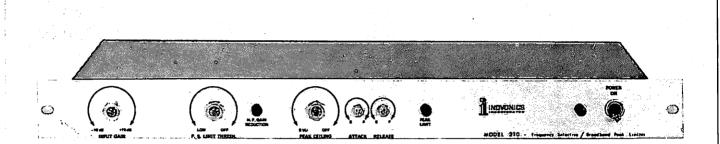


MODEL 210

FREQUENCY SELECTIVE/BROADBAND PEAK

LIMITER



For use in Broadcast and Recording applications requiring independent control of both high frequency program energy and broadband program peaks.

FEATURES:

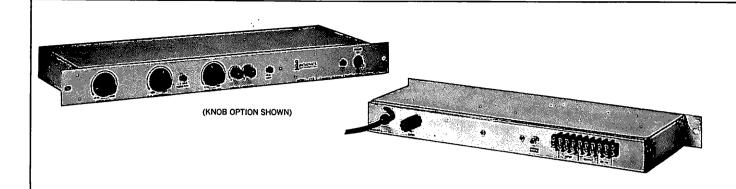
Fast Peak Limiter with variable control of Peak Ceiling, Attack and Release.

Separate Frequency Selective Limiter with plug-in inserts to complement a variety of high frequency overload characteristics.

Very Low Distortion, even at low frequencies, assured by unique ripple-cancelling circuits.

Instant Display of limiting action by peak-responding indicators. Optional remotemounting meter may be located at console.

MODEL 210 SPECIFICATIONS



Frequency Response (1)

±0.5dB 20Hz - 20kHz

Signal-to-Noise Ratio

>75dB, 20Hz - 20kHz referred to +4dBm line level

Distortion (2)

 $_{\mbox{\colored}}$ V50Hz-200Hz 200Hz-20kHz Peak Limiter S (normal) Release: < 0.5% < 0.3%

F (fast) Release: <0.8% <0.4% Freq. Selective Limiter: - <0.5% Limiters OFF: <0.15%, 20Hz-20kHz at +23dBm

Limiter Timing (3)

Peak Limiter

ATTACK: continuously variable between a "normal" setting of $1\mu s/dB$ -limiting (F) and a "delayed" figure of 1ms/db-limiting (S) RELEASE: continuously variable between a "normal" setting of 30ms/dB-limiting (S) and 6ms/dB-limiting (F)

Frequency Selective Limiter

ATTACK: <1μs/dB-limiting (fixed)

RELEASE: 50ms (max) for any degree of reduction.

Stereo Coupling

Two or more units may be interconnected for ganged peak reduction.

Input

Sensitivity: Adjusts to accommodate input levels between -15 and +10VU.

Impedance: 100K, unbalanced (transformer optional)

(1) Response below threshold of Frequency Selective Limiter.

Output

Line output feeds 600 ohm line or bridging input at +4 or +8dBm. Clipping level +24dBm.

Frequency Selective Limiting Characteristic

Plug-in inserts complement a wide range of high frequency overload characteristics.

Available from stock: 75µs (FM-TV Audio), TAPE (1%-3%ips formats), DE-ESS Inserts custom-tailored to user specifications

available on special order.

Panel Controls

POWER
INPUT GAIN
Peak Limiter
PEAK CEILING
ATTACK
RELEASE
Frequency Selective Limiter
F. S. LIMIT THRESH.

Panel Indicators

Peak-responding indicators display Peak Limiting and High Freq. Gain Reduction.

Power Requirement

105-130VAC (230V available), 50/60Hz, 10 watts

Size and Shipping Weight

1¾" x 19" x 6½", 9 lbs.

Accessories

Remote-mounting Gain Reduction Meter Input isolation transformer

- (2) Total Harmonic Distortion at +4dBm line level with 15dB Peak Limiting or High Frequency Gain Reduction.
- (3) Attack and Release are not linear time-per-dB-of-limiting characteristics. The specified figures represent Best Straight Line approximations of these characteristics over the greatest portion of their operating values.

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