

# TVM-4DG

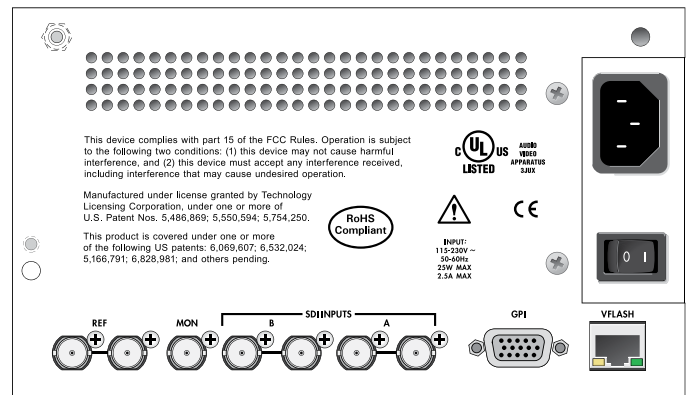
## MULTIFORMAT HD/ SD-SDI WAVEFORM MONITOR/ VECTORSCOPE



The TVM-4DG multiformat waveform monitor/vectorscope is an easy-to-operate tool for monitoring HD-SDI (1080 and 720) and SD-SDI (525 and 625) signals — is housed in a convenient half-rack scope package. The display can show any one of the following: waveform, vector, gamut, picture or Videotek® patented timing display.

### FEATURES

- Two passive looping HD/SD-SDI inputs with auto-detection of input format
- External reference input accepts blackburst or tri-level sync
- Simple operation
- On-screen display of picture, waveform, vector, gamut or timing
- GPI control of input and function selection
- Standards supported: SMPTE 292M, SMPTE 259M-C



## Specifications

Specifications are subject to change without notice.

### Video

Inputs A and B (Digital)	1080i/60, 1080i/59.94, 1080i/50, 1080p/30, 1080p/29.97, 1080p/25, 1080p/24, 1080p/23.98, 1080p/30sF, 1080p/29.97sF, 1080p/25sF, 1080p/24sF, 1080p/23.98sF, 720p/60, 720p/59.94, 720p/50, 720p/30, 720p/29.97, 720p/24, 720p/23.98, 525/59.94 or 625/50 auto-detect
Data Rate	1.485 Gb/s, 270 Mb/s auto-detect
Level	800 mV, nominal
Return Loss	≤-15 dB, 5 MHz to 1.485 GHz
Connectors	4 BNC, Hi-Z looping

### Reference

Input	NTSC/PAL blackburst or composite video, tri-level sync auto-detect (per SMPTE 274M)
Signal Level	NTSC: blackburst 286 mV pk-pk ± 6 dB PAL: sync and burst 300 mV pk-pk ± 6 dB Tri-level: 600 mV pk-pk ± 3 dB
Connectors	2 BNC, Hi-Z looping
Return Loss	≤-40 dB, 100 kHz to 5 MHz

### Control

GPI	Input selection, function selection, momentary closure
Input Impedance	10 k ohms returned to + 5 V
Connector	15-pin D-sub female
VFLASH	Ethernet port for firmware updates

### Display

General	Picture, waveform, vector, gamut or timing
Waveform	YCbCr, RGB, YRGB, digital as composite
Sweep Time Base	1 H, 2 H or 3 H with x1, x5, x10 magnification 1 V, 2 V or 3 V with x1, x5, x10, x25 magnification
Waveform Accuracy	± 1%
Vector	Cr vs. Cb
Vector Accuracy	± 1°

### Power Requirements

Power Input	90 to 260 V AC, 50/60 Hz, nominal
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### Mechanical

Dimensions H x W x D	5.25 x 8.25 x 16.63 in. (13.34 x 21.6 x 42.24 cm)
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### Environmental

Operating Temperature	0° to 50° C
Storage Temperature	-40° to 65° C
Humidity	90% maximum (non-condensing)
Operating Altitude	To 10,000 ft (3,050 m) above sea level

### Standard Accessories

Operators manual
GPI breakout
North American power cord

### OPTIONS

PTC-2	Portable case with folding stand
DRC-2A	Double rackmount case
BLK-1	Blank panel for DRC-2A
EPC	European power cord
EPC-UK	United Kingdom power cord
EPC-AA	Australian power cord