



# IGX-1000

## SPECIAL TV VIDEO SENDER FOR ALL UHF FREQUENCIES

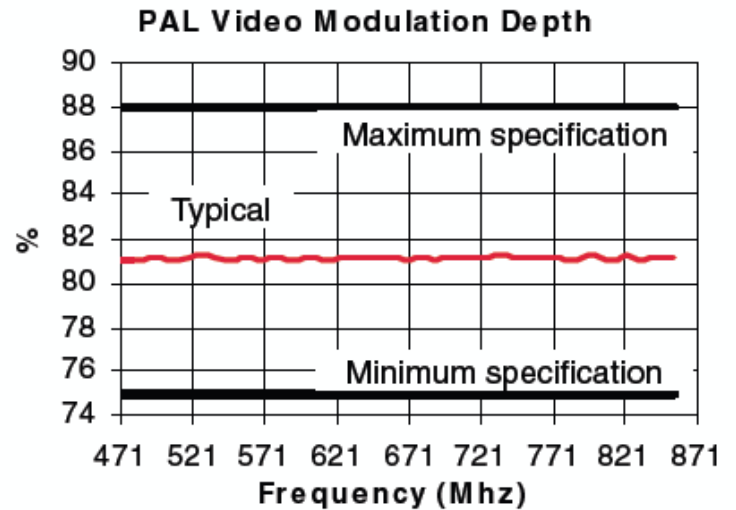
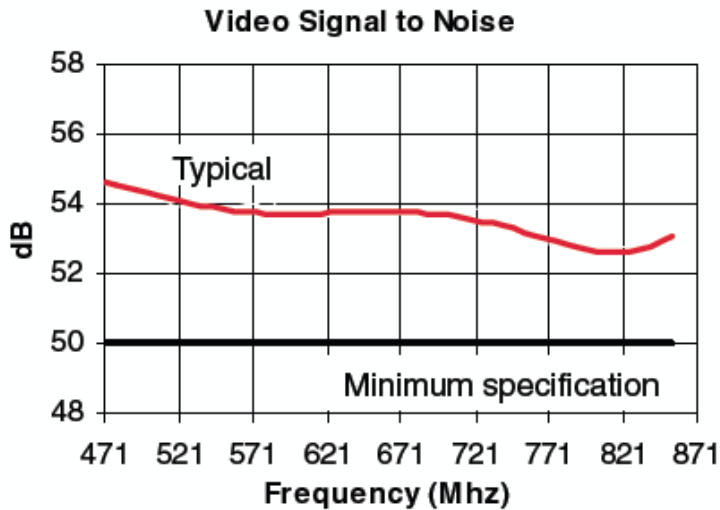


**The newest small wideband video sender IGX-1000 has arrived.** It has been designed for professionals in Film industry and TV production or any other use. This video transmitter works for ANY TV system and any country: PAL, NTSC, SECAM... This unit has an LCD display and you can set any frequency from, as low as 40 MHz, all the way to 928 MHz. The frequency step is adjustable. This amazing video transmitter has excellent performances with a built-in video filters. RF section of this transmitter is amazing- you can cover all channels without any retuning. Digital display indicates the UHF frequency. The bottom line of the display shows the carrier frequency that can be set to any TV system in any country. The range of this video sender is over 300 ft line-of sight. IGX-1000 has built-in an audio portion. Recommended receiver is M-806. A special matching antenna that covers entire UHF TV band is included. This unit out performs all video senders on the market. Recommended DC voltage is 12 V. This Video sender works from 12 V - 24 V DC,. The channel selection is simple by push buttons. Dimensions: 2.8 " X 1.5 " X0.75 " .

Technical Specifications	
Operating Frequencies:	39 MHz-928 MHz Continuous operation , no gaps, step 250 kHz
Channel:	ALL TV channels 14-69 UHF AIR + cable UHF channels + 900 MHz band etc...
DC Voltage:	12 V- 24 V
RF power:	50 mW – 100 mW
Minimum required voltage:	12.6 V
Battery power:	12.6 V - 32 V
Frequency stability:	+20 ppm
Video distortion:	2%
Maximum range:	From 300 ft + special antennas
Video Format:	PAL, NTSC, SECAM
Current Consumption:	230 mA / 12 V med. power unit, 650 mA high power unit
Antenna:	Rubber ducky included for UHF channels
Antenna Connector:	BNC or SMA
Impedance:	50 ohms
Video Connector:	<b>Hirose</b> professional connector
Video Impedance:	75 ohms
Audio carrier:	Adjustable on back panel 4.5, 5 , 5.5, 6 MHz
Video level:	1 V
Temperature Range:	-15 +65* C
Dimensions:	2.8" X 1.5 " X 0.75 "
Weight:	80 grams (100 grams)
Modulation:	Negative AM

# Video Characteristics

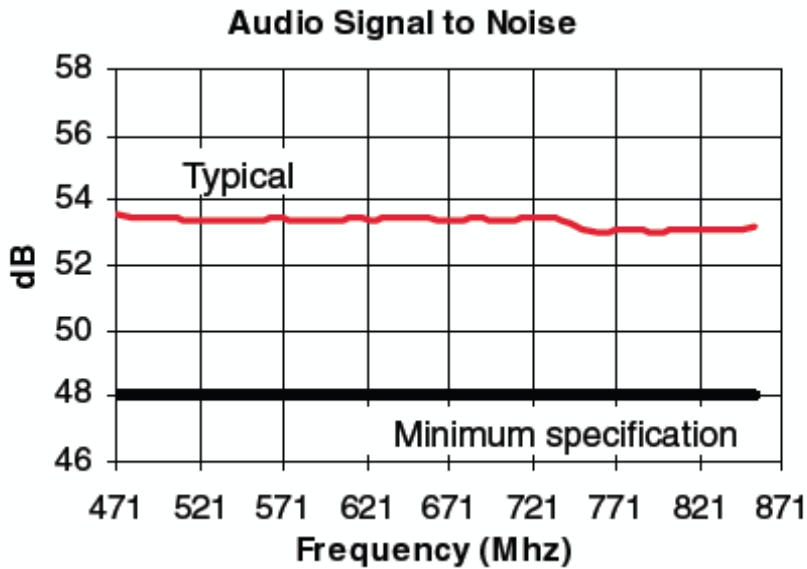
Parameter	Test Conditions	Min	Typ	Max	Unit
Video bandwidth	Reference 0 dB at 100 KHz, measured at 5 MHz.	-1.5	-0.8	—	dB
Video input level	75 Ohm load	—	—	1.5	Vcvbs
Video input current		—	0.2	1	μA
Video input impedance		500	—	—	KΩ
Peak White Clip	PWC bit set to 1.	110	114	118	%
Video S/N	Using CCIR Rec. 567 weighting filter	50	53	—	dB
	Unweighted .	45	—	—	
Differential Phase	CCIR Test Line 330, worst case from the first 4 steps out of 5.	-5	—	5	deg
Differential Gain	CCIR Test Line 310, worst case from the first 4 steps out of 5.	-5	—	5	%
Luma/Sync ratio	Input ratio 7.0:3.0	6.8/ 3.2	—	7.2/ 2.8	—
Video modulation depth		75	81	88	%



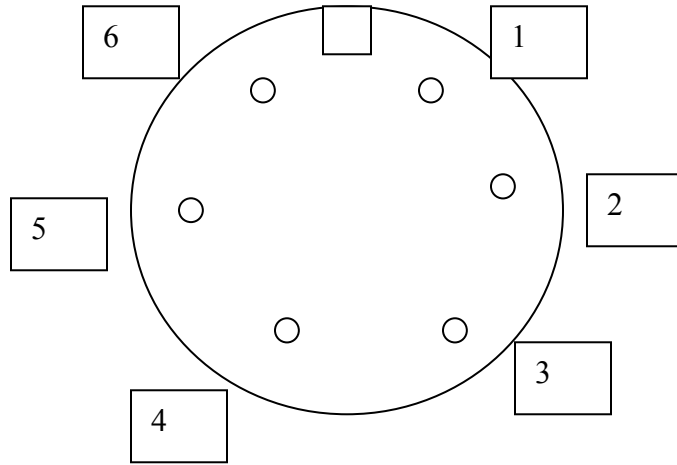
Typical performances

# Audio Characteristics

Parameter	Test Conditions	Min	Typ	Max	Unit
Picture-to-Sound ratio		13.9	16.12	19.15	dB
Audio modulation depth	FM modulation: $F_s=4.5, 5.5, 6$ or $6.5$ MHz 100% modulation= $\pm 50$ KHz FM deviation	—	80	—	%
	FM modulation: NTSC $F_s=4.5$ MHz 100% modulation= $\pm 25$ KHz FM deviation	—	80	—	%
Audio input resistance		45	53	61	K $\Omega$
Audio Frequency response	Reference 0 dB at 1 KHz, using specified pre-emphasis circuit, measure from 50Hz to 15 KHz	-2.5	—	+2	dB
Audio Distortion FM (THD only)	at 1 KHz, 100% modulation ( $\pm 50$ KHz) No video	—	0.4	2	%
Audio S/N with Sync Buzz FM		48	53	—	dB



Typical performances



**PIN LAYOUT, HIROSE CONNECTOR:**

1. GROUND – (NEGATIVE)
2. VIDEO INPUT
3. +Vcc 12 V to 32 V
4. VIDEO GROUND
5. + 24 TO 32 V
6. AUDIO INPUT