



IE-20B

PINK AND WHITE NOISE GENERATOR



Small enough to hold in your hand...
powerful enough to handle your
toughest audio applications.



**A pocket-sized
noise generator
from Ivie.**

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Packaging

THE IE-20B COMES WITH:

- IE-20B Noise Generator
- "Fast charge" nickel cadmium batteries
- AC adapter charger that provides continuous line operation
- Cordura™ carrying case with belt loop
- Standard phono plug patch cord
- Operator's Manual with illustrations and examples

Portability, Economy and Unparalleled Performance

The IE-20B is a truly portable, state-of-the-art noise generator designed to handle the most stringent laboratory requirements. Unlike gas-discharge tube and noise diode methods, the digital techniques used in the IE-20B allow the generation of noise signals that are statistically well-defined and extremely stable.

The IE-20B Noise Generator makes audio analysis fast and convenient. It operates for more than ten hours without a battery recharge and a low battery indicator warns the operator when recharging is necessary.

For most applications the need to use long cables is eliminated because the IE-20B is a self-contained noise generator that can be placed right at the point of signal input. It is so small and inexpensive that it could be built into an existing audio system for use as a permanent test signal.

The IE-20B has a calibratable output and a built-in precision attenuator that provides up to 58 dB attenuation in 2 dB steps. From the measurement of amplifiers, limiters, compressors and expanders to the equalization and alignment of tape recorders, the IE-20B drives a wide spectrum of audio equipment.

Typical of Ivie's uncompromised quality, the IE-20B's circuitry and powder bonded aluminum case are designed for a lifetime of service. It's small enough to be with you when you need it, yet rugged enough for day-in, day-out use.

Specifications

FREQUENCY RANGE

- 10 Hz to 40 Hz 3 dB bandwidth
- 20 Hz to 20 kHz \pm 0.5 dB

OUTPUT

- Variable output reference levels:
 - Pink noise 0-1.0 Vrms
 - White noise 0-0.65 Vrms
- Crest factor 3.75
- Output attenuation selectable in 2 dB increments from 0 dB to 58 dB. Cumulative error not more than \pm 0.5 dB for load \geq 600 ohms
- Short circuit protected
- Output connector: standard phono jack

NOISE GENERATION

- Digitally generated by CMOS circuitry
- Word length greater than 2 billion bits
- Clock rate: 250 kHz
- Word repetition time: 2.4 hours
- 6-Pole filter ensures superior flatness

POWER

- Battery operation: rechargeable nickel cadmium
- Operating time approximately 10 hours continuous @ 25°C
- Fast charge cycle of 3 hours
- Low battery indicator light
- AC line operation from adapter charger
- 115/230 VAC 50/60 Hz
- Charge indicator light

ENVIRONMENTAL

- All circuits temperature compensated
- Operating temperature -10°C to +50°C
- Non-operating temperature -30°C to +65°C
- Operating humidity 0 to 90%

MECHANICAL

- Aluminum case: fusion bonded with powder coat
- Dimensions (w x h x d) 69x69x39 mm (approx. 2 x 2 x 1 5/8 in.)
- Weight: net 200 gms (approx. 7 oz.)
- Shipping: 680 gms (approx. 1 lb.)

WARRANTY

The IE-20B is warranted against defects in materials and workmanship for one (1) year from the date of purchase. During the warranty period, Ivie will repair or, at its option, replace components which prove to be defective provided the unit is returned, shipping prepaid, to an authorized Ivie service facility. Defects caused by modifications, misuse or accidents are not covered by this warranty. No other warranties are expressed or implied. Ivie is not liable for consequential damages. All requests for repairs and information should include the instrument serial number to assure rapid service.



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