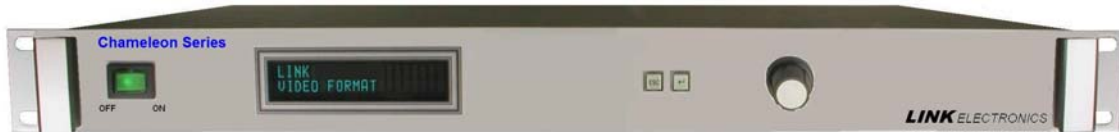




LINK ELECTRONICS, INC.

SPA-435 DigiPhase SDI Phase Analyzer Chameleon Series



FEATURES

- ◆ Tri-level Reference Input or
- ◆ Analog Black Reference Input
- ◆ HD or SD SDI Input
- ◆ Timing Display on Video
- ◆ Timing Display on Front Panel
- ◆ GPI Remote for Video Display
- ◆ Field Upgrade Serial, USB, or Ethernet
- ◆ Optional Dual Power Supply

General Description

The SPA-435 is a device for checking the timing of SDI compared to an analog reference. In today's market it can be difficult to determine the horizontal and vertical timing of SDI streams without expensive test equipment. Timing particularly the vertical phase can cause glitches in the video when switching from one source to another. This device can be used to accurately determine the timing of the HD and SD SDI sources.

The SPA-435 automatically detects the SDI input format and automatically detects the format of the reference input. It compares the input SDI timing to the input reference and displays the timing difference. The timing display for vertical is in lines and the timing display for horizontal is in pixels. The timing display will always be on the front panel and the user can choose via menu option or GPI remote to have the timing overlaid into the SDI output.

The SPA-435's reference format can be NTSC, PAL, 720P, 1080I, and 1080P. The SDI format can be NTSC, PAL, (SMPTE 259 M) 720P, 1080I, and 1080P (SMPTE 292 M). The LED's in the two front panel buttons will indicate if the inputs are locked (green) or not locked (red). The reference and SDI format do not have to match but if they are not gen-locked to each other the horizontal and vertical timing counters will just keep scrolling.

The SPA-435's design, performance and reliability are reflected in the New-Generation of Link Electronics products. Simple user interfaces with enter button, escape button, and a rotary knob are used for menu navigation. The 20X2 Vacuum Fluorescent Display shows the Vertical and Horizontal phase.

The SPA-435 is the first of Link Electronics Chameleon Series. The Chameleon Series will be able to change from one product to another just by downloading and installing the appropriate software, just like a Chameleon changes color.

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SPA-435 DigiPhase SDI Phase Analyzer

Chameleon Series

SPECIFICATIONS

Reference Input:

Reference: 2 BNCs 75Ω, Looping
Type: Tri-level (HD) or Bi-level (SD)
Level: 0.6Vpp (HD) or 1Vpp (SD) +/- 3dB @ 75Ω
Configuration: Single ended

Serial Digital Interface (SDI) Input:

Format: 270 Mb/s, 1.48Gb/s
SMPTE Standards: 259 M, 292 M, and 424 M
Connectors: 1 BNC 75Ω with 1 BNC 75Ω Active Loop-Thru
DC Offset: 0.5V maxim
Signal Level: 800mv ±10%

Serial Digital Interface (SDI) Outputs:

Connector 2 BNCs 75Ω
Format: Follows SDI Input, with Optional Timing Displayed on it
Signal Level:800mVp-p ±10%
DC Offset: ±100mV
HD Propagation Delay: 2.373 μS
SD Propagation Delay: 6.296 μS

Front Panels Controls & Indicators:

Timing and Menu Readout: VFD Display
Escape Button: Momentary Switch with LED
Enter Button: Momentary Switch with LED
Menu Navigation: Rotary Knob

Electrical:

Input Power: External +5 VDC Power Supply (Optional Dual)
Compliance: Designed to Meet UL Approval

Mechanical:

Height: 1.75 inches
Width: 19 inches
Depth: 9 inches
Weight: 4.75 Lbs.

Environmental:

Temperature: 0° to 50° C (ambient)
Humidity: 10% to 90% non-condensing

* Specifications and designs are subject to change at any time without notice.

PWT-400 Power Supply



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