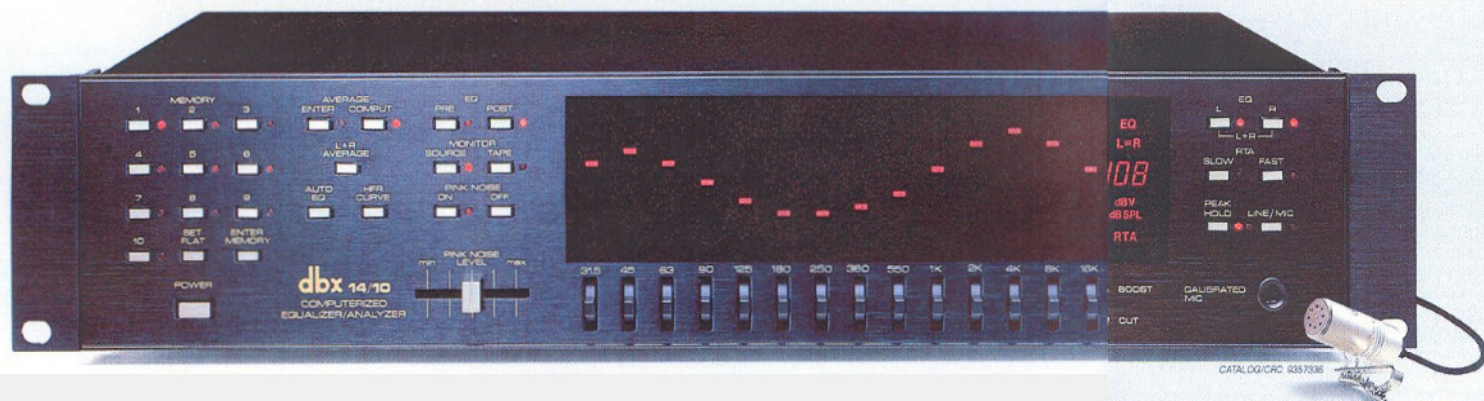


A Foolproof Method for Getting Just the Right Response



14/10

Computerized Equalizer/Analyzer

The dbx 14/10 is really four components in one. It's a microprocessor-controlled 14-band graphic equalizer. It's a real-time analysis display. It's a stereo pink noise generator. And it's a digital sound-level meter.

You probably have heard how well equalizers work in bringing dramatic improvements to the sound of hi-fi systems—accurate tonal balance, realistic sound, sharp definition of every instrument. But is it really true?

It is not, and that's why there are a plethora of automated equalizers that do not rely on the inaccurate frequency measuring apparatus—the human ear—but on microcomputers.

But how is dbx 14/10 different from run-of-the-mill automatic equalizers? One, its RTA (Real-Time Analyzer) has the precision of professional measuring equipment. Two, the "Q" of each filter is constant (not variable as it is with other

equalizers), so that interference between bands is kept to a minimum. And three, the built-in computer repeats the measure-and-equalize process over and over until the response is as flat as technically possible.

Operation is simple and easy. Place the microphone (supplied with the unit) at the listening position, turn on the pink-noise generator, adjust its output, and press the AUTO EQ button. Within 15 seconds (on the average), the 14/10 will equalize that location with accuracy that only a computer can provide. In that short time, the computer analyzes the pink noise that reaches the microphone and automatically establishes the proper equalization curve for flat response.

For convenience, the 14/10 has ten memory banks that let you store not only room equalizations but also your own personalized equalization curves. Using them during dubbing, you can make tapes that will sound crisp and balanced in the car or on headphone stereos.

The 14 controllable frequencies are 31.5Hz, 45Hz, 63Hz, 90Hz, 125Hz, 180Hz, 250Hz, 360Hz, 550Hz, 1kHz, 2kHz, 4kHz, 8kHz and 16kHz. As you can see, there's a control for each octave above 500Hz, but below that frequency, there's one control for each half octave. Finer resolution at lower frequencies ensures better equalization accuracy in any room.

The 14/10 is a 14-band automatic real-time spectrum analyzer. Press the RTA (Real-Time Analysis) button to get a continuous readout of the volume levels at all frequency bands: you can actually watch the music as you listen. RTA sensitivity is automatically adjusted to facilitate display reading at any level. And two response speeds are available: the SLOW position makes the meter respond like a VU meter, while the FAST position turns it into a "peak" meter.

The 14/10 is also a digital sound-level indicator, showing a continuous measure of the total volume level of your music in digits.

Moreover, the 14/10 includes an HFR (High-Frequency Rolloff) CURVE control that softens high-frequency response to recreate the acoustics of a concert hall. It also automatically averages a number of different equalizations stored in the memory banks for the best tonal balance over a wide listening area. Also featured are LED readouts on all 14 bands and precision electronic switches for manual equalization, channel by channel or both channels simultaneously.

Last but not least, each 14/10 comes with a microphone that is individually calibrated at the factory for that unit. This guarantees the most precise room equalization.