

HD-STAR®

Handheld HD-SDI and SD-SDI Generator and Monitor



The Videotek® HD-STAR® is a portable, battery-powered HD-SDI and SD-SDI video generator and monitor. Also possessing embedded audio generator and monitor capabilities, the HD-STAR provides a level of multiformat functionality and versatility that sets it apart from other handheld test and measurement products on the market.

FEATURES

- Multiple functionality
 - Color monitor
 - Vectorscope
 - Waveform monitor
 - Test signal generator
 - Embedded audio monitor
 - Serial data analyzer
- Multi-formats
 - HD-SDI
 - SD-SDI
- Portable, handheld
 - PDA-sized
 - Weighs under one pound with battery
- Integrated 320x240 color LCD Display
- Touch screen operation

PRODUCT DETAILS

With a powerful array of features and functions that include a video test signal generator, color monitor, waveform monitor, vectorscope, serial data analyzer and an audio analyzer/monitor, the lightweight HD-STAR is ideal for monitoring field production camera setup, equipment installation, or troubleshooting signal path issues related to high-definition and standard-definition digital formats.

This PDA-sized test monitor was designed to offer the convenience of portability without sacrificing function and performance. To enhance the user's experience, the HD-STAR features an integrated 320x240 color LCD display, utilizing touchscreen technology and the provided stylus to control and

configure each operation. Maintaining power in the field won't be a problem — the HD-STAR runs on a Li-Ion battery pack.

The HD-STAR includes one looping video input for monitoring HD-SDI and SD-SDI signals formatted in SMPTE 292 M or SMPTE 259 M-C with embedded audio. The test signal generator has two outputs selectable as HD-SDI or SD-SDI. The stereo headphone output may be used to monitor embedded audio from the SDI source.

Standard accessories include a sunshield, stylus, rechargeable Li-Ion battery pack, AC power adapter, serial communications cable, and a belt-style pouch.

SPECIFICATIONS

Specifications and designs are subject to change without notice.

Color Picture Monitor

Color TFT touch screen LCD
 320x240 pixels
 2.1 x 2.8 in. (54 x 72 mm) display
 Zoom and pulse cross mode
 Horizontal and vertical offset

Test Signal Generator

Test signals
 Split bars 75% and 100%
 Full bars 75% and 100%
 Ramp
 Checkfield
 10 Step
 50% Grey
 Window test signal
 Frequency stability 50 ppm
 EDH or CRC insertion
 Embedded tone in one AES group
 Audio frequency and amplitude adjustable
 Serial digital video output*
 1080i/50/59.94/60 Hz
 1080p/23.98/24/25/29.97/30 Hz
 720p/23.98/24/29.97/30/50/59.94 Hz
 525/59.94, 625/50
 Output jitter per SMPTE 292M and SMPTE 259M-C

Embedded Audio Tone Generator

Audio frequency fixed selections	-400 Hz, 1 kHz, 10 kHz
Audio frequency variable selections	10 Hz to 20 kHz in 10 Hz steps
Audio amplitude fixed selections	-0, -12, -18, -20 dBFS
Audio amplitude variable selections	-0 to -60 dBFS in 1 dB steps

Waveform Monitor

SD serial digital video input*

SMPTE 292M

1080i/50/59.94/60 Hz
 1080p/23.98/24/25/29.97/30 Hz
 720p/23.98/24/29.97/30/50/59.94 Hz

SMPTE 259M-C

525/59.94, 625/50
 RGB or Y, PB, PR levels
 Color display
 Digital line select
 Persistence adjustable
 Zoom and pan mode

*Note: The video input and video generator outputs will be the same selected format.

Vectorscope

75% and 100% display mode
 Digital line-select
 Persistence adjustable

SD Serial Digital Data Analyzer

SAV position
 SAV XYZ word
 EAV position
 EAV XYZ word
 ANC check sum
 Active field CRC
 Full field CRC
 EDH flags
 Active picture EDH
 Full field EDH

HD Serial Digital Data Analyzer

Luma and chroma CRC
 Embedded audio presence
 Chroma ancillary data presence

Embedded Serial Audio Monitor

AES/EBU 48 kHz audio data supported
 Monitor and display any 1 pair from 4 groups
 Stereo bar graph peak hold audio meters
 Stereo bar graph average audio meters
 16-bit DAC
 Variable stereo headphone output
 (from embedded audio sources)

Communications

RS-232 serial communications for firmware upgrade

Power

Li-Ion rechargeable battery pack and AC power adapter/charger with North American power cord included,

optional power cords available
Auto shutdown of unused functions

Environmental

Operating Temperature 32° to 104° F (0° to 40° C)
Storage Temperature -22° to 185° F (-30° to 85° C)

Mechanical

Dimensions (H x W x D) 5.9 x 3.6 x 1.9 in. (150 x 92 x 47 mm)
Weight 386 g (13.6 oz) (with Li-Ion battery pack)

ORDERING INFORMATION

HD-STAR Handheld HD-SDI and SD-SDI generator and monitor — portable, battery powered, handheld HD-SDI and SD-SDI video and embedded audio generator and video and audio monitor

OPTIONS

EPC European power cord for AC adapter
EPC-UK United Kingdom power cord for AC adapter
EPC-AA Australia power cord for AC adapter

CONTACTS

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