

Analog, Component, High & Standard Definition SDI* and Audio Signal Monitor



The LCD Scope 400WVA has been designed to satisfy specific requirements requested by cost conscious users who need high quality, accuracy combined with familiar and intuitive operation.

The LCD Scope series has no cathode ray tube, using instead a liquid crystal display. It therefore has none of the problems associated with CRT's such as focus, stigmatism, parallax, EHT failure or high maintenance costs.

The LCD Scope contains the latest proprietary, digital designs from Hamlet, producing a range of unique PAL and NTSC devices, which may be used in a variety of environments. The LCD Scope makes an ideal replacement for existing or failing CRT units but is itself only 160mm deep. Like other innovative and award winning Hamlet products, the LCD Scope establishes a new method of measurement and monitoring utilising a base unit with only one option which may be retro fitted. As with all Hamlet products the LCD Scope includes a host of features and functions normally only associated with much more expensive devices.

This product contains proprietary patented designs.

Features and Functions

- Composite, component, - plus 4 audio bar graphs and phase display.
- SD SDI* option available.
- HD SDI* option available
- Multi-standard NTSC & PAL (PAL-M).
- Built-in low maintenance LCD.
- Full measurement functionality including, full field line select, bow tie and 3 filter, YUV and RGB parade displays.
- 4 channels of Analog Audio with embedded audio options
- Gamut violation display and alarm.
- External ref.
- HFT™ hands free timing.
- On screen mode displays.
- Audio Stereo ¼" Prof jack socket.
- RS232 remote control.
- Powered via 12Vdc mains adapter or from in-built batteries.
- Only 160mm deep, rack mount, stand alone or portable operation.
- Weighs only 2.5Kg.

*** Features available as options
(see options list below)**

TECHNICAL SPECIFICATION

INPUTS

Composite input. BNC connector with loop through output. Return loss better than 40dB. Zin of 22k. Max dc +/- 3 volts.
YC input. 4 pin mini din socket with loop through output. Return loss better than 40dB. Zin of 22k. Max dc +/- 3 volts.
Component input. 3 x BNC connectors with switchable terms. Return loss better than 40dB. Zin of 75R or 22k. Max dc +/- 3 volts. YCrCb or RGB.
SD Serial digital input*. BNC connector. Input impedance 75 ohms. Max d.c. +/- 10V.
SMPTE 259M, ITU-R BT.601/656 serial component. 800mV pp +/- 10% auto equalised up to 300 metres of cable.
HD Serial digital input*. BNC connector. Input impedance 75 ohms. Max d.c. +/- 10V.
SMPTE 292 serial component. 800mV pp +/-10% auto equalised up to 300 metres of cable.
Serial digital output*. BNC connector. Output impedance 75 ohms. Equalised version of the serial digital input.
External ref input. BNC connector with loop through output. Return loss better than 40dB. Zin of 22k. Max dc +/- 3 volts.

AUDIO

4 x Analog balanced inputs. Zin 22K.
4 x SDI embedded

AUDIO MONITORING OUTPUT

Quarter inch professional stereo jack.

REMOTE CONTROL

9 pin D socket for GPI, data up/down load and remote control.

POWER

10 to 13V d.c. to Centre neg 2.1mm skt.. 1A max.

ENVIRONMENT

Indoor use, 5 to 45 deg.C. ambient to 2,000m.
Max humidity 80% to 31 deg.C decreasing to 50% at 40 deg.C.
Overvoltage category 2. Pollution degree 1.

DISPLAY AREAS

Display 100mm x 75.5mm viewing area.
Waveform 256 pixels wide x 240 pixels high.
Audio/Gamut area 64 pixels wide x 240 pixels high.

WAVEFORM MONITOR

Response Flat is +/- 0.5% 50Hz to 5.5MHz.
Low Pass is -3db @ 1.5MHz, -60db @ 6.75MHz.
Timebase H, 2H and Hmag (x5). V, 2V and Vmag.
Line select is any line from the frame.
Parade is a 3H display of input or filter parade.

VECTOR MONITOR

Video Traditional component or composite display.
Component accuracy 0.2%. Bandwidth 3.375MHz.
Composite accuracy 1%. Bandwidth 1.3MHz.
Audio Stereo phase display of left or right audio pair. Phase accuracy 2 deg.
Gamut Poly™ display of RGB signal shows up illegal colours.

AUDIO MONITOR

Accuracy Better than 0.1db over full scale range.
Characteristics BBC, EBU, Nordic and VU.

PHYSICAL

DIMENSIONS: - 214mm x 131mm x 185mm.

WEIGHT: - 2.5Kg.

WARRANTY: - 1 Year.

Extendable free on registration:- To 2 Years
By using the service area of our web site
<http://www.hamlet.co.uk/serv.html>

ORDERING INFORMATION

400WVA LCD SCOPE

In-Built LCD display. Provides analog composite, component and audio monitoring capability.

* Features available as options (see options list below)

OPTIONS

400 - SDI	SDI input waveforms, vectors and embedded audio
400 - HD/SD	HD-& SD SDI input
400 - HD	HD-SDI input
400 - SRM	Single Rack Mount Kit
400 - AMU	Audio monitoring accessory
400 - SCC	Monitor Scope Soft carry case

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Hamlet Video International Ltd, Maple House, 11 Corinium Business Centre, Raans Road, Amersham, Bucks, HP6 6FB, England.

Tel: - +44 (0) 1494 729728 Fax: - +44 (0) 1494 723 237 Freephone (UK): - 0500 625525

E-mail: sales@hamlet.co.uk Website: www.hamlet.co.uk

Hamlet Video International USA, Tecads Inc, 26741 Portola Pkwy, Suite 1E, #601, Foothill Ranch, CA 92610-1763, U.S.A.

Tel: - +1 949-597-1053, Fax: - +1 949-597-1094 Toll Free: - 866-4-HAMLET

E-mail: sales@hamlet.us.com Web site: www.hamlet.us.com

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