

SD-STARTM

HANDHELD SD-SDI AND ANALOG COMPOSITE GENERATOR AND MONITOR



- Multiple functionality
 - Video test signal generator
 - Color monitor
 - Waveform monitor
 - Vectorscope
 - Oscilloscope
 - Audio analyzer/monitor
 - Serial data analyzer
- Multiple formats
 - SD-SDI
 - Composite analog
 - Analog
- · Portable, handheld
 - PDA-sized
 - Weighs under one pound
- Integrated 320x240 color LCD display
- Touchscreen operation





The new Videotek® SD-STAR™ is a handheld, battery-powered monitor and test generator for SD-SDI and analog composite video signals. The unit provides multiformat functionality and versatility, setting it apart from other handheld test products on the market.

With a powerful array of features and functions, including a video test signal generator, color monitor, waveform monitor, vectorscope, oscilloscope and audio analyzer/monitor, the lightweight SD-STAR is ideal for monitoring field production camera setup, equipment installations or troubleshooting signal path issues related to analog and standard-definition digital formats.

PRODUCT DETAILS

This PDA-sized test monitor offers the convenience of portability without sacrificing function and performance. To enhance the user experience, the SD-STAR features an integrated 320x240 color LCD that utilizes touchscreen technology to control and configure each operation. Maintaining power in the field isn't a problem either — the SD-STAR runs on a rechargeable lithium ion battery pack that can deliver more than six hours of continuous operation (subject to functionality selected).

The SD-STAR includes two video inputs — one for monitoring composite analog NTSC and PAL video signals and one for monitoring SD-SDI signals formatted in SMPTE 259M-C with embedded audio. The analog input can be used with the oscilloscope function for a variety of analog signals. The test signal generator has individual outputs of composite analog video and SD-SDI. The stereo headphone output may be configured to monitor embedded audio from the SDI source or double as a monaural analog tone generator output.

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

SPECIFICATIONS

Specifications are subject to change without notice.

Color TFT Touchscreen LCD 320x240 pixels

2.1 x 2.8 in. (54 x 72 mm) display

Test Signal Generator

Test Signals Color Bars. Split bars: 75% and 100% (SMPTE)

Full bars: 75% and 100% Luminance ramp and full ramp

Sweep10-step

Sin X

Window test signal

Check field Multi burst Multi pulse

Full field colors

Serial Digital Video Output 525/59.94, 625/50

EDH insertion

Embed tone in any single audio group

Composite Video Output NTSC or PAL Audio frequency and amplitude adjustable

Color Picture Monitor Pulse cross mode

Horizontal and vertical offset

Waveform Monitor

Composite Video Input Composite NTSC or PAL $\,$

Serial Digital Video Input..... RGB or Y, $C_{_{\rm B}}$, $C_{_{\rm B}}$

Color Display
Digital Line-Select
Persistence Adjustable

Digital line-select
Persistence adjustable

Serial Digital Data Analyzer SAV position

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

Full field EDH



SD-STAR™

Handheld SD-SDI and Analog Composite Generator and Monitor

Oscilloscope

Bandwidth 48 MHz Flatness ±1% to 6 MHz

Scales (Time)..... Sec/div 250 ns, 500 ns, 1 us, 2.5 us, 5 us, 10 us, 25 us, 50 us, 100 us, 250 us, 500 us, 1 ms, 2.5 ms, 5 ms, 10 ms, 25 ms, 50 ms, 100 ms

(accuracy <2% error)

Scales (Amplitude) 10X mode V/div 100 mV, 200 mV, 500 mV,

1 V, 2 V and 5 V (accuracy <2% error) 1X mode V/div 10 mV, 20 mV, 50 mV, 100 mV,

200 and 500 mV (accuracy <2% error)

Maximum Input Level 40 V pk-pk (only in x10 mode)

Input Coupling DC or AC

Input Impedance 75 ohms or 1 M ohms selectable

Vertical and Horizontal Position Controls

Trigger Level and Polarity Controls. . Positive and negative trigger with level control

Persistence

H and V sync trigger mode Tri-level sync trigger mode

Embedded Serial Audio Monitor . .

AES/EBU 48 kHz audio data supported Analyze any one pair from four groups Stereo bar graph peak hold and VU audio meters Variable stereo headphone output (from embedded audio sources) with 16-bit DAC

Audio Tone Generator

THD ≤1% Maximum Level +4 dBu

Connector Miniature TRS headphone jack

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 +4, 0, -4, -8, -18, -20 dB Audio Amplitude Variable Selections . . +4 dB to -59 dB in 1 dB steps

ORDERING INFORMATION

SD-STAR Handheld SD-SDI and analog monitor and

generator — portable, battery-powered, handheld SD-SDI and analog video and audio monitor (picture, waveform and vector), data monitor (EDH SD-SDI only) and video generator with embedded

audio

OPTIONS

EPC. European power cord for AC adapter EPC-AA..... Australia power cord for AC adapter

Power Management Auto shutdown of unused functions Up to 6-hour operation (full battery charge, function dependent)

Serial Digital Output

Output Jitter ≤0.2 UI

Composite Analog Output. 10-bit DAC

Interpolation 8:8:8 S/N ratio (ramp) >60 db rms Serial digital input (SMPTE 259M-C) Composite analog input (NTSC, PAL)

Environmental

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

Mechanical

Dimensions (H x W x D) 5.3 x 3.1 x 1.4 in. (136 x 80 x 35 mm)

Power. Li-lon rechargeable battery pack and AC power

adapter/charger with North American power cord included, optional power cords available