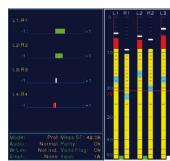
# The perfect choice for professionals DigitalMonitor 8ch 10689-PLUS









## DigitalMonitor 8ch 10689-PLUS

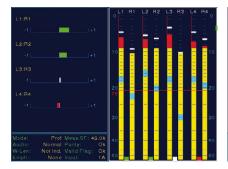


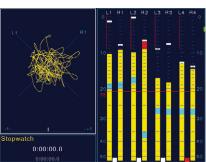


### Facts and Figures

Digital 8-Channel Peak Program Meter with Audio Vectorscope

For monitoring level, correlation and loudness of DIGITAL stereo and multi-channel signals and mix outputs in fully-digital studio environments.







- Up to 8-channel peak level and loudness meters
- Multi-fold correlator display
- Stereo vectorscope for freely selectable channel pairs
- AES3 status monitor
- Stopwatch
- Presets for scales, ballistics and colors.
  Settings can be locked
- Four AES3 inputs via 25-pin Sub-D-F connector
- Compact table-top unit with 6.5" color TFT display (VGA)
- Remote control interface
- VGA-output for an optional external VGA display

#### Audio monitoring in digital environments

The DigitalMonitor 8ch 10689 is a sophisticated and budget-friendly display system for monitoring digital stereo and multi-channel audio signals. This eight-channel unit with four AES3 inputs comes in an attractive table-top unit that also can be fitted with an optional table stand.

Based on the 10600 hardware, the unit has been extended to eight digital inputs and stripped off the surround functionality. It has been developed especially for monitoring multi-channel audio signals and mix outputs, i. e. in network control rooms or at PC workstations.

The DigitalMonitor 8ch 10689 has four AES3 signal inputs for seamless integration into fully digital studio environments. Eight multi-standard peakmeters with integrated loudness display, a stereo vectorscope for freely selectable channel pairs, as well as an informative status monitor for the digital input signals are clearly presented on a large VGA display. An optional VGA monitor can be connected to the unit. Up to eight user-specific channel and display configurations can be stored as presets and recalled at any time.

# Specifications

Functions	
	Up to 8-channel digital Peak Program Meter, Multi Correlator, Audio Vectorscope 2/0, Digital Over, Mute detection and AES3 status display, Stopwatch
Digital Inputs	
Quantity	4 (Stereo), AES3, transformer balanced, 110 Ohm (internal detachable), Sampling frequency range 32 kHz – 96 kHz
Digital Outputs	
Quantity	4 (Stereo), AES3, input signal looped through, unbuffered
Digital Peak Program Me	ter (PPM)
Level display	Up to 8 ch. vertical bargraphs, Peak Hold and loudness indicator switchable
Loudness meter	Additional spot indicator on the bargraphs: RTW mode or A, C, Leq (M) (CCIR-2k) weighting
Display modes	2-ch. Stereo, 2 x 2-ch. Stereo, 3 x 2-ch. Stereo, 4 x 2-ch. Stereo, 2-ch., 4-ch., 6-ch., 8-ch.
Peak value memory	Peak Memory, Peak Hold
Scales	Digital 1 (0 dBFS to -60 dBFS), Digital 2 (0 dBFS to -20 dBFS), Digital 3 (-18 dB to +18 dB), Digital 4 (-2 dB to +18 dB), Digital 5 (+20 dB to -40 dB), Digital 6 (+9 dB to 0 dB to -60 dB), quasi DIN: DIN-5, DIN-10, Nordic, British IIa, IIb, Zoom 2, Zoom 20
Headroom	Adjustable from -5 dB to −20 dB in 1 dB steps
Integration time (Attack)	Digital 1 - 6: Sample, 0.1 ms, 1 ms, 10 ms quasi analog: Norm, Sample, 0.1 ms, 1 ms
Fall back time	According to the selected standard (1,5 s/20 dB for DIN)
Gain	Digital 1 - 6: +40 dB; quasi analog scales: DIN, Zoom 2, Zoom 20: +20 dB, British, Nordic: +40 dB
DC filter	Off, 5 Hz, 10 Hz, 20 Hz
Peak Hold indicator	Integration time same as level display (see above) or 1 sample
Digital Over indicator	Red spot indicators above each bargraph
Threshold	Full Scale, Full Scale-1LSB, Full Scale-2LSB, -0.1 dBFS, -0.5 dBFS, -1 dBFS, -2 dBFS, -3 dBFS
Attack time	1 - 15 samples
Word length	16 - 24 bit
Mute indicator	Red spot indicators below each bargraph
Threshold	All bits digital "0"
Attack time	50, 100, 200, 300 ms or 5 to 80 Samples (selectable in steps of 5 samples)
Total Loudness Meter	
Display	in Stereo mode
Calibration	SPL reference 72 to 80 dB (single channel)
Total loudness/SPL	70 to 98 dB
Weighting filters	Linear, A, C, Leq(M)(CCIR-2k), RTW mode, all RMS (fast/slow)

Display	in 8-ch. mode up to 4 phase meters for up to 4 channel pairs
Display mode	Spot indicator or bargraph
Attack time	Fast: 1 s, Slow: 2.5 s
Negative peak correlation memo	ory included in Peak Memory
Audio Vectorscope	
Display	Stereo vectorscope for freely selectable channel pairs
Modes	X/Y or M/S
AGC	auto
AES3 Status Monitor	
Status information	locked, decoded AES/EBU status, parity, validity
General	
Supply voltage	24 V DC (21 V - 30 V DC)
Current consumption	290 mA (24 V DC) nominal, switch-on current is much higher
Power consumption	6.5 W maximum
Operating temperature range	0° to 45° C
Storage temperature range	-30° C to +85° C
Display	
Туре	color TFT, 6.5", VGA (640 x 480 pixel), visible area 132 x 99 mm
Connectors	
Digital input	25-pin Sub-D-F socket
Digital output	25-pin Sub-D-F socket
Monitor output	15-pin Sub-D-F socket (VGA)
Remote	15-pin Sub-D-F socket
DC connector	Type "Binder 710" locking 4-pin low voltage connector
Design, Dimensions	
Table-top unit	Case: graphite grey (RAL 7024), Scale, front: silver, labeling: black
Dimensions	176.5 x 125,5 x 61.5 mm (W x H x D excl. table stand)
Weight	approx. 750 g incl. table stand
Items delivered	
	10689-PLUS: manual, table stand, mains adapter
Optional Accessories	,
	1163 Snake cable 25-pin Sub-D-M to 8 XLR-M (output fan-out)
	1186 Snake cable 25-pin Sub-D-M to 8 XLR-F (input fan-out)
	13711 Adapter frame for mounting into 190 mm systems
	13713 Panel mounting kit (for mounting 10600 in panel cut-outs)
	1171-R wide voltage power supply 90 - 264 V AC/24 V DC, 0.63 A
	1175-R wide voltage power supply 100 - 240 V AC/24 V DC, 2.7 A



