

TEST & MEASUREMENT

HD-STAR™

Handheld HD-SDI, SD-SDI Generator and Monitor

The Harris® Videotek® HD-Star™ portable, battery powered, handheld HD-SDI and SD-SDI video and embedded audio generator and video and audio monitor provides multifunctionality and versatility that set it apart from other handheld test and measurement products on the market.

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 320 x 240 color LCD display, utilizing touch-screen 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 active 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.

FEATURES

Multiple Functionality

- Color Monitor
- Vectorscope
- Waveform Monitor
- Test Signal Generator
- Embedded Audio Monitor
- Serial Data Analyzer

Multiformats

- HD-SDI
- SD-SDI
- Portable, handheld — PDA-sized
- Weighs under one pound with battery
- Integrated 320 x 240 color LCD display
- Touch screen operation



HD-STAR Specifications

Specifications and designs are subject to change without notice.

COLOR PICTURE MONITOR

Color TFT Touch Screen LCD
320 x 240 Pixels
54 x 72 mm Display
Zoom and Pulse Cross Mode
Horizontal and Vertical Offset

TEST SIGNAL GENERATOR

Test Signals
Split Bars 75% & 100%
Full Bars 75% & 100%
Ramp
Checkfield
10 Step
50% Grey
Window test signal
Frequency Stability 50ppm
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

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 one 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	0 to 40° C
Storage	-30 to +85° C

MECHANICAL

Height	5.9" (150 mm)
Width	3.6" (92 mm)
Depth	1.9" (47 mm)
Weight	13.6 oz 386 grams (with Li-ion battery pack)

OPTIONS

European power cord for AC adapter
Kingdom power cord for AC adapter
Australia power cord for AC adapter

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

For more information please visit www.broadcast.harris.com/videtok.

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