

Specifications

Transport stream

Signal inputs

MPEG2 transport stream	to ISO/IEC 1-13818
Length of data packets	188/204/208 byte
Synchronous parallel (SPH-LVDS, to DVB-A010)	25-pin connector on front panel
Data rate	100 mV to 2 V _{pp} , 100 Ω
Asynchronous serial (270 Mbit/s (ASI, to DVB-A010))	BNC connector on front and rear panel
Data rate	up to 80 Mbit/s
Video serial digital 270 Mbit/s (SDI, to ITU-R 601)	BNC connector on rear panel
Audio serial digital (AES/EBU)	corresponding to SMPTE259M
	LEMO-Triax connectors on rear panel
	400 mV to 12 V _{pp} , 110 Ω

Signal outputs

Video CCVS (PAL, SECAM, NTSC)	BNC connector on rear panel
	1 V ± 1% (V _{pp}), 75 Ω
C/L gain	± 2%
C/L delay	± 30 ns
Return loss (0 to 6 MHz)	> 34 dB
Frequency response (typical values)	
0 to 3 MHz	+ 1% / - 2%
< 4 MHz	+ 1% / - 5%
< 5 MHz	+ 1% / - 1.5%
Video serial digital 270 Mbit/s (SDI, to ITU-R 601)	BNC connector on rear panel
	800 mV _{pp} , 75 Ω
Audio	unbalanced, not floating
Level (full scale)	6/9/12/15 dBu ± 0.5 dB
Frequency response (60 Hz to 15 kHz)	± 0.5 dB relative to 1 kHz, into 600 Ω
S/N ratio	> 70 dB, unweighted
THD	> 70 dB
Audio left, audio right	LEMO-Triax connectors on rear panel
	< 50 Ω
Audio serial digital (AES/EBU)	LEMO-Triax connectors on rear panel
	4 V _{pp} , 110 Ω

Operation

Manual control	front-panel keys with LC display, output of test results on LCD as well as text inserted in video output signal
Remote control	via RS232 interface or Ethernet (network)

Interfaces

Serial interface	12-pin sub-D connector on rear panel
	RS232, 9600 to 115,000 bd
	remote control
Parallel interface	25-pin sub-D connector on rear panel
	printer output
Network	RJ45 connector on rear panel
	Ethernet, 10BaseT, 10 Mbit/s
	remote control, system integration
Relay outputs	15-pin connector on rear panel
Number	12 with any allocation to events, ORed in case of allocation to several events
Active state	separately selectable (open or closed)

Test parameters

Events	audio loss left
	audio loss right
	picture loss
	picture freeze
	quality below (user-selectable) level
Recording Statistics	error seconds of events
	according to type
	display selectable according to type
	listing of events according to time
	optional filtering according to type
	display per entry: time, duration, PID, type
Report	
Video data analysis	temporal activity
	spatial activity
	digital video quality level, unweighted (DVQL-U),
	separately for luminance and chrominance (Y, C _b , C _r)
	digital video quality level, weighted (DVQL-W)
	total level corresponding to subjective assessment
Display	
Current values	bargraph
	numeric values
Recorded values	time profile
	histogram
Time frame for recording	5 s, 10 s, 30 s, 1 min, 5 min, 10 min, 30 min, 1 h, 2 h, 5 h
	single-shot or continuous

General data

Rated temperature range	+ 5 °C to + 40 °C
Operating temperature range	0 °C to + 45 °C
Storage temperature range	- 40 °C to + 70 °C
Mechanical resistance	
Sine vibration	5 Hz to 150 Hz, max. 2 g at 55 Hz, max. 0.5 g in range 55 Hz to 150 Hz, complies with IEC 68-2-6, IEC 1010-1 and MIL-T-28800 D class 5
Random vibration	10 Hz to 300 Hz, acceleration 1.2 g (rms)
Shock	40 g shock spectrum, complies with MIL-STD-810 D and MIL-T-28800 D class 3 and 5
Climatic conditions	+ 25 °C / + 40 °C cyclically at 95% rel. humidity, complies with IEC 68-2-30
Electromagnetic compatibility	complies with EN 50081-1 and EN 50082-2 (EMC directive of EU)
Power supply	85 V to 264 V, 47 Hz to 63 Hz
Power consumption	20 W (without options)
Electrical safety	complies with EN 61010-1
Dimensions (W x H x D)	427 mm x 88 mm x 450 mm
Weight	6 kg

Ordering information

Digital Video Quality Analyzer	DVQ	2079.6003.02
Accessories supplied	power cable, operating manual, audio adapter (Lemo-Triax to XLR), modem bypass cable	

Options

Quality Explorer™ Software	DVQ-B1	2079.7151.02
Calibration Data Documentation	DVQ-DCV	2082.0490.20

Recommended extras

19" Rack Adapter (2 HU)	ZZA-211	1096.3260.00
Service Manual		