



- Full color touchscreen display
- Internal band pass filter (mask)
- Internal RF isolator
- 2 stage amplification
- Class A/AB operation
- Designed for adjacent operation
- Ultra efficient switching power supply
- 2 Year Warranty

RF CHARACTERISTICS

Frequency Range	TXV-1000H	VHF channel (7-13)
Frequency Response	± 0.5 dB	
Frequency Stability	±500 Hz	
Selectivity	60 dB (adjacent channel)	
Rated Visual Output Power	1000 watts peak sync	
Rated Aural Power	10% of peak visual power	
Input Impedance (ohms)	50 (into PA)	
Harmonics	> 60 dBc	
Spurious Emissions	> 60 dBc	
Predominant IMD	> 53 dBc	
3rd Order IMD	> 60 dBc	
Output Connector	N female	

NTSC VIDEO CHARACTERISTICS

Input Level to Modulator	1.0 Vp-p
Group Delay	Conforms to Industry Canada BETS-4 [Annex A 1.9]
Differential Phase	± 2 Degrees
Differential Gain	2 %
K-Factor	1.9% for 2T Pulse
Hum and Noise	> 60 dBc
Video Features	Sync Stretch (when paired with TM-150 or TM-160) Video Detection (when paired with TM-150 or TM-160)

AURAL CHARACTERISTICS

Input Level	0.3 Vp-p (for 25 kHz Deviation)
Frequency Response	± 1 dB
Harmonic Distortion	< 1% 50 Hz to 15 kHz
Inter-Carrier Stability	± 250 Hz
AM Noise	> 50 dB
FM Noise	> 60 dB

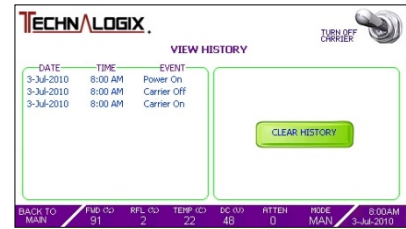
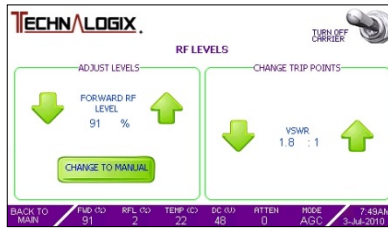
INTERFACE

DB25 Remote Port	Control:	RF carrier on/off, RF power up/down, reset
	Monitor:	Forward/reflected RF level, control PCB Vcc

The company that can.

VHF (Band III) Analog Transmitters

	Flags:	Amplifier overdrive, VSWR (adjustable trip point), high temperature
Ethernet	Control:	RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset
	Monitor:	Forward/reflected RF level, DC pallet voltage, RF input level, temperature, VSWR trip point, model/serial number
	Flags:	Carrier on/off, amplifier overdrive, DC pallet voltage, VSWR, RF input level, temperature, AGC/manual status
SNMP	Control:	RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset
	Monitor:	Forward/reflected RF level, DC pallet voltage, RF input level, temperature, pallet current, attenuation, run time, RF fault, model/serial number
	Flags:	Amplifier overdrive, VSWR, temperature, SNMP error



Screenshots of touchscreen interface

PHYSICAL FEATURES

Minimal Rack Space	TAV-1000H Amplifier	5U x 25"D x 19"W
	TM-150 or TM-160 Modulator	1U x 25"D x 19"W
Lightweight Enclosures	Aluminum, typically 80 lbs	
Operating Temperature	0 to +45° C	
Humidity	90%, non-condensing	

ELECTRICAL CHARACTERISTICS

Flexible AC Input	TAV-1000H Amplifier	180-264Vac (can also be set up for 220Vac, single phase)
	TM-150 or TM-160 Modulator	110/220Vac option
	Other AC supply voltages and phases available on request	

TYPICAL BLOCK DIAGRAM

