



quantumdata

802BT-CASS – VIDEO TEST GENERATOR

Quantum Data is proud to have been selected as a standard instrument for the Navy Consolidated Automated Support System (CASS) program with its 802BT-CASS Video Test Generator. The CASS program is design to consolidate electronic and avionics support into one standard ATE system.

The 802BT-CASS test instrument provides the necessary video outputs for the CASS program including: analog component, analog composite and EGA.

All the required video resolutions (timing formats) and test patterns are available with the 802BT-CASS for the CASS program.

Control is through the front panel knobs and LCD or serial command line through RS-232 or GPIB.

Note: The 802BT-CASS, with Firmware version 7.48319455, is form, fit and function to its predecessor the Quantum Data 802GX.



FEATURES / SPECIFICATIONS

Analog Component Video Output

Connectors:

HD-15 D-Sub (VGA type) @75 ohms
(5)BNC RGBHV @ 75 ohms

Video levels:

Video swing: 0-1000mV
Sync swing: 0-400mV
Video setup: 0-100 IRE

Analog Composite Video Output (CVBS)

Connector: BNC @75 ohms

Encoding: NTSC, PAL

Video Swing: 700mV, adjustable 0 - 1000mV

Sync Swing: 300m, adjustable 0 - 400mV

EGA Video Output

Connector: 9-Pin D-Sub

Signals:

Digital TTL RrGgBb

Special Sync

Connector: BNC @ 75-ohm

Programmable pulse can be positioned anywhere in the video field. Used for synching camera or oscilloscope.

Timing Specifications

Pixel Timing

Pixel Rate (composite): 12.27 - 14.75MHz

Pixel Rate (component): 3.9975MHz - 200.00MHz

Pixel Rate (TTL): 9.375 - 55MHz

Pixel Resolution: 1.465Hz

Jitter: <800ps line to line

Horizontal Timing:

Frequency: 2.29kHz - 190kHz

Total pixels/line: 144 - 65,535

Active pixels/line: 16 - 4096

Sync pulse width: 1 - 65,519 pixels

Sync delay (front porch): 1 - 65,519 pixels

Vertical Timing:

Frequency: 1Hz - 650Hz

Total lines: 2 - 4095 progressive; 5 - 8191 interlaced

Active lines: 1 - 4094 progressive; 2 - 4096 interlaced

Blank lines (min): 1 to Total - 1

Step (increment) lines: 1 progressive; 2 interlaced

Composite sync types: ORed, Serrated, Serrated/
Equalized, Tri-level

Video Memory

Configuration:

Indexed color: 4096 x 4096 @ 8-bit

True color: 2048 x 2048 @24-bit color

Color depth

24-bit True Color up to 82.5MHz

8-bit up to 200MHz.

Video Formats

Over 200 standard formats for IT, CE, military

Test Patterns

Over 200 standard test patterns

Administration/Control

Front panel knobs and LCD (16 char x 2 line)

Control interfaces: RS-232 serial and GPIB

General Specifications:

Power - AC Mains

Frequency: 47Hz to 63Hz

Voltage: 90VAC to 264VAC

Size

W: 12.2in (310mm); H: 3.8in (97mm); D: 7.7in (196mm)

Weight: 7 lbs (3.2kg)

Operating Temperature

0 to 40 deg C

Humidity: 30% to 80% RH (non-condensing)

Firmware Version

7.48319455