

SPECIFICATIONS

Video Input

Connector:	"F" Female
Input Level:	1.0 volt Peak-to-Peak (87.5% depth of modulation)
Frequency Response:	1.5 dB Peak-to-Valley (fv-0.5 to fv+4.2 MHz)
Video-to-RMS Hum Ratio:	65 dB Peak-to-Peak
Signal-to-Noise Ratio:	58 dB (Weighted; at 4 MHz bandwidth)
Differential Gain:	2.0% (87.5% depth of modulation)
Differential Phase:	1.0 degree (87.5% depth of modulation)
Over-modulation Indicator:	87.5% ±2.5%
Chrominance/Luminance Delay:	Per FCC Requirements
Impedance:	75 Ω
Return Loss:	18 dB

Main Audio Stereo Input

Connector:	Barrier Strip
Input Sensitivity:	350 mV rms for 55 kHz peak deviation (w/ pilot tone)
Frequency Response	(Decoder output Left or Right channel)
L+ R (in-phase inputs):	50 Hz to 10 kHz: 0.50 dB 50 Hz to 12 kHz: 0.75 dB
L - R (out-of-phase inputs):	50 Hz to 10 kHz: 2.50 dB 50 Hz to 12 kHz: 3.50 dB
L or R (one grounded):	50 Hz to 10 kHz: 1.50 dB 50 Hz to 12 kHz: 1.75 dB
Separation:	50 Hz to 10 kHz: 20 dB
Harmonic Distortion @ 1 kHz	(Decoder output Left or Right channel)
L+ R (in-phase inputs):	Less than 1%
L - R (out-of-phase inputs):	Less than 1%
L or R (one grounded):	Less than 1%

SAP Audio Input

Connector:	RCA
Input Level:	0.5 to 5.0 volt peak-to-peak
Frequency Range:	50 Hz to 10 kHz
Frequency Response:	±2 dB
Total Harmonic Distortion:	1%
Signal-to-Noise Ratio:	80 dB
Over Modulation Threshold:	10 kHz, ±1 kHz peak deviation
Input Impedance:	Greater than 10 kΩ, unbalanced

General

Dimensions (WxDxH):	19.0 x 14.25 x 1.75 in. (483 x 362 x 44 mm)
Power:	117 VAC ±10%; 60 Hz (Fuse: 0.40 Amp)
Power Dissipation:	28 W (max)
Weight:	7 lbs (3.18 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensation
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensation

RF Output

Connector:	"F" Female
Frequency Range:	54 to 860 MHz
NTSC Channel Modes:	UHF, VHF, CATV (Standard, HRC, & IRC)
Signal Level:	+60 dBmV
Signal Level Display Range:	+48 to +62 dBmV (in 0.2 dB increments)
Broadband Noise:	-77 dBc (@ +60 dBmV output level, 4 MHz bandwidth)
Spurious Outputs:	-63 dBc
Impedance:	75 Ω
Return Loss:	12 dB
Aural/Visual Carrier Ratio:	-15 dB ±5 dB
4.5 MHz Aural Inter-carrier Freq. Tolerance:	±150 Hz; 32 to 122 °F (0 to 50 °C)
Channel Selectivity	
Adjacent Aural & Below:	-40 dB
Adjacent Picture & Above:	-40 dB ±5 dB
Visual Carrier Freq. Tolerance	
Standard Channels:	±20 kHz; 32 to 122 °F (0 to 50 °C)
FCC Aeronautical Channels:	±5 kHz; 32 to 122 °F (0 to 50 °C)

IF (Intermediate Frequency)

Input/Output Connector:	"F" Female / "F" Female
Aural Frequency:	41.25 MHz
Visual Frequency:	45.75 MHz
Composite IF Output	
Aural Carrier Level:	+20 dBmV
Visual Carrier Level:	+35 dBmV
Input/Output Impedance:	75/75 Ω
Input/Output Return Loss:	16/15 dB
EAS/Alternative IF	
Connector:	"F" Female
Input Level:	+38 dBmV @ 45.75 MHz
Switch Isolation:	Greater than 60 dB

Monitoring/Indicators

Channel / Mode / RF Output:	Front-panel; 3-Digit LED Display
Video Overmodulation:	Front-panel; Red LED
Audio Overmodulation:	Front-panel; Red LED
SAP Audio Overmodulation:	Front-panel; Red LED
EAS/Alternative IF:	Front-panel; Red LED
Stereo:	Front-panel; Green LED

Controls

Channel / Mode / RF Output:	Front-panel; Key-pad
Video Level:	Front-panel; Potentiometer
Audio Level:	Front-panel; Potentiometer
Aural Carrier Level:	Front-panel; Potentiometer
SAP Audio Level:	Front-panel; Potentiometer