

Multiformat Component, Analog & Standard Definition SDI* Waveform Monitor, Picture Monitor, Vectorscope and Video Signal Generator



The Hamlet Adept is a multiformat capable video monitoring instrument with On Screen Display (OSD) which also has a built in generator. This, the first of its kind in the world, is part of a unique range of units.

Due to the unit having both generation and monitoring in one box it is ideal where space is at a premium like OB vehicles and for engineers who need something with full functionality and portable for use in any location in the world.

The Adept provides SD SDI*; analog component; YC (S-video); and composite 625 and 525 multi-standard measurement and monitoring capability, including line select, bow tie and gamut indication. With new proprietary processing and filtering the Adept produces familiar high quality composite trace displays, which may be transmitted to any composite or YC monitor with SD SDI* or Hi Res* outputs as options. Operator display configuration recall is provided with a 10 mode store and recall facility. Easy instant access to all operating functions ensures a very short operator learning curve.

The Adept is a low power, compact replacement for CRT measuring units in all pre and postproduction areas.

Powered by mains or 12vdc it may be used for transportable environments.

Only 1U high and half rack width it can be rack mounted or used stand-alone. Primarily analog the unit can have and SD SDI* options included to complete its flexibility.

This product contains proprietary patented designs.

Features and Functions

- Multi-format inputs : Composite, Component & SD SDI*.
- Hmag, H, 2H, 3H, V, 2V, Vmag,
- Full field line select, Bow Tie and Parade displays.
- External reference with hands free timing (HFT™).
- 360 vector phase adjustment
- Chrominance pass, low pass & flat filters.
- Omni Display gives half size waveform and vectors together with half size background picture and audio.
- PAL and NTSC or PAL-M and NTSC operation.
- Insert, mix over picture or black background.
- 10 operational set up store and recall, and power down memories.
- Trace display store and freeze functions.
- Colour bars, Black, Pluge and Cross Hatch signals in 525 or 625 format and internal calibrator.
- Audio headphone stereo jack socket
- SD SDI* and Hi Res* output.
- 1U, 1/2 rack width, 30cm deep (11.8 inches).
- Weighs 1.25Kg (2.75lbs).
- 110/230VAC mains using supplied adaptor or 12Vdc powered.

* 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.
Component input 3 x BNC connectors. Return loss better than 40dB. Zin of 22k or 75R. Max dc +/- 3 volts. YCrCb, RGB or 3 x CST.
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.
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.

OUTPUTS

Composite output BNC connector. 1V to 75 ohms.
Component output 4 pin mini-din connector. 1V to 75 ohms. YC, YCrCb or RGB.
Waveform output BNC connector. 1V mono video to 75 ohms.
Serial digital outputs* BNC connector. 800mV to 75 ohms.
Hi Res output* 6 pin mini-din connector. Analog 0.7V R,G,B and H and V sync.

AUDIO

Analog input Stereo balanced input. Zin of 22K.
Digital input AES/EBU @ 48KHz, 44.1KHz or 32KHz. Zin of 200R.
Analog output Stereo balanced output at line level.

POWER

10 to 14V d.c. to 4 pin XLR. Pin 1 = ground, pin 4 = +12V @ 2A 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.

WAVEFORM MONITOR

Resolution 9 bit processing. Display resolution 512 x 512.
Response +/- 1% from 50Hz to 5.5MHz.
Low Pass is -3db @ 1.5MHz, -60db @ 6.75MHz.
Sensitivity 1volt encoded video reads 1 volt on screen. Mag is x 3.33.
Timebase Hmag, H, 2H & 3H.
Vmag, V, 2V & Line select.

DISPLAY AREAS

Waveform cutout boxes 38uS x 512 lines or 19uS x 256 lines.
Text cutout box 38uS x 16 lines at bottom of frame.
Audio cutout boxes 3.6uS x 512 lines at right of frame.

VECTOR MONITOR

Video Traditional component or composite (option) display.
Component accuracy 0.2%. Bandwidth 3.375MHz.
Composite accuracy 1%. Bandwidth 1.0MHz.

AUDIO MONITOR

Accuracy Better than 0.1db over full scale range.
Characteristics BBC Type 2, Nordic, VU and EBU.

PHYSICAL

DIMENSIONS: - 205mm x 320mm x 43 mm.

WEIGHT: - 1.5Kg.

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

A700WVA ADEPT

On Screen Display unit: with all options included provides analog composite component, YC, monitoring capability with associated audio, designed to satisfy the needs of the production professional plus Test Signal generation.

* Features available as options (see options list below)

OPTIONS

A700 - SDI	SD SDI input waveform, vectorscope and Embedded Audio
A700 - SDIO	SD SDI output
A700 - SRM	Single Rack Mount Kit

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