

VTM-100

Television Signal Monitor

Harris' Videotek® VTM-100 Television Signal Monitor displays waveform, vector and audio information for analog composite, Y/C (requires optional YC-1 adapter), and component video signals plus analog audio on a composite video monitor. The VTM-100's three passive looping inputs auto-detect the incoming video format for NTSC or PAL and changes the graticule and output format accordingly.



The VTM-100 provides a waveform and/or vector display of the input video. The waveform and vector can be displayed independently or as a combination of both. All waveform/vector displays can be keyed or mixed with the picture on screen.

Other features include line select, waveform filters, V Gain, and H Mag. The input format and SC/H measurement are displayed on screen with alarms for SC/H, Burst and Sync level, for easy reference and user convenience.

The VTM-100 provides convenient operation and control from the front panel through a dropdown menu or remotely via a mouse or any PC.

With features usually found only in more expensive test instruments such as waveform parade and overlay, vertical and horizontal sweep rates and magnifications, flat/low pass and chroma filters or full field line select the VTM-100 is the complete test instrument for any analog video testing application in a cost effective package.

FEATURES

- Waveform, Vector, and stereo audio displays in multiple combinations
- Selectable formats, composite, Y/C, or component
- Three composite or one component passive looping inputs
- Composite waveforms include parade or overlay of up to three inputs with filters
- Sync, burst, and SC/H phase numeric readout and alarms
- SC/H phase, sync and burst amplitude alarm limits are user selectable
- Alarm indication of text message and display color change
- Menus and displays controlled via front panel, mouse, or PC
- Component waveforms include parade, overlay, and bowtie
- Picture mixed or keyed
- Bright, full field line select
- Time base modes: 1H/2H/3H/ and 1V/2V/3V
- Magnifications: x1, x5, x10, and x20

- Flat/low pass/chroma filter selection
- NTSC and PAL standards

SPECIFICATIONS Specifications and designs are subject to change without notice

GENERAL

Standards	NTSC/PAL (Auto Detect)
Formats	Composite/Component
Display Waveform Accuracy	±1% @ 1V
Video Response	25 kHz - 6 MHz ±1% of 100 kHz
Chroma Filter Response	Within 3% of flat @ 3.58 MHz and 4.43 MHz
Transient Response	Preshoot and/or overshoot ≤1%
Time Base Modes	Line Rate 1H, 2H, 3H Field Rate 1V, 2V, 3V Sweep Mags x1, x5, x10, x20 relative to 1H or 1V
Input Gain Range	Fully adjustable from 50% to 500% Y/C (through YC-1 OPT.), RGB,
Component Formats	BETA, M-II®, SMPTE, EBU, 75% and 100%
Composite Vector Accuracy	±1°
Composite Vector Phase Control	>360°, continuously variable
SC/H Phase Measurement Accuracy	±5°
Memory	5 user-defined setups, with total instrument settings
Display	Input displays, graticule and background colors are user-selectable

INPUTS

Video	Three BNC loop thru NTSC/PAL composite or one component video input into 75 ohms load, sync negative
Level	1V p-p ±6 dB
Return Loss	≤ 50 dB, DC to 5 MHz
External Reference	BNC loop thru, 286 mV NTSC, 300 mV PAL ±6 dB
Audio	Two balanced stereo pairs with push-on two-piece connector
Level	0, +4, +8, +12 dBm

OUTPUTS

Video	Two 75 ohms BNC Composite Video Outputs. In component mode, output is "Y" or green channel with selected displays
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POWER REQUIREMENTS

Power Input	90-260 VAC, 50/60 Hz
Power Consumption	85 VA

ENVIRONMENTAL

Operating	0°C TO 50°C
Storage	-40°C to 65°C
Humidity	0 - 90% (non-condensing)
Altitude	Operating to 10,000 ft. (3,050m) Non-operating to 50,000 ft. (15,240m)

MECHANICAL

Dimensions	Height 1.75" (4.5 cm) Width 19" (48.3 cm) Depth 16" (40.6 cm)
Weight	15.0 lb (6.8 kg)

OTHER

Remote Control	RS-232 or mouse supports Microsoft® or Logitech®
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STANDARD ACCESSORIES

Operator's Handbook
Rackmount Kit
Power Cord

OPTIONS

Service Manual

YC-1

Adapter for Y/C input -(YC-1 OPT)

EPC

EPC European Power Cord

EPC-UK

United Kingdom Power Cord

EPC-AA

Australia Power Cord