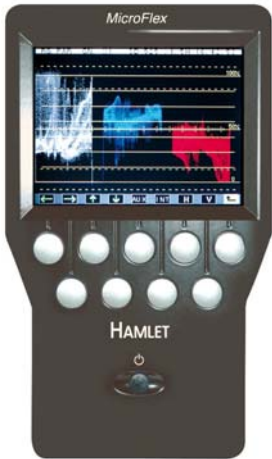


Multiformat Hand Held, Waveform, Vector and Audio Monitor



The Hamlet MicroFlex is the world's smallest multi-format multi-standard handheld waveform, vector, audio, and picture monitor.

Using a built-in 3.5" diagonal high quality and brightness TFT display shows the picture in 4:3 or 16:9 formats. Also shows conventional waveform, vector and audio displays together with data analysis.

Easy to plug-in input option modules allow operation in all current formats and enables future standards to be accommodated. There are two modules currently available HD/SD* and SD/Composite*, each also has AES/EBU and Embedded audio capabilities. An external reference is included which doubles up as the AES/EBU input. Audio levels can be shown as stereo bar graphs in a variety of standards, together with a vector phase display. Audio can be monitored on the via headphones. Accurate timing and level measurements can be made with digital cursors. Extensive error monitoring including EDH, colour gamut etc.

Computer downloads and data uploads are via USB. Coloured traces, Line Select, stuck bit detect (no activity on one data line).

It is ergonomically designed machined aluminium case, operating for over 2 hours on 6 x AA batteries or from the supplied 12V power adaptor.

Features and Functions

Hand Held Unit

- World's smallest hand held HD, SD, Composite capable measuring and monitoring instrument
- Data and gamut analysis, time code logging of assigned errors
- Easy access to full functionality: Parade (YCrCb), 2H, H, Hmag, 2V, V, Vmag, Full field line select, Bow tie, Ext - ref, HFT™ - (Hands Free Timing™), Filtering
- Coloured displays of waveforms, vectors audio bar graphs and phase display
- Select audio source, bar graph type, peak hold, de-emphasis
- Picture display in 4:3 or 16:9
- Built-in monitoring speaker, output jack
- Operator and factory store and recall presets
- Patented proprietary 10 bit processing of all signals
- Computer remote control, up/downloads data via the USB port or connection via new RJ45 option
- Internal battery or 12 VDC powered, mains adapter included

Module Options:

HD/SD*

- Input BNC.
- Loop Out BNC.
- Ext Ref. / AES input BNC.
- Auto sensing of HD and SD formats.
- Audio decode.

SD/Composite*

- Input BNC.
- Loop Out BNC.
- Ext Ref. / AES input BNC.
- Audio decode.

Other Options*:

- Hard carry case available to hold the unit and its option modules.
- Soft carry case to hold the unit and its option modules.
- RJ45

* Features available as options
(See options list below)

*This product contains proprietary patented designs.
US 6,493,024B1 GB2329294*

TECHNICAL SPECIFICATION

INPUTS WITH SDI-CST MODULE

INPUT

BNC connector.

Input impedance 75 ohms. Max d.c. +/- 10V.
SMPTE 259M serial digital at 800mV p/p.
Auto equalised up to 350 metres of cable at 270mb/s. PAL
or NTSC composite video 0.5 to 2.0V p/p.

SDI output.

BNC connector. Output impedance 75 ohms. Equalised
version of the serial digital input.

Ext-ref / AES input.

BNC connector. Input impedance 75 ohms. Max dc +/- 3
volts. Video 0.5 to 2.0V p/p.
Digital Audio min 150mV p/p, max 3V p/p conforming to
S/PDIF, AES3, IEC60958 or EIAJ CP1201.

INPUTS WITH HD-SD MODULE

SD/HD digital input.

BNC connector. Input impedance 75 ohms.
Max d.c. +/- 10V.
SMPTE 259M serial digital at 800mV p/p.
SMPTE 292M high definition serial digital at 800mV p/p.
Auto equalised up to 350 metres of cable at 270mb/s.
Auto equalised up to 140 metres of cable at 1.485Gb/s.

SD/HD digital output.

BNC connector. Output impedance 75 ohms. Equalised
version of the serial digital input.

Ext-ref / AES input.

BNC connector. Input impedance 75 ohms. Max dc +/- 3
volts. Video 0.5 to 2.0V p/p.
Digital Audio min 150mV p/p, max 3V p/p conforming to S/PDIF,
AES3, IEC60958 or EIAJ CP1201.

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 MONITOR

Audio Stereo phase display of left or right audio pair.
Phase accuracy 2 deg.

POWER

6 x AA batteries
12Vd.c. @ 500mA max.
Mains using included adaptor.

DISPLAY AREAS

Display area is 320x240 pixels (72mm x 54mm).

AUDIO MONITOR

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

AUDIO MONITORING OUTPUT

3.5mm stereo jack.

ENVIRONMENT

Indoor and Out door 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.

PHYSICAL

DIMENSIONS: - h 165mm x w 95mm x d 36mm.

WEIGHT: - 650g

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>

AVAILABLE MODULES*

High Definition/Standard Definition Serial Digital input module (all
current standards using one BNC) with embedded audio decoder.
HD/SD SDI loop out BNC and Ext reference in BNC. {MF-
HD/SD}.

Standard Definition SDI and Analog composite module, with
embedded audio decoder. {MF – SD/CST}.

ORDERING INFORMATION

MicroFlex

Multiformat hand held, waveform, vector and audio Monitor.

At least one input module required

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

OPTIONS

MF – chassis	MicroFlex chassis
MF – HD/SD	HD and SD SDI input module
MF – SD/CST	SD SDI and Composite input module
MF - XPSU	External Power Supply
MF – CC	Carry Case

Specifications and features herein are subject to change without prior notice. Hamlet Video International Limited products are covered by a number of Applied or
Granted UK, North American and World Patents. Prior art is claimed in All Territories on features and functions incorporated in the product designs herein.
Hamlet is a registered Trademark of Hamlet Video International Limited. Flexiscope, Whichwire and Videoscope are registered Trademarks of Hamlet Video
International Limited. Monitor Scope, Digi Scope, Adept, LCD Scope, Protean, Digi Gen, VidScope, GenPen, Micro Scope, Pico Scope, PC Scope, Chameleon,
Digital Window, Programme Level Meter and Stereo Scope are Trade Marks of Hamlet Video International Limited.

Hamlet products are Manufactured to ISO9001.2000 and ISO14001 specification.

Our most up to date information is available on our web site.

Copyright © 2006 Hamlet Video International

08/06

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

HAMLET[®]
EXCELLENCE IN VISION