

1086 MIC PRE / PROCESSOR

dbx[®]
PROFESSIONAL PRODUCTS

VISIONARY DESIGN

The dbx 1086 represents the digital wave of the future. After producing the world's most renowned series of compressors, the task of producing new technologies worthy of our reputation would be daunting for most engineers. Not for dbx. Now we introduce the 1086 Mic Pre / Processor. The 1086 features an ultra low-noise, extended headroom mic pre with a variable-frequency low-cut filter and unique low and high detail equalization controls. The mic pre section has +48V phantom power, a 20dB pad as well as a phase invert switch. Mic pre levels are visible on a classic dbx backlit custom VU meter. The 1086's mic pre can also be used independent of any other processing, via mic pre "out" connectors (1/4 inch and XLR!) on the rear panel.

The 1086 also has all the features that brought dbx to the forefront of dynamics control and processing: an award winning compressor, as well as a de-esser, an expander/gate, and a limiter. The dynamics processing section can also be accessed separately, making the 1086 two independent processors in one rack space. In the compressor, selectable hard-knee or OverEasy[®] characteristics make the 1086 ideal for your gain control needs, whether you're looking for "heavy" almost-special-effects compression or soft, smooth gain leveling. The de-esser is the dbx classic de-esser, featuring variable control for both threshold and frequency settings.

The expander/gate, made popular on the 1066, has threshold and ratio controls, coupled with a 2-LED meter for visual indication of the signal in relation to the threshold level. For overall speaker protection, our new patent-pending PeakStopPlus[™] limiter does all previous circuits one better. With its new design, PeakStopPlus[™] represses those unwanted transients from blowing your drivers while minimizing the distortion common to many "hard" limiters.

The 1086 is outfitted in the now standard dbx 10 Series design; lightpipe technology replaces standard LEDs found on most other units, making the unit both very easy to read and much easier to operate.

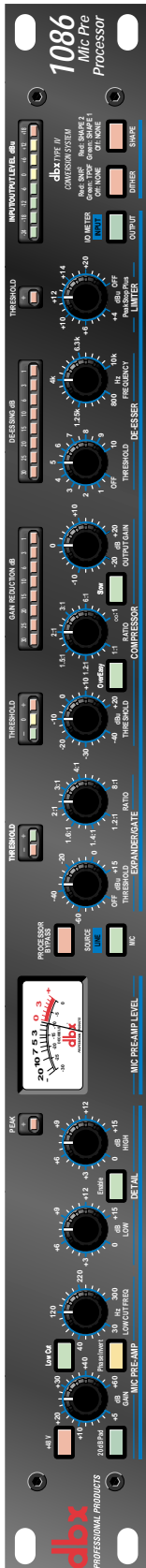
Couple this feature set with the best high-resolution analog to digital processing around, the **TYPE IV[™]** Conversion System, and you have the 1086. Ultimate flexibility and control in the digital domain. The 1086 is ideal for digital workstation recording or with the modular digital multitrack machines now on the market. Bring the warmth of the original analog signal into the digital domain with **TYPE IV[™]**. We're dbx, and we're bringing our industry-standard dynamics processing into today's digital pro-audio marketplace.

FEATURES

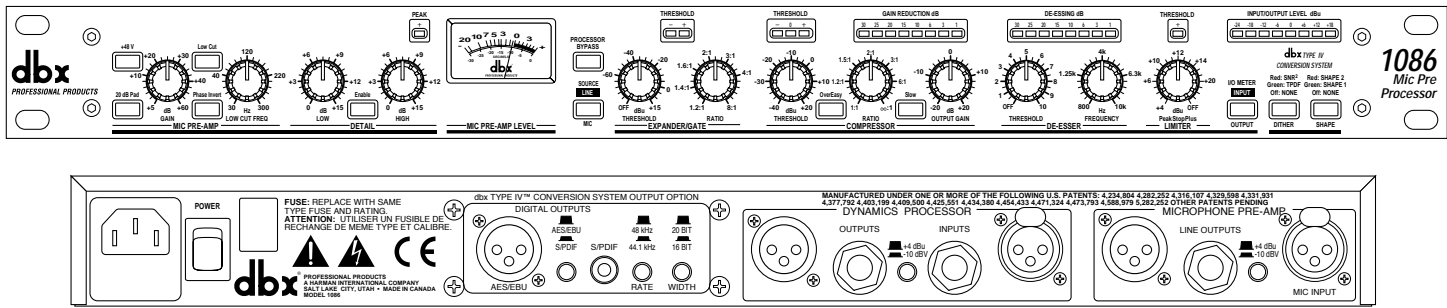
- Premium low-noise mic pre capable of going direct-to-tape, or straight into a DAW
- Classic dbx dynamics processing for recording or live sound
- Prevents overload
- Bypass inferior digital converters on DAT machines and DAW hardware
- Protect speaker components
- Transfer between analog and digital media

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H A Harman International Company



MIC PRE / PROCESSOR



REVOLUTIONARY ENGINEERING

- Ultra low-noise, high-headroom premium mic pre
- Mic pre levels shown on a classic dbx custom VU meter
- Unique high and low “detail” equalization adds space to any voice/instrument
- Variable frequency low-cut filter
- Selectable hard knee or OverEasy® compression modes
- De-esser with variable threshold and frequency settings
- PeakStopPlus™ limiting for setting maximum allowable level with minimal distortion

- Processing section is independently bypassable
- Full complement of meters show status of each processor section
- Optional dbx TYPE IV™ Conversion System accessible from front panel
- Switchable +4dBu or -10dBV operation
- Mic/Line input selector switch on front panel for the processor
- Lightpipe technology replaces standard LEDs for easy reading and operation

SPECIFICATIONS

<p>Mic Pre Input</p> <p>Connector: Female XLR (Pin 2 hot)</p> <p>Type: Extended headroom instrumentation amplifier Electronically balanced/unbalanced, RF filtered</p> <p>Impedance: 1.7kΩ</p> <p>Max Input Level: >+34dBu balanced or unbalanced (Pad in) >+16dBu balanced or unbalanced (Pad out)</p> <p>CMRR: >40dB at 1 kHz, typically >55dB</p> <p>Mic Pre Outputs</p> <p>Connectors: XLR and 1/4" TRS (Pin 2 and tip hot)</p> <p>Type: Servo-balanced/unbalanced, RF filtered</p> <p>Impedance: Balanced 120Ω, unbalanced 60Ω</p> <p>Max Output Level: >+21dBu, >+20 dBm (into 600Ω) unbalanced/unbalanced</p> <p>Nominal Output Level: -10dBV or +4dBu, switchable on rear panel</p> <p>Dynamics Processor Inputs</p> <p>Connector: Female XLR and 1/4" TRS (Pin 2 and tip hot)</p> <p>Type: Electronically balanced/unbalanced, RF filtered</p> <p>Impedance: Balanced >50kΩ, unbalanced >25kΩ</p> <p>Max Input Level: >+24dBu balanced or unbalanced</p> <p>Nominal Input Level: -10dBV or +4dBu, switchable on rear panel</p> <p>CMRR: >40dB at 1 kHz, typically >55dB</p> <p>Dynamics Processor Outputs</p> <p>Connectors: Male XLR and 1/4" TRS (Pin 2 and tip hot)</p> <p>Type: Servo-balanced/unbalanced, RF filtered</p> <p>Impedance: Balanced 120Ω, unbalanced 60Ω</p> <p>Max Output Level: >+21dBu, >+20 dBm (into 600Ω) unbalanced/unbalanced</p> <p>Nominal Output Level: -10dBV or +4dBu, switchable on rear panel</p> <p>Mic Pre System Performance</p> <p>Equivalent Input Noise (EIN): -122dBu typical, 22kHz measurement bandwidth, unweighted</p> <p>Bandwidth: <10Hz to >100kHz, +0/-0.5 dB</p>	<p>Frequency Response: <5Hz to >250kHz, +0/-3 dB</p> <p>THD+Noise: 0.005% typical, 150Ω source, 30dB gain, 1kHz</p> <p>Dynamics Processor System Performance</p> <p>Bandwidth, unweighted: <10Hz to >75kHz, +0/-0.5 dB</p> <p>Frequency Response: <5Hz to >180kHz, +0/-3 dB</p> <p>Noise: <-92dBu, unweighted, 22kHz measurement bandwidth</p> <p>Dynamic Range: 119dB typical</p> <p>THD+Noise: 0.009% typical at +4dBu, 1kHz, unity gain 0.05% typical at +20dBu, 1kHz, unity gain <0.1% any amount of compression up to 30dB, 1kHz</p> <p>IMD: <0.1% SMPTE, any amount of compression up to 30dB</p> <p>VCA: dbx V2™</p> <p>General</p> <p>Signal Source: Mic Pre Output or Processor line input, front panel switch</p> <p>Processor Bypass: Front panel switch</p> <p>Input/Output Meter: 8-segment LED bar graph at -24, -18, -12, -6, 0, +6, +12 and +18dBu</p> <p>Meter Source: Input level or Output level, front panel switch</p> <p>Options</p> <p>Mic Pre Output Transformer: Jensen@JT-123-dbx or JT-11-dbx, BCI™ RE-123-dbx or RE-11-dbx</p> <p>Processor Output Transformer: Jensen@JT-123-dbx or JT-11-dbx, BCI™ RE-123-dbx or RE-11-dbx</p> <p>Digital Output:</p> <p>Dither: Off, TPDF, or dbx SNR2™ dither, front panel switch</p> <p>Noise Shaping: Off, dbx Shape 1, or dbx Shape 2, front panel switch</p> <p>Format: AES/EBU or S/PDIF, rear panel switch</p> <p>Sample Rate: 44.1 or 48kHz, rear panel switch</p> <p>Word Length: 16- or 20-bit, rear panel switch</p>
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dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.