



## IF Modulator

### MAIN CHARACTERISTICS:

- Front Panel display and LEDs indicator
- Remote control wired or by RS485 serial
- Compact mechanical structure
- Models Mono and Stereo (and Dual Sound) available
- Audio input on Front and Rear panel, balanced and unbalanced
- Video input on Front and Rear panel
- Digital adjustment of the Audio Input Level
- Digital adjustment of the Audio and Video Carrier Level
- Standard programmable by front panel
- 5 or 10MHz External Reference
- Universal power supply

The Eletttronika TV IF modulator is an high quality video and audio modulator for analog TV signals. All TV standards are covered with this modulator. The output frequency is the IF for different standards. Housed in a 19" - 1U rack, the equipment has a very compact structure. Audio and Video inputs are available on front and rear panel and are selectable by front panel display. The display helps the user to program the working modes and to read the audio and video input levels. Leds on front panel gives to the operator a quick view of the selected working mode and status.

Mono and Stereo (and Dual Sound) models are available. The Stereo

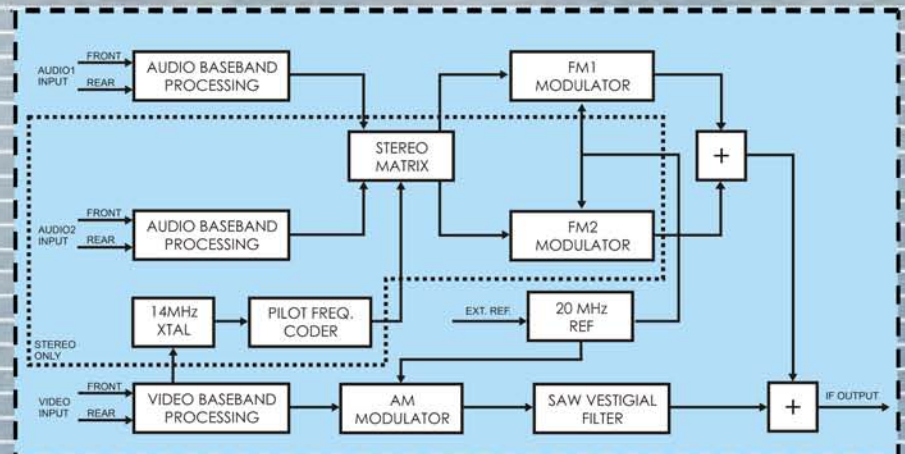
model can be easily setup by user for working in Mono, Stereo or Dual Sound operation.

The equipment can be controlled by remote by a wired telemetry connector or by RS485 serial on rear panel.

Eletttronika equipment is severely tested with highly accurate and professional laboratory testing instrumentation and is guaranteed by the ISO-9001 Quality Certification which ensures a perfectly managed production phase. Eletttronika equipment are currently used by valuable world-wide customers, which is the best certification for in-field performance over different operating environments.



▲ Rear panel





## IF MODULATOR

# Technical characteristics

### AUDIO SECTION

Connector	XLR on Front and Rear panel, selectable
Input Impedance	600Ω or 10kΩ, selectable
Input level	2.2Vpp ±8dB, 0.5dB step
Frequency response (30Hz to 15kHz)	±0.5dB (±0.2 typ.)
T.H.D. (30Hz to 15kHz)	< 0.4% (better than 0.2% typ.)
S/N FM CCIR Ratio	≥ 60dB weighted ≥ 60dB unweighted (ref. 50kHz)
S/N AM Ratio	≥ 70dB asynchronous ≥ 50dB synchronous (ref. 100%)
Pre-emphasis	50μs (75μs) or flat
Low Pass Filter	15kHz, 100kHz
Limitation Circuit	Δnom +1dB
Stereo/Dual sound operation	Selectable with AUDIO STEREO option
Stereo Crosstalk	> 37dB (better than 40dB typ.)

### VIDEO SECTION

Connector	BNC on Front and Rear panel, selectable
Input impedance	75Ω
Input level	1Vpp ±6dB
White limitation	90% ... 115% non affecting chrominance
2T K factor	< 1.5%
Frequency response	≤ ±0.5dB
Differential gain	< 5%
Differential phase	< 3°
Group delay	+35ns (throughout the vision band)
Sync pulse compression	< 3%
S/N Ratio (weighted)	> 60dB
ICPM	< 3°
Luminance non linearity	< 4%
Field time bar tilt	< 2%
Line time bar tilt	< 2%

### IF OUTPUT

Connector	SMB
Impedance	50Ω
Frequency	IF (depending on video standard)
Output level on Video Carrier	up to 0dBm (typ. -6dBm)

### GENERAL

Available Standard	B, D, G, H, I, K, M, N
Operating temperature	-10°C to +45°C
Mains power supply	90 to 260 Vac
External reference frequency input	5MHz or 10MHz
Dimensions	Rack 19" - 1U
Weight	4 kg
Telemetry	Wired and serial RS485 on rear panel

#### MODELS

MONO

STEREO



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*These specifications are subject to change without notice*