

# VIDEOTEK® TVM

## MULTI-FORMAT SIGNAL ANALYZERS WITH INTEGRAL LCD



Harris' Videotek® TVM multi-function video and audio signal analyzers are the most advanced, versatile, modular and intuitive test instruments available in a half-rack scope package. With a range of models covering a wide variety of input configurations and a host of available options, there's a "TVM" for virtually any monitoring need.

Depending on which of the six models you choose — TVM-950, 950-E, 900, 850, 850-E or 840 — different input options are available for HD/SD-SDI, SD-SDI and analog composite video. Users can alternatively create a custom configuration by adding optional input modules. An appropriately equipped TVM-950 or TVM-850 can display and evaluate up to four input sources simultaneously.

In all TVM models, 100% digital signal processing enables a precision presentation of Waveform, Vector, Gamut, Audio,

Picture, Timing, and Data Analyzer screens, each of which can be viewed in any quadrant or in full screen mode.

The TVM has impressive features to enhance the user's experience: illuminated controls; modular platform for easy upgrade; HD/SD-SDI auto-detect; passive looping inputs which accept 1080i, 1080p, 720p formats at popular frame rates including SD-525/625; YCbCr dual link; real-time alarms (with time stamp, adjustable limits and peak value report); frame capture/transfer; EIA 608 & 708 closed caption; Teletext, XDS, Alarm Status, and Metadata displays.

The TVM is also quickly and easily configured, with direct access to display functions, 16 front-panel preset selections, context-sensitive pop-up menus and the industry's most intuitive navigation system.

Adding a whole new level of versatility, TVM instruments are Q-SEE™ enabled, featuring the patented Videotek technology that enables customized quality control through technical signal evaluation. In TVM instruments, users can configure the display or multitude of ways for any specific need — utilizing user-defined preferences to display information about any available signal in any location on the screen.

The optional Multiple Image Thumbnails feature enables the placement of a reference thumbnail adjacent to any monitoring function, for any installed inputs. Other options include Advanced Audio Analysis with CineSound® Surround display and comprehensive Dolby® decoding, MPEG-2 Data Analysis, Teletext and more.

The TVM integrates seamlessly into any broadcast, post-production, telecine, satellite, or cable facility. It's the ultimate choice for quality control, troubleshooting, and compliance check applications.

	Standard HD/SD-SDI Inputs	Standard SD-SDI Inputs	Optional Inputs	Looping Inputs	WFM	Line Select	Vector	Eye Pattern	Alarms	Audio	Remote Control	Video Monitor Output	Size
TVM-950	2	0	2	Yes, passive	YES	YES (4)	YES	Option	YES	Advanced Analysis Options	YES	YES	3RU 1/2 Rack
TVM-950-E	2 w/Eye	0	2	Yes, active	YES	YES (4)	YES	YES	YES	Advanced Analysis Options	YES	YES	3RU 1/2 Rack
TVM-900	2	0	2	Yes, passive	YES	YES (1)	YES	NO	YES	Advanced Analysis Options	YES	YES	3RU 1/2 Rack
TVM-850	0	2	2	Yes, passive	YES	YES (4)	YES	Option	YES	Advanced Analysis Options	YES	YES	3RU 1/2 Rack
TVM-850-E	0	2 w/Eye	2	Yes, active	YES	YES (4)	YES	YES	YES	Advanced Analysis Options	YES	YES	3RU 1/2 Rack
TVM-840	0	2	2	Yes, passive	YES	YES (1)	YES	NO	YES	Advanced Analysis Options	YES	YES	3RU 1/2 Rack

### Video Options

**TVM-OPT EYE-2:** Two (2) active looping SMPTE 292M (HD-SDI) and SMPTE 259M-C (SD-SDI) inputs, auto detect with EYE pattern and monitor output. For TVM-950.

**TVM-OPT EYE-1:** Two (2) active looping SMPTE 259M-C (SD-SDI) inputs, auto detect with EYE pattern and monitor output. For TVM-850.

**TVM-OPT HD/SD:** Two (2) looping SMPTE 292M (HD-SDI) and SMPTE 259M-C (SDSDI) inputs, auto detect and monitor output. For TVM-950 and TVM-900.

**TVM-OPT SD:** Two (2) looping SMPTE 259M-C (SD-SDI) inputs, auto detect. For TVM-950, TVM-900, TVM-850 and TVM-840.

**TVM-OPT ACV-2:** Two (2) looping analog composite video inputs for NTSC or PAL format, auto detect. For TVM-950, TVM-900, TVM-850 and TVM-840.

**TVM-OPT DEC-1:** Dual DVB-ASI/SMPTE 310 Input Module with MPEG Data Analysis and Decoder. Provides transport stream program information and bandwidth measurements. Monitors MPEG and ATSC tables for errors and repetition rates. Alarms for ETSI TR-101-290 first, second and third priority errors. Decodes audio and video for confirmation of content. *Available Summer 2006.*

**TVM-OPT AAP:** Advanced Analysis Package. Adds Data Analyzer function to TVM-900 and TVM-840.

### Audio Options

**TVM-A<sup>3</sup>-OPT 2:** Advanced Audio Analysis Option. Bargraphs and CineSound<sup>®</sup>. View up to 8 audio channels. Includes 4 analog stereo inputs, 4 AES/EBU shared input/output pairs and 16 channels of embedded audio. Analog monitoring outputs of up to 8 channels simultaneously.

**TVM-A<sup>3</sup>-OPT 3:** Advanced Audio Analysis Option. Bargraphs and CineSound. View up to 8 audio channels. Includes 4 analog stereo inputs, 8 AES/EBU inputs with 4 shared output and 16 channels of embedded audio. Analog monitoring outputs of up to 8 channels simultaneously. Includes channel mapping, loudness metering, customizable meter scales and peak level reporting.

**TVM-A<sup>3</sup>-OPT 4:** All the features of TVM-A<sup>3</sup>-OPT 3 plus adds Dolby decoding to 2 channel mix down analog output.

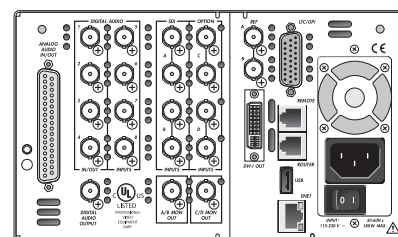
**TVM-A<sup>3</sup>-OPT 5:** All the features of TVM-A<sup>3</sup>-OPT 3 plus adds full Dolby decoding with up to 8 analog outputs.

**TVM-A<sup>3</sup>-4004:** Audio Expansion module. Adds 4 AES/EBU input pairs to TVM-A<sup>3</sup>-OPT 2.

Audio Option	Loudness Monitoring	Analog Output SNR	Chan. Disp.	Emb. Aud.	Analog Inputs	Analog Outputs	AES Inputs	AES Input Expansion	AES Outputs	Ch. Map	Dolby Digital Output	Dolby 2 Ch. Decode	Dolby 8 Ch. Decode	Dolby Meta-data	Alarms
<b>TVM-A<sup>3</sup>-OPT 2</b>	No	100dB	8	Yes	8	8	4	4	4	NO	NO	NO	NO	NO	YES
<b>OPT 3</b>	Yes	100dB	8	Yes	8	8	8	Included	4	YES	NO	NO	NO	NO	YES
<b>OPT 4</b>	Yes	100dB	8	Yes	8	8	8	Included	4	YES	YES	YES	NO	NO	YES
<b>OPT 5</b>	Yes	100dB	8	Yes	8	8	8	Included	4	YES	YES	YES	YES	YES	YES

A<sup>3</sup> - Advanced Audio Analysis Options

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TVM Back Panel

For more information please visit [www.broadcast.harris.com/videotek](http://www.broadcast.harris.com/videotek)

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