



3G/HD/SD Waveform, Vector and Audio Measurement and Monitoring

The FlexiScope Module Opt 05 allows the display of 3Gb/s, HD and SD SDI video and audio signals on the MonitorScope, DigiScope 9000 series, in addition to the MicroFlex and FlexiScope hand held instruments.

The 3G/HD/SD serial input connection is made to the centre gold plated BNC socket, which is internally terminated at 75 ohms. The left BNC provides an equalised output of the input feed and the right BNC allows an external timing reference or AES audio signal to be input.

FlexiScope modules are simple to exchange in all instruments, just undo two screws and remove the module out of the main frame, insert the new module tighten the two screws and you are now ready for a new set of inputs (and outputs if a TSG module is chosen).

Television standards supported by this module:
including 1/1.001 standards.

3Gb/s, HD, SD Video and Audio signal Measurement and Monitoring

Raster Formats

486i / 59.94, 576i / 50 (ITU-R BT.601)
720p 50, 59.94, 60Hz (SMPTE 296M)
1080sF / 23.98, 24, 25, 29.97, 30Hz (SMPTE 274M, RP211)
1080i / 50, 59.94, 60Hz (SMPTE 274M)
1080p / 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz (SMPTE 274M, 425M)

Sampling

4:2:2 (SMPTE 372M)

Bit Rates

270Mbit, 1.485Gbit, 2.97Gbit (SMPTE 259M, 292M, 424M)

A Hamlet "Made to Measure product"

www.hamlet.co.uk and www.hamlet.us.com

Features and Functions

- Input BNC.
- Loop Out BNC.
- Ext Ref. / AES input BNC.
- Auto sensing of 3G/HD/SD formats.
- Audio decode

Instruments that can use this FlexiScope Module:

- **MicroFlex.** (Handheld rasterizer with built in screen, cursor measurements and error logging)
- **FlexiScope.** (Handheld rasterizer with built in screen, cursor measurements and error logging)
- **MonitorScope MS9000A.** (3U rasterizer with built in screen, cursor measurements, error logging and DVI output option)
- **MonitorScope MS9000B.** (3U rasterizer with built in monitoring screen and DVI output option)
- **DigiScope DS9000A.** (1RU DVI output rasterizer with cursors measurements and error logging)
- **DigiScope DS9000B.** (1RU DVI output monitoring rasterizer)

Please see the separate instrument datasheet for further information.

TECHNICAL SPECIFICATION

3G/HD/SD 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 250 metres of cable at 270Mb/s, 230 metres of cable at 1.485Gb/s and 140 metres of cable at 2.97Gb/s.

3G/HD/SD 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.

POWER

Supplied from the Mainframe Instrument.

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.

WARRANTY

AbsoluteCare:- 4 Years, providing the purchase is made direct from Hamlet or an authorised reseller and registration* is completed within one month of purchase.

Warranty Extension: - Can be ordered, please contact us for details.

*By using the service area web site <http://www.hamlet.co.uk>

ORDERING INFORMATION

FlexiScope modules are available as options to fit the following instrument chassis: MicroFlex, FlexiScope, MonitorScope (MS9000A & MS9000B) and DigiScope (DS9000A & DS9000B).

Please therefore use the following codes to identify the relevant host chassis for Option 5:

MF 3G/HD/SD
FS 3G/HD/SD
MS 3G/HD/SD
DS 3G/HD/SD

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

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

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