Video Test Set

Wide frequency range selection **L**, **S** and **C** bands

Internal camera with selectable external video input

Data Subcarrier or VGA computer input option

The video receiver test set is a low-power video transmitter. It can operate over the L, S and C bands; and it is also offered as an L and S band and optional C band transmitter. The unit has an internal high-resolution (540 lines) color "bullet" camera for the video source. A switch can select other external video sources. It has an output power of up to 250 mW. A micro-controller interfaces to a set of rotary switches to set the frequency. A subcarrier with user selectable frequency is available as an option. A VGA input is available as an alternate option; this allows the user to transmit computer video output. The unit comes with an AC Wall transformer and an antenna. All components are packaged in a plastic carrying case.

Model Bands Option

Example 1423-LSC-SUB

Model

1423 250 mW

Bands

LS 1700 - 1800 / 2200- 2500 MHz

C 4400 - 5000 / 5250 - 5858 MHz

Options

SUB data sub-carrier
VGA computer input

Application

line of sight, no obstructions

High Power Distance ~ 3/4 mile

L-band video transmission

Receiver with -85 dBm sensitivity

Accessories

- multi-band antenna
- +12V DC wall adapter
- carrying case

Specifications

RF

Frequency Range Selection:	1700 to 1850 MHz, 2200 to 2500 MHz, 4400 to 5000 MHz, 5250 to 5858 MHz
Frequency Resolution:	10 MHz
Frequency Selection:	rotary switch
Band Select:	automatic
Power Output:	250 mW
Output Impedance:	50Ω
2nd Harmonic:	-50 dBc
Frequency Control:	Phase-locked to TCXO
Frequency Stability:	0.0001% (1 ppm)
Type of Modulation:	FM
Transmit Bandwidth:	18 MHz

Video

Input Level:	1 Vp-p (NTSC)
Input Impedance:	75 Ω
Bandwidth:	6 MHz
Channel Capacity:	1
Internal Camera:	Sony HAD

Subcarrier (optional)

Frequency:	programmable
Type:	data
Modulation:	FSK, no tone
Deviation:	+/- 75 kHz
Input:	RS-232

VGA Input (optional)

Standard VGA Input 15-pin DB connector

Power Requirements

DC Voltage:	12V DC (100 - 240 V AC adapter included)
Transmit Current:	400 mA nominal
Duty Cycle:	Continuous
Reverse Polarity Protection:	Yes

Mechanical

Connectors

RF Output:	TNC female
External Video Input:	75 Ω BNC female
Data:	DB-9
Size:	5” x 3.1” x 1.7” nominal
Weight:	11 oz.

Environmental

Operating Temperature:	-30 to +60 degrees C

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