threshold.....	2 LED'S Gate open, Gate closed
Peak Limiter Threshold.....	1 LED for Indication of Limiter function
Function switch	LED indicator in each (except Level switch)

Power Supply

Mains Voltages USA/Canada...	105 - 125 VAC ~, 60 Hz
Mains Voltages Europe	215 - 254 VAC~, 50 / 60Hz
Power Consumption	10 Watts
Power inlet	Standard IEC receptacle/with fuse

Physical

Dimensions	1 3/4 (44.5 mm) x 19 (482.6 mm) x 7 3/4 (188 mm)
Net Weight.....	5 lbs., (2.3 kg)
Shipping Weight	7.5 lbs., (3.4 kg)

