

Tunner M2

Radio Receiver



RESUME

RADIO RECEIVER, AM/FM, 40 MEMORIES, WITH VU METER

AM/FM radio receiver with Professional characteristics, digital display up to 40 storage memories for each band with digital VU modulation level meter.

Tunner M2 can be used to monitor with precision and fidelity the audio transmitted by an AM or FM radio station, its electronic circuit was developed for professional applications and has high linearity in audio demodulation and fidelity on frequency response. Has balanced audio outputs on the back panel with XLR connectors and AM and FM antenna inputs with BNC connectors.

In its front panel, the equipment has a phone amplifier with high power and sound fidelity, a LCD display and buttons to access the adjustment parameters of the product such as frequency tunes, memories, etc., also a high precision digital VU that measures the stations modulation level. It is important to mention that this equipment is a tuner with VU that measures the modulation, it is not possible to measure the pilot level (19KHz) as well as (L+R) and (L-R) levels. It is possible to store up to 40 different stations on both AM and FM bands and the equipment also has automatic frequency search resources and sleep function.

Can be used in radio stations as a receiver to monitor the high fidelity or general sounds, has characteristics for professional applications. Provided in rack standard size and brushed stainless steel panel. Power input Full Range – 90 to 240V / 47 to 63Hz.

US (Harmonized Code):

8527.99.15.00

DIMENTIONS (Rack standard - WxHxD):

- 482,6 mm x 44,5 mm x mm;
- 19" x 1,75" x" pol.;

WEIGHT:

- 1,70 Kg without package;
- 2,50 Kg with package.

CUBAGE:

- 0,017577m³



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TECHNICAL CHARACTERISTICS

RADIO TUNER

- Automatic or manual tuner
- FM Antenna: 75 Ohms, unbalanced;
- AM Antenna: 75 Ohms, unbalanced;
- 10 memories for AM / 10 memories for FM;
- Sleep function adjustable from 10 to 90 min.

FM SESSION

- Frequency range: 87.5MHz to 108.0MHz;
- FI frequency: 10.7MHz;
- Sensibility 30dB: $\leq 10\mu\text{V}$;
- S/N for 1mV: $\geq 60\text{dB}$;
- FI rejection: $\geq 80\text{dB}$;
- THD for 1mV@40KHz deviation: $\leq 1\%$;
- Stereo separation @1kHz: $\geq 45\text{dB}$;
- Auto Scan sensibility: $\leq 50\mu\text{V}$;
- AM Suppression / 1mV entry level / 30% modulation: $\geq 50\text{dB}$.

HEADPHONE AMPLIFIER

- Type: Stereo with volume control on the front panel;
- Minimum impedance: 8 Ohms;
- Maximum power 8 Ohms: 4W each channel
- Frequency response: 10Hz to 30kHz (0.1dB)

VU METER

- Leds VU with 40 leds each bar, 30 green and 10 red;
- Measure scale: 20 to 150% modulation;
 - First 11 leds (20 to 60% modulation) with spacing of 4 in 4% modulation;
 - From 60% to 100% modulation, spacing of 2 in 2% of modulation;
 - From 100% to 150% modulation, spacing of 5 in 5% of modulation;
- Digital controlled VU by microprocessor;
- Peaks retention for a better reading view;
- PPM measure standard – 1.7ms attack x 650ms release;
- Types of measurement:
 - Left and right channel level on operation FM stereo;
 - Mono modulation level on operation AM: average of positive and negative peaks divided by 2.

AUDIO OUTPUT

- Type: Balanced Stereo +4dBu @ 100% modulation;
- Impedance: $< 150\text{ Ohms}$;
- Minimum charge impedance: $\geq 600\text{ Ohms}$;
- Connectors: XLR Male;
- Selectable de-emfasi: 50/75us on audio output and headphone through a jumper configurable internally.



There are many ways to use the TUNNER. This example the most accurately and usual connection of the equipment in a on air audio console, with the purpose of monitoring sound of air in the Studio.