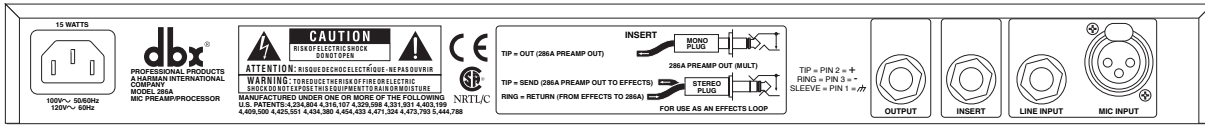
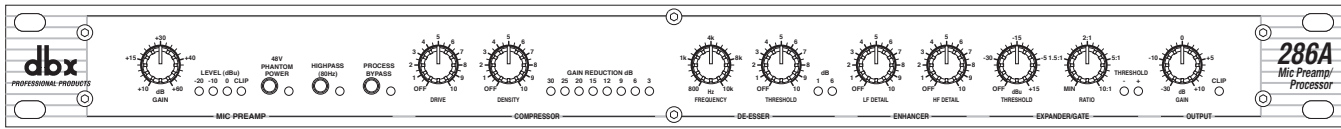


286A

MIC PREAMP / PROCESSOR



ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone processor shall have one channel with an audio frequency response of 20Hz — 20kHz +0.5, -0.5dB, an electronically floating balanced XLR microphone input with an impedance of not less than 1.5kΩ and with a maximum input level of not less than 0.2Vrms. The unit shall also have an electronically floating balanced 1/4" TRS line level input with an impedance of not less than 20kΩ and with a maximum input level of +21dBu. The impedance of the unbalanced 1/4" TRS output shall be no more than 100Ω with a maximum output level of not less than +21dBu. Total harmonic distortion shall typically be no more than 0.08% in operation with all processing controls set to Off. Dynamic range shall typically be 105dB with processing engaged. Output level shall be adjustable from -30dB to +10dB via a front panel gain control. A 1/4" TRS insert jack with an input impedance of not less than 5kΩ and maximum level of not less than +21dBu and an output impedance of not more than 100Ω and a maximum output level of not less than +21dBu shall be accessible at the rear panel. The insert shall be positioned in the signal path between the output of the mic preamplifier and the input to the processing section. The unit will provide up to six signal processing functions simultaneously, including: preamplification, compression, de-essing, high spectral enhancement, low spectral enhancement and downward expansion/gating. The compression circuitry shall employ a hybrid feed-back, feed-forward design and a soft knee compression curve. The microphone processor shall have a gain control ranging from +10dB to +60dB for Mic In and -20dB to +30dB for Line In, a phantom power switch which activates the +48VDC phantom power circuit, a High Pass Filter switch which activates a third order high pass filter with a 3dB corner frequency of 80Hz and a Process Bypass switch, which bypasses any subsequent dynamics processing in the unit. The processing section shall contain the following controls: Compressor Drive, Compressor Density, De-Esser Frequency, De-Esser Threshold, LF Detail, HF Detail, Expander/ Gate Threshold, Expansion Ratio and Output Gain. The following LEDs for metering and status indication shall exist on the unit: Input Level (3 LEDs), Input Clip, Phantom Power, High Pass Filter, Process Bypass, Compressor Gain Reduction (8 LEDs), De-esser (2 LEDs), Expander/Gate Threshold (2 LEDs), Output Clip. The power requirement shall be 100VAC 50/60Hz, 120VAC 60Hz for domestic or 230VAC 50/60Hz for Europe. Dimensions shall be 1.75" x 19" x 4" (4.45cm x 48.2cm x 10.16cm), The net weight shall be 4.68 lbs/2.13 Kgs and the shipping weight shall be 6.54 lbs/2.97 Kgs. The unit shall be a dbx 286A Mic Preamp/Processor.

SPECIFICATIONS

MIC INPUT	Floating balanced, Pin 2 Hot	Distortion	Typically <0.05%THD, 20Hz-20kHz, 15dB G/R, +10dBu Output, DENSITY @ 0
Impedance	1.75kΩ	DE-ESSER	
Maximum Level	0.2Vrms	Characteristic	Wideband Gain Reduction
Gain Adjustment Range	+10dB to +60dB	Frequency Range	800Hz to 10kHz High Pass, 12dB/octave Program-Dependent; approximately 1mS/dB
Phantom Power	+48VDC	Release Time	
CMRR	>40dB, typically 55dB	ENHANCER	
LINE INPUT	Floating balanced, TIP Hot	HF Detail Characteristic	Program-controlled shelving equalizer, approximately 15dB maximum HF boost
Impedance	30kΩ unbalanced, 60kΩ balanced	LF detail Characteristic	Bell-shaped boost @ 80Hz, bell-shaped cut @ 250Hz, ratio is approximately 2:1
Maximum Level	>+21dBu, balanced or unbalanced	EXPANDER/GATE	
Gain Adjustment Range	-20dB to +30 dB	Threshold Range	OFF to +15dBu
CMRR	>40dB, typically 55dB	Expansion Ratio	Adjustable 1.5:1 to 10:1
INSERT(4" TRS phone)	Normalled; tip is Send, ring is Return	Maximum Depth	>50dB
Ring :Impedance	>5kΩ	Attack Time	Program-Dependent, approximately 2mS
Maximum Level	>+21dBu	Release Time	Program-Dependent, approximately 10mS/dB
Tip: Impedance	100Ω	DYNAMIC RANGE	Typically 105dB
Maximum Level	>+21dBu, >+20dBm (600Ω load)	Power Requirements	15 Watts
Noise	<-84dBu, unweighted (20Hz-20kHz);	Operating Voltage	DO: 120VAC 60Hz, 100VAC 50/60Hz; EU: 230VAC 50/60Hz
Distortion	<0.01% THD, 20Hz-20kHz, +10dBu	Operating Temperature	0°C to 45°C (32°F to 113°F)
LINE OUTPUT (4" TRS phone)	Balanced/Unbalanced	Dimensions	1.75" x 5.75" x 19" (4.5cm x 14.6cm x 48.5cm)
Impedance	100Ω unbalanced, 200Ω balanced	Weight	Net Weight: 4.68 lbs/2.13 Kgs Shipping Weight: 6.54 lbs/2.97 Kgs
Maximum Level	>+21dBu, >+20dBm (600Ω load)		
Gain Adjustment Range	-30dB to +10dB		
Noise	<-80dBu (typically -85dBu, unweighted (20Hz-20kHz);		
Frequency Response	20Hz to 20kHz, +0.5, -0.5dB		
Distortion	<0.08%THD, 20Hz-20kHz, +10dBu, all Processing Controls OFF		
COMPRESSOR			
Threshold Range	-40dBu to +20dBu		
Threshold Characteristics	OverEasy®		
Compression Ratio	>4:1 For input levels beyond 20dB above threshold		
Maximum Compression	30dB		
Attack Time	Program-Dependent; adjustable		
Release Time	Program-Dependent; adjustable		

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.



A Harman International Company

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