

# 10/20

## Computerized Equalizer/Analyzer

The dbx 10/20 is the automatic equalizing system—four components in one.

It is a microprocessor-controlled 10-band octave equalizer. It is a real-time analyzer. It is a pink-noise generator. It is a sound-pressure-level meter. And it comes with a calibrated microphone.

Unlike other equalizers, the 10/20 automatically compensates for the effects furniture, drapes, carpets and other acoustical variables in your room may have on sound quality. The result is highly accurate tonal balance and sharp definition of every instrument. In a word, more realistic sound.

To equalize a room, simply place the microphone at any desired listening position, then turn on the pink-noise generator. The computer in the 10/20 automatically determines the equalization curve that results in optimally flat sound. In only a few seconds.

And because the 10/20 has ten memory buttons, you can equalize each of your favorite listening positions, then

store them for later recall. You can even make up and store your own personalized equalization settings, or special settings for improving the sound of tapes for play on car stereos or headphone stereos, where frequency response is often poor or irregular.

The 10/20 will also average several listening positions automatically to give you the best possible frequency response over the widest possible area. It will also equalize speakers separately or as a stereo pair.

Some of the other advanced features of the 10/20 include LED readouts on all ten bands, precision switches instead of traditional slider controls for UP/DOWN manual adjustment, a sharp and inaudible infrasonic filter, and a high-frequency roll-off (HFR) that automatically simulates the response of a music hall.

The dbx 10/20 is the state of the art in equalizers, and a must for anyone who is truly serious about high fidelity.

### Specifications

#### EQUALIZER

Center Frequencies	31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16kHz
Control Range	± 12dB (one band at maximum or minimum with all others centered)
Resolution of Settings	1dB
Accuracy of Equalizer	± 1.4dB at full boost or cut
Max. Input Level	5V
Max. Output Level	5V
Input Impedance	47k ohms
Output Impedance	330 ohms
Total Harmonic Distortion	0.03% (at 20Hz—20kHz)
Equivalent Input Noise	-95dBVA

#### ANALYZER SECTION

Number of Bands	10
Center Frequencies	Same as Equalizer
Resolution	1dB
Relative Accuracy	± 1dB
Readouts	25 LEDs for 10-band display, one illuminated per band

#### SPL METER

Bandwidth (at 90dB SPL Input)	15Hz—20kHz
Dynamic Range	80dB
Resolution	1dB
Relative Accuracy	± 3dB
Detector Type	rms
Readouts	Same as Analyzer

#### PINK-NOISE GENERATOR

Type	Digital pseudo-random white-noise source, with analog filtering for 3dB/octave roll-off, uncorrelated
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#### Accuracy

-3dB/octave curve from 20Hz to 20kHz within ±0.5dB  
Variable via front-panel slider

#### Output Level MICROPHONE

Type Electret condenser

#### Directional

Characteristic Omnidirectional

Impedance 2k-ohms at 1kHz

Frequency Response ± 1dB 20Hz—20kHz

Power Requirements Supplied by dbx 10/20

Cord Length 20'

#### GENERAL

Power Requirements 120V, 60Hz

Batteries 2 AA size (included)

Dimensions (W × H × D) 17-1/8" × 3-1/2" × 11-7/8"

Weight 17-5/8 lbs.