

Equipment Description

SPECIFICATIONS

GENERAL

Frequency Bands(Part 94)	21.8 to 22.0 GHz and 23.0 to 23.2 GHz
Channeling Plan	
50 MHz Channels at:	21.825 21.875 21.925 21.975 23.025 23.075 23.125 23.175 GHz
Radio Capacity	525/625 line video plus two subcarrier program channels
Modulation	FM
Deviation	± 4 MHz
Antenna	
Gain	33 dBi typical
Beamwidth (3 dB)	3.5°
Video Signal-to-Noise Ratio (with -35 dBm RCL)	55 dB minimum
Subcarrier Bandwidth	15 kHz

PRIMARY POWER

Source	120 Vac (50 to 60 Hz) 230 Vac optional
Power Consumption	
Transmitter	50W
Receiver	50W
RF Units powered via interconnection cable by Control/Interface Units	

ENVIRONMENTAL

RF Unit	
Ambient Temperature	
Operational	-30 to +50°C (-22 to +122°F)
Storage	-40 to +60°C (-40 to +140°F)
Relative Humidity	up to 100%
Wind Load	40 psf maximum
Control Unit	
Ambient Temperature	
Operational	+10 to +40°C (+50 to +104°F)
Storage	-30 to +50°C (-22 to +122°F)
Relative Humidity	up to 95%

TRANSMITTER

Power Output	100 mW (+20 dBm) maximum, 50 mW (+17 dBm) minimum, 66 mW (+18 dBm) typical
Long Term Frequency Stability	±0.03%
Spurious Response	per FCC Part 94
Video Input	
Level	1V P-P
Impedance	75 ohms
Return Loss	20 dB minimum
Audio Input	
Level	0 dBm
Impedance	600 ohms, balanced
Subcarrier Frequencies	6.8 MHz standard (other frequencies available)

RECEIVER

Type	dual conversion, superheterodyne
Noise Figure	12 dB nominal
Local Oscillator	solid-state, Gunn oscillator
IF Bandwidth	40 MHz
Video Output	
Level	1V P-P
Impedance	75 ohms
Audio Output	
Level	+9 dBm
Impedance	600 ohms, balanced
Receiver Threshold (33 dB weighted S/N)	-72 dBm

PHYSICAL

Size (Transmitter or Receiver)	
RF Unit (including antenna)	16" dia. x 10.75" (d) (40.6 x 27.5 cm)
Control/Interface Unit	3" (h) x 10.5" (w) x 8.25" (d) (7.6 x 26.7 x 21.0 cm)
Weight	
RF Unit	9 lbs. (4.1 kg)
Control/Interface Unit	4.5 lbs. (2.1 kg)

All specifications are subject to change without notice.