

# 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.





#### KEYFEATURES + 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

lest 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/701A

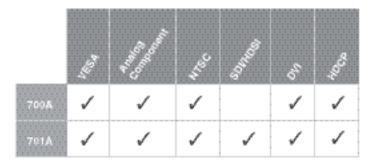
# **SPECIFICATION**

# 700A/701A

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	1 1/1  - 050 1/1  -
Frequency Total pivola	1 KHz - 250 KHz 144 to 4096
Total pixels	
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

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

20 x 4 character LCD
with backlight
Intuitive drill-down menus
RS-232C, 9 pin D-Sub receptacle
Copy formats and firmware
updates from PC
t
Display data from a QD CS-1
color sensor for white
balance adjustment.
hannel)
Read a monitor's EDID data
and display the manufacturer's
supported formats
DDC-2B (read only)
6 AA NiMh batteries included
8 hours between charges
with NiMh
Charger/generator power sup-
ply
8 hours
50 to 60 Hz
100- 250 VAC (auto-select)
21 oz
3.5 lb
6 x 8.25 x 2 in.



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

Revised 03/24/14