

AVM-717

TEST & MEASUREMENT VIDEO AND AUDIO MULTIFORMAT MONITORING SYSTEM



Harris Corporation's Videotek® AVM-717, AVM-717-E, AVM-717-EJ and AVM-717-3GB systems are the most advanced, versatile and intuitive HD/SD-SDI monitoring instruments available today. Each 7RU multiformat system features an integral 17-inch widescreen color LCD display, as well as stereo speakers and a headphone jack for audio monitoring.

With 100 percent digital signal processing technology, the AVM-717 provides an accurate, stable, user-customizable display of multiple waveform, vector, gamut, audio, picture, relative timing, alarm status and data analyzer functions. Displays can be quadrant or full-screen views. The AVM-717 has environmentally friendly, illuminated front-panel controls and an ultra-quiet cooling system. Quick setup and parameter adjustments can be made via direct user access to display functions and screen location, 16 presets, context-sensitive pop-up menus and an intuitive navigation system.

The AVM-717 provides two HD/SD-SDI passive looping inputs with auto detection of input formats (1080i, 1080p, and 720p at all popular frame rates and 525/625). When fitted with an optional second input module, the AVM-717 can display up to four input sources simultaneously. Line select, internal/external references and various input/function combinations can be presented in any quadrant, or as a full screen. Multi-mode (MLT) capability is available for special custom displays.

The AVM-717 features extensive audio and video alarm capabilities, including peak level reporting, video and Dolby® metadata, EIA-608 and 708 closed-caption detection/alarm display, and teletext and XDS processing. All real-time signal alarms have user-adjustable limits and time stamps from LTC, (D)VITC and an internal clock. Remote interfaces include 10/100BaseT Ethernet and plug-and-play USB port (supporting storage and recall of presets, frame-capture transfer and keyboard integration). The AVM-717 series video and audio test instruments feature an all-digital architecture; therefore, no periodic calibration is required. The AVM-717 seamlessly integrates into any broadcast, post production, satellite or cable facility and is the ultimate choice for quality control or compliance-checking applications.

The AVM-717 also accepts up to eight AES/EBU stereo pairs, eight mono or four stereo analog inputs and embedded audio from the SDI inputs. The audio can be displayed as two-, four-, six- or eight-channel bar graph meters with a phase bar readout for each meter pair, or as CineSound™ displays for 5.1, 6.1 and 7.1 channels. Audio metering includes Type I, Type IIa, Type IIb, Type I + 8, Nordic, DIN 45406, dBFS, Zero ref dBFS and custom scales. Metering also includes VU, peak, true peak, VU + peak, VU + true peak, loudness, and a custom display with adjustable attack and decay selections. Loudness and true peak measurements are performed according to the ITU-R BS.1770 standard.

FEATURES

- Integrated 17-inch widescreen LCD monitor for the on-screen display of video picture, waveform, vector, audio, data and alarms
- External monitor inputs include DVI, analog composite, S-Video and VGA
- Integrated stereo speakers and a headphone jack for audio monitoring
- Two looping HD-SDI inputs with auto-detection of input format
- Standards supported: SMPTE 292M and SMPTE 259M-C
- Analog, AES and embedded audio inputs and monitoring

*US Patents 6,069,607, 6,532,024, and 6,828,981. UK Patent 2,330,475. Other US and foreign patents pending.

ORDERING OPTIONS

AVM-717: Two looping HD/SD-SDI inputs with embedded audio and eight AES inputs with four shared as outputs, eight analog audio inputs and outputs, integrated 17-inch monitor and stereo speakers.

AVM-717-GB: Replaces the HD/SD-SDI input module with the 3 Gb/s module (TVM-OPT 3GB).

AVM-717-EJ: Replaces the HD/SD-SDI input module with the jitter evaluation module (TVM-OPT JEM).

AVM-717-E: Replaces the HD/SD-SDI input module with the HD/SD-SDI eye pattern module (TVM-OPT EYE-2).

VIDEO OPTIONS

TVM-OPT 3GB: Two active looping, SMPTE 424M (3 Gb/s), SMPTE 292M (HD-SDI) and SMPTE 259M-C (SD-SDI) inputs, auto detect and monitor output.

TVM-OPT JEM: Two active looping, SMPTE 292M (HD-SDI) and SMPTE 259M-C (SD-SDI) inputs, auto detect and monitor output. Eye pattern display and jitter waveform or spectrum can be viewed individually or together on the AVM-717 as part of a quad display. HD/SD-SDI multiformat, on-screen monitor with jitter readout, jitter waveform, jitter spectrum and eye pattern display. Order AVM-717EJ to replace the standard TVM-OPT HD/SD module with the TVM-OPT JEM. Includes factory installation.

TVM-OPT EYE-2: Two active looping SMPTE 292M (HD-SDI) and SMPTE 259M-C (SD-SDI) inputs, auto detect with eye pattern and monitor output. Order AVM-717E to replace the standard TVM-OPT HD/SD module with the TVM-OPT EYE-2. Includes factory installation.

TVM-OPT HD/SD: Two looping SMPTE 292M (HD-SDI) and SMPTE 259M-C (SDSDI) inputs, auto detect and monitor output. Adds two inputs for a total of four inputs.

TVM-OPT SD: Two looping SMPTE 259M-C (SD-SDI) inputs, auto detect. Adds two inputs for a total of four inputs.

TVM-OPT ACV-2: Two looping analog composite video inputs for NTSC or PAL format, auto detect. Adds two inputs for a total of four inputs.

TVM-OPT ASI: Dual DVB-ASI/SMPTE 310 input module with MPEG data analysis. 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. Adds two inputs for a total of four inputs.

TVM-OPT DLK: Expands the dual link capability of HD/SD-SDI, JEM and EYE-2 input modules to include 10-bit RGB (4:4:4) and RGB+A (4:4:4:4) formats.

AUDIO OPTIONS

TVM-A3-OPT3TO5: Upgrades the AVM-717 to add full Dolby® decoding for meter display, with up to eight analog outputs plus metadata display. Factory installed.

TVM-A3-OPT3TO5F: Upgrades the AVM-717 to add full Dolby® decoding for meter display, with up to eight analog outputs plus metadata display. Field upgrade.

TVM-A3-OPT V2A: Upgrades the AVM-717 to add lip sync timing measurement. Factory installed.

TVM-A3-OPT V2AF: Upgrades the AVM-717 to add lip sync timing measurement. Field upgrade.

POWER CORD OPTIONS

Note: A North American power cord is supplied unless one of the following options is specified at the time of order:
 EPC European Power Cord
 EPC-UK United Kingdom Power Cord
 EPC-AA Australian Power Cord

STANDARD ACCESSORIES

Operator's manual
 GPI/GPO breakout
 Analog audio breakout
 North American power cord

AVM-717 back panel with optional video input module

