The dbx 1066 is the Stereo Compressor/Limiter/Gate of the 90’s. After producing the world’s most renown series of compressors, the task of producing a new compressor worthy of our reputation would be daunting for most engineers. Not for dbx. Our engineers know audio like no one else in the world. Now the fruits of their talents are available to you in the form of the 1066 Stereo Compressor/Limiter/Gate.

Want to instantly add that classic dbx response to your mix? It’s there at the touch of the “Auto” button. Or use the independent Attack and Release controls to tailor the 1066 to your specific needs. Unwanted frequencies or mic bleed in the signal path? Frequency dependent gain control is a snap to set up and execute with our Side Chain External button (SC Ext). Use the Side Chain Monitor button (SC Mon) and your favorite EQ to dial in the specific frequencies you want to trigger the device. As has become our standard, the contour switch allows entire mixes to be easily smoothed with soft compression while keeping low frequencies from punching holes in the overall mix. Selectable input and output metering allow you to make sure that everything is matched up level-wise, maximizing your signal-to-noise ratio.

For overall speaker protection, our new PeakStopPlus™ does all previous circuits one better. With a new design, the PeakStopPlus™ represses those unwanted transients from blowing your drivers while minimizing the distortion common to many other “hard” limiters. Selectable Hard-Knee or OverEasy® characteristics make the 1066 ideal for your gain control needs, whether you’re looking for “heavy” almost-special-effects compression or soft, smooth gain leveling. New lightpipe technology replaces standard LED’s found on most other units, making the 1066 both very easy to read and much easier to operate.

In the studio, broadcast facility or on the road with a P.A. system, the 1066 is designed for perfectly simple operation. The 1066 allows you to eliminate unwanted signals, flexibly control overall signal gain and guard your overall mix in dual mono or stereo operation.

At the heart of the 1066 is our new dbx V2™ VCA. Developed especially for the 1066, 1046 and other 10 series products to come, this revolutionary VCA boasts superb dynamic range characteristics while maintaining very low distortion and almost immeasurable noise characteristics. The bottom line is this: a new VCA working in conjunction with world class design makes the dbx 1066 perform better than compressors selling for hundreds more.

State-of-the-art VCA’s, meticulous component selection, and scrupulous testing procedures are just a few more reasons that the new dbx 1066 is the latest in a long line of pedigreed dbx signal processors.
The compressor/limiter/gate shall have two identical channels, each with an audio frequency response of 20Hz to 20kHz, ±0.5dB, an electronically balanced floating input impedance of not less than 40kΩ, balanced and 20kΩ unbalanced, and a maximum input level of not less than +22dBu and 1/4" TRS and XLR connectors. The output shall have an impedance of no more than 120Q balanced or 60Ω unbalanced with a maximum output level of not less than +20dBm, into a minimum load impedance of 600Ω and 1/4" TRS and XLR type connectors. The unit shall also have a sidechain detector with an input impedance of not less than 10kΩ unbalanced, a maximum input level of not less than +24dBu and a maximum output level of not less than +21dBu balanced or unbalanced and an output impedance of not more than 2kΩ balanced and 1kΩ unbalanced. Sidechain input jack shall be a 1/4" TS jack; sidechain output shall be a 1/4" TRS jack.

Total Harmonic Distortion plus Noise shall be less than 0.1% with any amount of compression (up to 40dB) at 1kHz and Intermoduleation Distortion shall be less than 0.1% 1% SMPE. The unit shall have an Equivalent Input Noise level of not more than -96dBu unweighted, and a dynamic range of not less than 118dB. Output gain adjustment shall be variable from -20 to +20dB. The compression threshold range shall be variable from -40 to +20dBu and compression ratio shall be variable from 1:1 to ∞. The peak limiter threshold range shall be variable from 4 to +24dBu. The compressor attack and release times shall be selectable for both program dependent or manually adjustable, scalable, program dependent operation. The compression ratio characteristic shall be selectable for either the hard or soft knee curve type with a maximum compression of no less than 60dB. The expander/gate shall have a threshold of ∞ to no less than +15dBu, an attack time of no more than 100µsec, a program-dependent release time and a downward expansion ratio variable from 1:1 to ∞.15. All input, output and control signals shall be via the rear panel. The stereo link shall be of the true RMS summing type with Channel 1 as the host when linked. The unit shall have the following front panel switches and options for each channel, with each switch incorporating an integral LED to signal selection of that switch: Sidechain Monitor, Sidechain Bypass, OverEasy, Contour, Auto, I/O Meter, and Bypass. There shall also be one Stereo Link switch. Each channel shall have the following identical controls: expander/gate Threshold, expander/gate Ratio, compression Threshold, compression Ratio, compression Attack time, compression Release time, Output Gain, limiter Threshold; and the following identical metering and indicator LEDs for each channel: Below/Above gate threshold, Gain Reduction (12 LEDs), Input or Output Level (8 LEDs), peak limiter active. There shall be a rear panel switch for each channel to select nominal input and output operating levels at -10dBV or +4dBu. The unit shall be capable of accepting one compatible audio transformer installed for each channel. The power requirements shall be 100-120VAC 50/60Hz or 200-240VAC, 50/60Hz, 20W, with a detachable IEC type AC cable. The size of the unit shall be 1.75 x 19" x 7.9" (4.4cmx48.3cmx20.1cm) with a net weight of 5.11 lbs (2.3 kg) and a shipping weight of 7.5 lbs (3.4 kg). The 1U high, full rack width stereo compressor/limiter/gate shall be a dbx 1066.

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