

Harris Corporation's Videotek® GEN-STAR™ is a portable, battery-powered, handheld HD-SDI and SD-SDI video generator with embedded audio, an AES audio output and external reference input. This unit provides multifunctionality and versatility that sets it apart from other handheld test and measurement products on the market.



The powerful array of features in the GEN-STAR™ includes:

- Video test signal generator
- Embedded audio selections of up to 16 channels
- Independent or frequency-locked channel selection (four channels)
- Independent selection of up to four tic marks (four channels)
- External reference input with selectable horizontal and/or vertical delays of the test signal
- Six source ID memories with selectable cycle function

The lightweight GEN-STAR™ is ideal for equipment installation or for troubleshooting signal path issues related to high-definition and standard-definition digital formats. This PDA-sized test generator was designed to offer the convenience of portability without sacrificing function and performance. To enhance the user's experience, the GEN STAR™ features an integrated 320x240 color LCD display, utilizing touch-screen technology and the provided stylus to control and configure each operation. And, maintaining power in the field won't be a problem—the GEN-STAR™ runs on a Lithium-Ion battery pack.

The GEN-STAR™ includes two HD-SDI or SD-SDI signals formatted in SMPTE 292 M or SMPTE 259 M-C with AES audio. The stereo headphone output can be used to monitor with AES audio. Standard accessories include a sunshield stylus, rechargeable Li-Ion battery pack, AC power adapter, serial communications cable and a belt-style pouch.



FEATURES

- Multiple-format functionality (HD-SDI or SD-SDI)
- Video test signal generator
 - More than 20 video test signals
 - Video to audio delay test signal
- Embedded audio generator
 - Four audio channel selections
 - Independent or locked audio frequency selection
 - Independent amplitude selection
 - Tic mark selection
 - Up to four groups
- AES output audio generator
- External reference input
- Portable, handheld — PDA-sized
- Weighs under one pound with battery
- Integrated 320x240 color LCD display
- Touchscreen operation

Specifications

Specifications and designs are subject to change without notice.

COLOR TFT TOUCHSCREEN LCD

320x240 pixels
54x72 mm display

TEST SIGNAL GENERATOR

Test signals
Split bars — 75%, 100% and RP-219
Full bars — 75% and 100%
Multiburst and Y only
Crosshatch
Crosshair
SinX and Y only
Checkfield
Fullfield Red, Blue, Green, White, Black and 75% Grey
Ramp and Y, Cb, Cr, ramp only
Equal ramps
10-step
Sweep and Y only
Window test signal and Y only
V2A (Video-to-audio sync test signal ability)

SERIAL DIGITAL VIDEO OUTPUT

1080i/50/59.94/60 Hz
1080p/23.98/24/25/29.97/30 Hz
720p/23.98/24/29.97/30/50/59.94/60 Hz
525/59.94, 625/50
Output jitter per SMPTE 292M and SMPTE 259M-C
Horizontal and vertical offset from reference
EDH or CRC insertion
Embedded tone up to 16 channels by group
Audio frequency and amplitude adjustable

EMBEDDED AUDIO TONE GENERATOR

Audio frequency fixed selections
400 Hz, 1 kHz, 5 kHz, 10 kHz, sweep
Audio frequency variable selections
20 Hz to 20 kHz in 10 Hz steps
Independent or frequency (phase) matching per channel
Audio amplitude fixed selections:
Silent, 0, -9, -12, -18, -20 dBFs
Audio amplitude variable selections:
0 to -60 dBFs in 1 dB steps
Tic mark selection from 1 to 4 in each Channel

AES OUTPUT

One pair
Follows selected channel settings 1 and 2 or 3 and 4
Variable stereo headphone output of AES tone

EXTERNAL REFERENCE INPUT

Blackburst, tri-level sync, analog video, DARS or AES word clock
Input format auto detect of standard
Blackburst input amplitude
-NTSC: Sync and burst 286 mV, nominal
-PAL: Sync and burst 300 mV, nominal
Tri-level sync: 600 mV, nominal
AES Word clock: 1V nominal
DARS amplitude: 200 mV, nominal
Internal to external timing accuracy: + 100 ns

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 LCD backlight

ENVIRONMENTAL

Operating: 0 to 40° C
Storage: -30 to +85° C

MECHANICAL

Dimensions
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

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