# 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 p atterns, 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.



### RGB/YPDP/ VESA/HDTV S-VIDEO O O RS-232 AUDIO POWER

#### KEY FEATURES + BENEFITS

analog and digital video signals Output VESA, NTSC, PAL, HDTV, DVI, and SDI/HDSDI (701A) signals.

custom formats Create your own video formats.

compact size The 700A series units are truly handhelds.

**battery operation** Use rechargeable batteries or AC power.

HDCP (optional) HDCP production keys available

service center patterns The patterns used by most service centers are built-in.

circles Use circle patterns to test linearity.

learn monitor Read the supported formats from the monitor, without guessing formats.

**built-in audio** Test audio channels of video projectors and multimedia monitors.

video generator manager MS Windows-based user interface for creating formats and test sequences.

custom test sequence Define sequences of images and video formats for repetitive testing.

affordable Low-cost and versatile test solution.

easy firmware updates Install product updates yourself in the field.

intuitive user interface Easy to navigate drill-down menus.

**leverage existing formats** Use formats created for QD's 80x and 882 generators.

user calibration Calibrate the 700A Series yourself to save time and money.

700A/701

#### **APPLICATION TESTS**

Formate	100 +++-!
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
Standard	
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

#### SPECIFICATION

#### **Video Outputs** ועם

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**

BNC, Mini DIN-4
CVBS (BNC) and S-Video
NTSC and PAL
24.55–29.50 MHz
12.27–14.75 MHz
Standard or square
1000 mVp-p fixed w/programmable
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

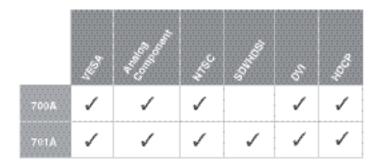
#### Audio Output

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

## 00A/701A

User Interface	20 x 4 character LCD
Display	
O a un bura la	with backlight
Controls	Intuitive drill-down menus
Computer Port	
Туре	RS-232C, 9 pin D-Sub receptacl
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 Char	nnel)
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
DC Battery life	6 AA NiMh batteries included 8 hours between charges
Battery life	8 hours between charges with NiMh
Battery life	8 hours between charges with NiMh
Battery life AC	8 hours between charges with NiMh Charger/generator power sup-
Battery life AC Charge time	8 hours between charges with NiMh Charger/generator power sup- ply
Battery life AC Charge time Frequency	8 hours between charges with NiMh Charger/generator power sup- ply 8 hours
Battery life AC Charge time Frequency	8 hours between charges with NiMh Charger/generator power sup- ply 8 hours 50 to 60 Hz
Battery life AC Charge time Frequency Voltage	8 hours between charges with NiMh Charger/generator power sup- ply 8 hours 50 to 60 Hz

#### 6 x 8.25 x 2 in. Unpacked



Size

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

Revised 03/24/14



苏州群乔贸易有限公司 <sup>电话:0512-62839996</sup> 传真:0512-6283997 地址:苏州工业园区通园路398号海逸大厦5018室