quantumdata

VIDEO TEST GENERATORS

Mobile. Versatile. Affordable.

If you're testing digital or analog computer monitors, video projectors, multi-media monitors, broadcast displays or TVs, the 700A Series video test generators provide the signals, test patterns, and audio to do your job, easily and accurately.

Field technicians and factory people on the move will appreciate the convenience of battery power and small size. The 700A Series is designed to go where you go.

700A/701A

700A/701A

Formate

Storage	126 total
Built-in	VESA, DVI, NTSC/PAL, HDTV/SDTV-RGB, HDTV/SDTV-YPbPr
Edit method	MS Windows-based Video Generator Manager (VGM)
Compatibility	QD 801, 802, 60x formats

Images

Standard	Flat_Wht, Flat_Red, Flat_Grn, Flat_Blu, Grid, Rev_Grid, Overscan (with circles), Raster (no video), Cutoff, Window, Focus, ColorBar, GrayBar, Regulate, Checker, Dot_12, SMPTEBar, Ramp, PluseBar, Burst
Gray levels	16
Colors displayed	16

Test Sequence

Storage	100 steps
Edit method	VGM
Parameters	Format, image, duration (0.1 sec. to 24 hours)

Horizontal Timing

Frequency	1 KHz - 250 KHz
Total pixels	144 to 4096
Active range	16 to 4096 pixels

Vertical Timing

Frequency	1 Hz - 650 Hz
Active lines	1 - 4096
Sync types	Separate, digital/analog composite
Scan types	Progressive, interlace, HDTV

Video Outputs

DVI

Connector	DVI-I dual link
Links	Single link 25MHz-85MHz
Encoding	RGB (4:4:4 with 8-bits/component)
TMDS differential swing	150–1560 mVp-p (programmable)

Analog Component

Connector	DVI-I
Color encoding	RGB, YPbPr
Pixel rate	13.5–148.5 MHz

Analog Composite

Connectors	BNC, Mini DIN-4
Interface	CVBS (BNC) and S-Video
Encoding	NTSC and PAL
Sample rate	24.55–29.50 MHz
Pixel rate	12.27–14.75 MHz
Pixel aspect ratio	Standard or square
Swing	1000 mVp-p fixed w/programmable calibration
Calibration	Self-calibration with internal reference

SDI / HD-SDI (Optional)

Connector	BNC 75 ohm
Links	Single
Bit stream	1.485 Gb/s and 1.485/1.001 Gb/s
Encoding	4:2:2
Bits/component	10-bits/component
Sampling mode	YCbCr
Signal swing	800mV
Standards	SDI - SMPTE 259M; HD-SDI - SMPTE 292M-C

Audio Output

Signals	Two channels
Frequency	1 KHz (left), 2 KHz (right) tone
Connector	Mini phone jack, stereo

User Interface

Display	20 x 4 character LCD with backlight
Controls	Intuitive drill-down menus

Computer Port

Type	RS-232C, 9 pin D-Sub receptacle
Purpose	Copy formats and firmware updates from PC

Color Sensor Support

Description	Display data from a QD CS-1 color sensor for white balance adjustment.

DDC (Display Data Channel)

Description	Read a monitor's EDID data and display the manufacturer's supported formats
Version	DDC-2B (read only)

Power

DC	6 AA NiMh batteries included
Battery life	8 hours between charges with NiMh
AC	Charger/generator power supply
Charge time	
Frequency	8 hours
Voltage	50 to 60 Hz 100- 250 VAC (auto-select)

Weight

Unpacked	21 oz
Shipping	3.5 lb

Size

Unpacked	6 x 8.25 x 2 in.

	VESA	Analog Component	NTSC	SDI/HDSi	DVI	HDCP
700A	✓	✓	✓		✓	✓
701A	✓	✓	✓	✓	✓	✓

Specifications are based on hardware and firmware revisions available as of March 2014, and are subject to change without notice.

Revised 03/24/14

0512-62839996   0512-6283997
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