PT0710M HD/SD Waveform Monitor

PRODUCT CODE: PT0710M



The PT0710M has been designed to meet the increasing demands by broadcasters to reduce costs. In order to achieve this we have launched an entry level of our respected PT0760M which reduces the facilities without compromise on quality.

The PT0710M is capable of being upgraded to the full facilities of its big brother the PT0760M without loss of any facilities.

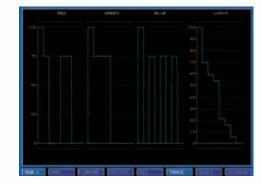
This entry level Waveform Monitor can display the waveform of the constituent parts of the image, Red (R), Green G) & Blue (B) plus Luminance (Y). An optional facility to measure the incoming signals against an external reference can be provided through the **STA - Smart Timing Analysis** - which can display timing differences in the SDI inputs from the external reference (Black Burst or Tri-Level).

The PT0710M employs the PT0760M feature of **SVLC – Smart Video Landscaping Compressor** - which provides highlighting of the detail within the signals. This makes any errors easier to see and improves the user experience. The PT0710M provides user adjustable Colour Gamut Alarms which are displayed on the screen in a highly visible Red Flash

The PT0710M can be viewed on an external screen and can show up to 16 embedded audio channels. These audio signals are routed to the bargraph audio metering and to an output card

(optional) for audio monitoring on an external device, this option requires the upgraded audio software.

The meter can be equipped with Dolby E decoding (optional) to allow extraction to the audio meters of all elements of the Dolby encoded signal, this option requires the upgraded audio software.



Options..

- PT0700R Client Panel for remote operation
- PT0710M to PT0760M Software Upgrade*
- HD/SD SDI Output*
- Closed Caption Display
- External Reference Input Module including Loop-Through
- 8 Channel Analogue Audio Input Module*
- 8 Channel Analogue Audio Output Module*
- 4 x AES3 Digital Audio Input Module*
- 4 x AES3 Digital Audio Output Module*
- Dolby E Decoder*

- ITU Loudness BS1770/BS1771 (LU, LKFS & LUFS scale)*
- StarFish™ & JellyFish™ for 5.1/6.1/7.1 Surround Sound*
- · Level/Loudness Logging*
- BLITS Tone Generator*
- Spectrum Analyzers (1/3rd Octave & FFT)*
- External Screen controller to permit individual controls of internal and external screens*
- Table top stand
- 19" x 3u rack mount frame

HD 1080p	HD 720p
1080p/30	720p/60
1080p/29.97	720p/59.94
1080p/25	720p/50
1080p/24	720p/30
1080p/23.98	720p/29.97
	720p/25
	720p/24
	720p/23.98
HD 1080i	SD
1080i/30	576i/25 (625)
1080i/29.97	487i/29.97 (525)
1080i/25	



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Ordering Information...

PT0710M

1 HD/SD Channel Input, Auto Sensing, inc RGBY, Vectorscope, Colour Gamut Alarms, Audio De-embedding, Simple bargraph metering (16 Ch) & DVI/VGA O/P

PT0760M-DT/STAND

Desktop Stand for PT0760M/PT0740/PT0730M/PT0710M /PT0660M/PT0600M

PT0760M-RM/KIT

19" 3RU Rack cabinet to house any combination from PT0760M/PT0740/PT0730/PT0710M /PT0600M/PT0660M/ PT0200C/PT0700R

PT0760M-ANAREF

External Analogue Black Burst/Tri Level reference with loop through

Features...

- HD/SD Input Auto Sensing
- Waveform Monitor
- Vectorscope
- Colour Gamut Alarms
- Fully adjustable intensity for scale, trace and background
- SVLC Smart Video Landscape Compressor for detail highlighting
- STA Smart Timing Analysis (Optional)
- Full HD/SD Audio De-embedding
- Alternate Audio & Video display
- Independent Video & Audio controls
- Multi-user Control Panel (Optional)
- DVI/VGA Output
- 19" Rack mount (3U high half-rack unit), short depth for compact installations
- The powerful preset menus, allow the PT0710M to be at the heart of both operational and engineering workstations



PT0710M HD/SD Waveform Monitor



PTO710M - HARDWARE OPTIONS

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HD/SD VIDEO



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PT0760M-SDI-4I* SDI input specifications:

SMPTE-Formats: 259M, 292M Connector: BNC, 75Ω

(Internally Terminated) Return Loss: >15dB

(5MHz - 1.5GHz) Input Level: 800mVp-p, ±10%

(0m Cable) **Equalization Range:** 259M: 0-280m

(Belden 8281 cable type): 292M: 0-100m



External Analogue Video reference:

Connector: BNC, 75Ω (Not internally terminated)

Return Loss: >35dB

(5MHz to 30MHz) 1Vp-p typical, 2Vp-p Input Level:

(Maximum)

Supports video standards

SDTV: SMPTE 125M SMPTE 267M

ITU-R BT .601 (4801, 5761)

HDTV: SMPTE 296M(720P)

SMPTE 274M(1080I/P) SMPTE RP 211 (1080PsF)

GENERAL SPECIFICATIONS

General Connectivity:

DVI-I (DVI or VGA) External Display:

640x480p60 1280x720p60 24 bit color

Monitor, Control & Update RS232 / USB (-A) / (RJ45)

Power Supply:

Power input Connector: XLR4-male Input Voltage: 12-36VDC Power Usage: 15-40W

Physical Characteristics:

Height: 133.4 mm Width: 215.2 mm Depth: 145 mm Max. Weight: 2,5kg (typical)

Environmental Conditions:

Storage temperature: -20° to +70°C Operating temperature: +5° to +45°C

Humidity: Non-condensing (IEC 721)

ANALOGUE & DIGITAL AUDIO

PT0760M-0/P-8A*

8 Channel Analogue Audio Output Module:

25 pin Female D-Sub Connector:

Sample Rate with

internal Sync: 48kHz

Max. Output Level at 600Ω : +18dB (VCC=12V) +24dB (VCC >20V)

24 bits. Bit Resolution: Frequency Range: 30Hz to 20kHz \pm 0.3dB

Sample rate range with

32 kHz to 50 kHz external sync: Group delay: <0.21 msec Dynamic range A-weighted: >101 dB Crosstalk at 1 kHz: $< -96 \, dB$ Signal-to-noise ratio: 93 dB (typical) Nominal output impedance: < 5 ohm

PT0760M-0/P-8D*

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4 Channel Digital Output Module (AES3):

Connectors: 15 pin Female D-Sub (AES3-2003) &

4 x BNC (AES3-id2001) Sample rate with 48kHz internal Sync:

Output Level (BNC), 75Ω: 1٧ Output Level (D-Sub), 110Ω: 5V (balanced) Bit Resolution: 24 bits.

PT0760M-I/P-8A*

8 Channel Analogue Audio Input Module (balanced):

Connector: 25 pin Female D-Sub. Sample Rate with internal Sync: 48kHz Max. input Level: +24dB Bit Resolution: 24 bits

30Hz to 20kHz ±0.3dB Frequency Range:

Nominal input impedance: $> 20 k\Omega$ Group delay: <0.82 msec Dynamic range, A-weighted:>103 dB Crosstalk at 1 kHz: < -96 dBSignal-to-noise ratio: 93 dB (typical)

PT0760M-I/P-8D*

4 Channel Digital Input Module (AES3):

15 pin Female D-Sub Connectors: (AES3-2003) & 4 BNC

(AES3-id-2001) Sample rate internal: . 48kHz

Sample rate for input module:

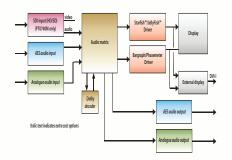
8kHz - 108kHz Input Level: >500mV Bit Resolution: 24 bits Input impedance: 110Ω

Group delay: 1.75 msec (Max.) -103 dB @ 1 kHz (typical) THD & Noise:

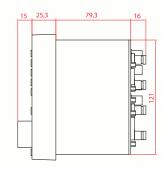
Dynamic range: $>120 \, dB$

*Requires PT0710M-SW-Upgrade

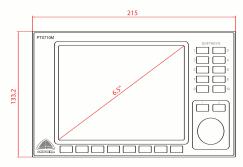
INFORMATION

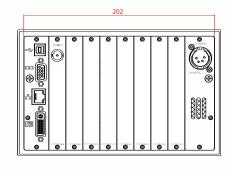


Side View



Front View







DENMARK

Tel:

Fax:

DK-Technologies A/S,

+45 44 85 02 55

+45 44 85 02 50

Email: info@dk-technologies.com

Marielundvej 37D,

DK-2730 Herlev.

DK - Technologies WORLDWIDE OFFICES:

DK-Technologies Germany GmbH, Tibarg 32c, D-22459 Hamburg.

GERMANY

+49 (0) 40 70 10 37 07 Tel: +49 (0) 40 70 10 37 05 Fax: Email: cr@dk-technologies.com

DK-Technologies (UK) Ltd, Coles Yard Barn, North Lane, Clanfield, Hampshire PO8 ORN, England. Tel: +44 (0) 23 92 59 61 00

+44 (0) 23 92 59 61 20 Fax: Email: info.uk@dk-technologies.com

DK-Technologies America, 2100 B2 Walsh Ave, Santa Clara, CA 95050-2590, USA. 0800 421 0888 Tel:

www.dk-technologies.com

+45 44 85 02 50 Fax: Email: info@dk-technologies.com