

NANOAMP SERIES™ Summing Amplifier

SUM100 SUM100-RCA

The SUM100 Summing Amplifier is an inexpensive, high performance amplifier that is designed as a line level stereo to mono summing amplifier. It is also useful as a gain block, and as an impedance converter and summing for IHF (RCA type) signals.

The inputs provide balanced 40Kohm bridging impedance for line levels up to +24dBm. The high input impedance allows the SUM100 inputs to also bridge -10dBu (hi-fi, RCA plug) lines without loading.

Front panel, screwdriver adjust, full range gain controls provide 28dB gain at full clockwise rotation, unity gain at twelve o'clock and a smooth audio taper to full off. The output driver is a servo controlled, ground-sensing circuit, which will supply over +24dBm to 600 ohm balanced loads and +20dBu to high impedance, unbalanced loads. The SUM100 uses rugged XLR type input and output connectors.

Loop-through DC connectors allow several NANOAMPS to share a single external 24VDC power supply. Battery packs and DC-DC converters for portable use are also available.

Up to three amplifiers will mount side-by-side in only one 19-inch rack unit using the available rack mounting kits. NANOAMPS may also be neatly stacked or mounted side by- side on your desk with the available angled desk mounting kits.



- Font panel, screwdriver gain controls
- Loop-through DC connectors allow operation of multiple units from one power supply
- Rugged XLR type input and output connectors
- Up to three NANOAMPS will mount side-by-side in one 19-inch rack unit
- Supplied as table-top mounting; other mounting options available

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Technical Specifications

SUM100
SUM100-RCA

GAIN	+28dB Maximum
NOMINAL LEVELS	+4dBu in, +24dBm Out to 600 ohm balanced load
PEAK LEVELS	+22dBu in, +24dBm out to 600 ohm balanced load
NOISE 20kHz B.W.	-90dBm maximum output
HARMONIC DISTORTION	.02% Max. at Peak Level
20Hz to 20 kHz	.005% Max. at Nominal Level
FREQUENCY RESPONSE	+/- .25dB, 20 to 20,000 Hz
CROSSTALK	70dB Minimum at 10kHz
INPUT IMPEDANCE	Balanced, 40k Ohm bridging
OUTPUT IMPEDANCE	Balanced, 40 Ohms Maximum
DIMENSIONS	1.5" (3.8cm) H by 5.5" (14cm) W by 5.75" (14.6cm) D
WEIGHT	1.5 lb. (0.7kg) Net
CONNECTORS	XLR (Balanced input/outputs)
POWER	24VDC @ .07A, connector sleeve is positive
MODEL NUMBERS	SUM100 & SUM100-RCA
POWER SUPPLIES	All units require an external 24VDC power supply (WA100-1 supplied as standard). NanoAmps can share a single supply using loop thru DC cable P/N 20602-1. Do not exceed rated supply current.
WA100-1	Wall mount power supply (UL) 24 VDC @ .4 Amp, 115 VAC/60 Hz.
WA100-2	Table top power supply, 24 VDC @ .4 amp, 230VAC/50-60 Hz with IEC 320 Male 3 pin AC input connector. User supplies matching AC line cord for use with local power system.
20602-1	DC power cable assembly for looping the DC power between NanoAmp units.
WARRANTY	Limited, One Year Warranty