



quantumdata

## 804/804A Video Test Generator

# The Model 804/804A Video Test Generator...



...Quantum Data's solution for testing HDTVs in manufacturing

# Key Features and Benefits

- **Four (4) HDMI outputs.** All active simultaneously.
- **Analog video outputs.** Component and composite analog video outputs.
- **Standard video timings and patterns.** Supports standard video timings and test patterns including 3D test patterns.
- **HDMI protocol tests.** Run quick pass/fail tests on HDMI protocols such as HDCP, EDID and CEC.
- **HDMI and analog audio outputs.** Supports testing of HDMI uncompressed, compressed and lossless compressed audio formats.
- **Digital audio inputs.** Tests an HDTV's digital audio outputs—SPDIF and optical (future).
- **Rack mountable.** Fits in a standard 19" relay rack. Occupies two rack units.
- **Color touch display.** Provides color touch display for control and status monitoring.
- **Serial command line interface.** RS-232 interface for control through automated test system.
- **Attachable Keyboard.** Connect keyboard to RS-232 or USB host interface.

# Key Features and Benefits – Four (4) HDMI Outputs

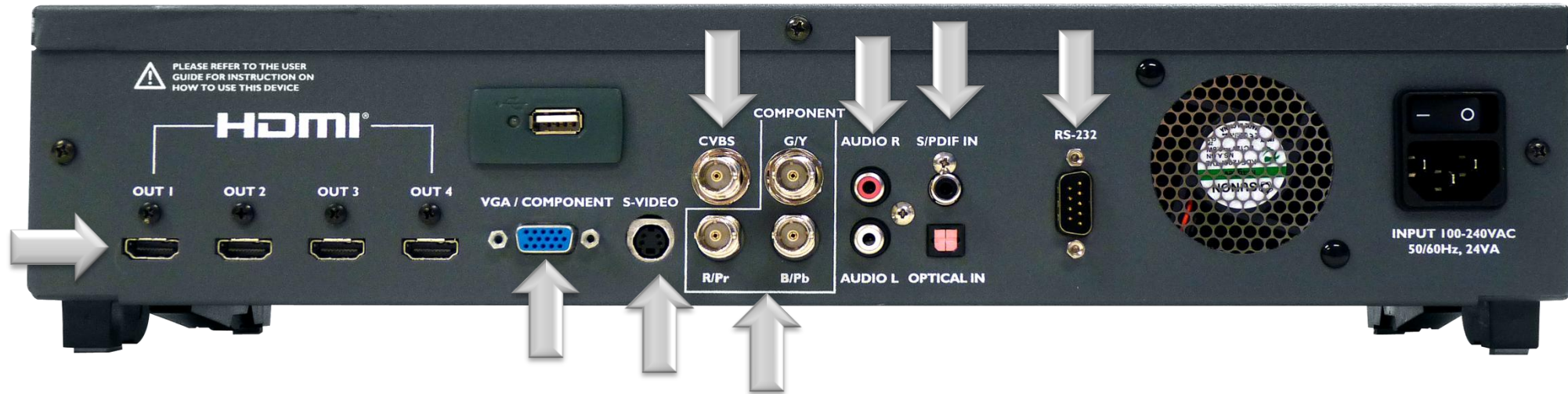
- **804 HDMI output specs**
  - **Max pixel clock with 24 bit/pixel color:** 165MHz; e.g. 1080p at 60Hz.
  - **Max TMDS clock with 36-bit/pixel deep color:** 225MHz (2.25Gb/s per channel); e.g. 1080p at 60Hz.
- **804A HDMI output specs**
  - **Max TMDS/pixel clock with 24 bit/pixel color:** 297MHz; e.g. 4K x 2K at 30Hz.
  - **Max pixel clock with 36 bit/pixel color:** 165MHz; e.g. 1080p at 60Hz.
  - **Max TMDS clock with 36 bit/pixel color:** 225MHz (2.25Gb/s per channel); e.g. 1080p at 60Hz.

# 804/804A Front Panel Interfaces



- 480 x 272 color touch display provides instrument status and user control.
- LED indicators for RS-232 interface.
- USB Host interface for optional attachable keypad.
- Can be rack mounted or placed on a bench top or cabinet.

# 804/804A Rear Panel Interfaces



- Four (4) HDMI interfaces. Active simultaneously.
- VGA / Component output for testing HDTV analog inputs.
- CVBS and S-VIDEO outputs for testing HDTV composite and Y/C video inputs.
- (3) BNC component outputs for testing HDTV analog component video inputs.
- (2) Analog audio outputs for testing HDTV analog audio inputs.
- SPDIF/Optical audio input for testing HDTV digital audio outputs (future).
- RS-232 command line interface for controlling 804/804A via with automated test systems.

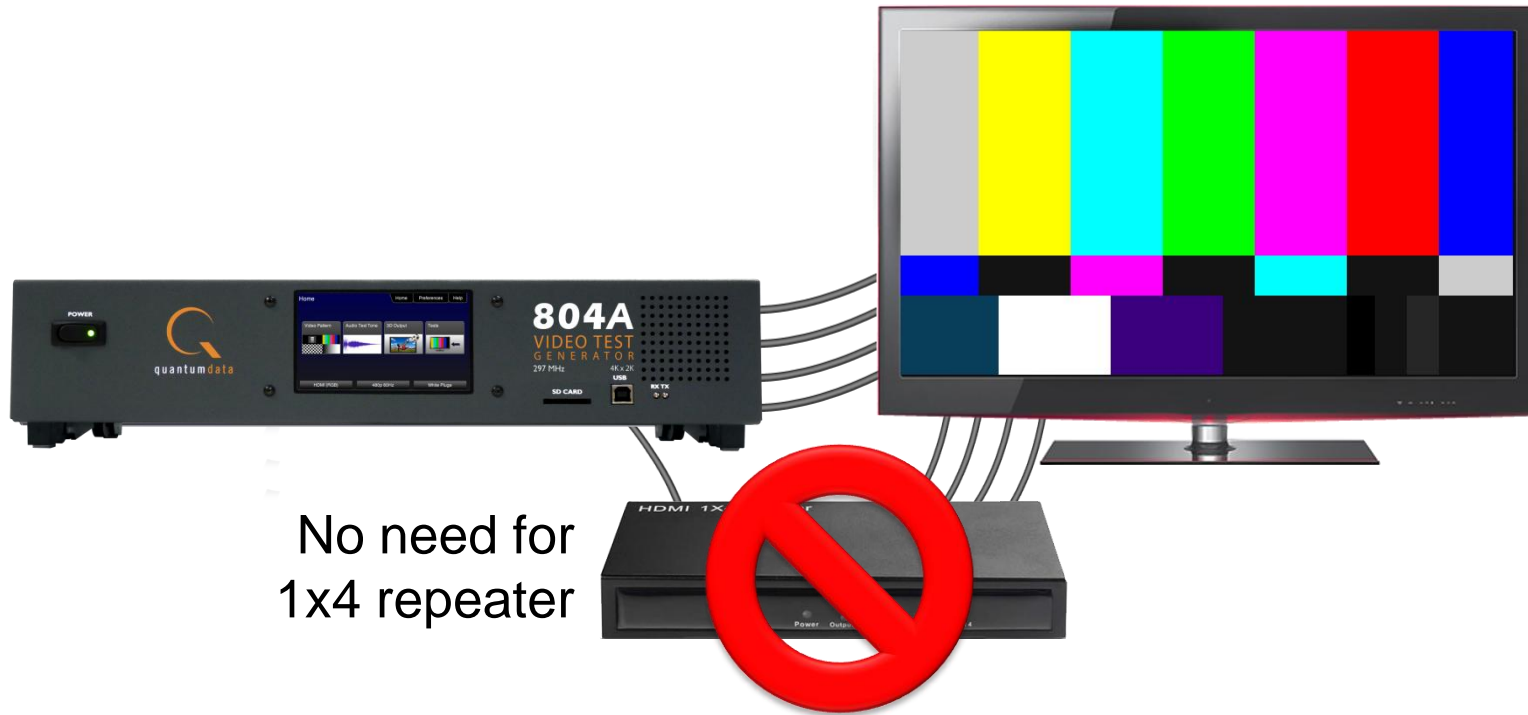


# Mounting Options



- Occupies 2 rack units in a standard 19" relay rack.
- Or place on desk top or in cabinet.

# Four (4) HDMI Outputs



No need for  
1x4 repeater

- All HDMI outputs active simultaneously.
- Fast switching between standard timings and patterns.
- 804/A: Support DeepColor up to 36-bit/pixel (12-bit/component) at pixel rates up to 165MHz (225MHz TMDS clock (e.g. 1080p60)).



# Four (4) HDMI Outputs



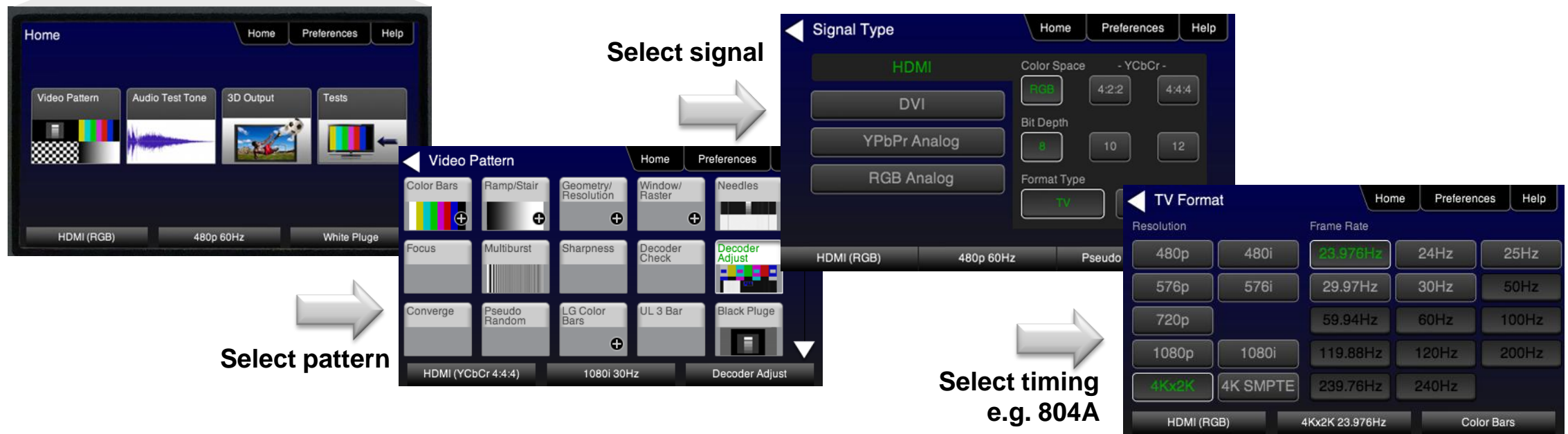
No need for  
1x4 repeater

- Over 35 standard test patterns including 3D test patterns. Add your own bitmap patterns.
- 3D formats—side-by-side, top-and-bottom & frame packing.

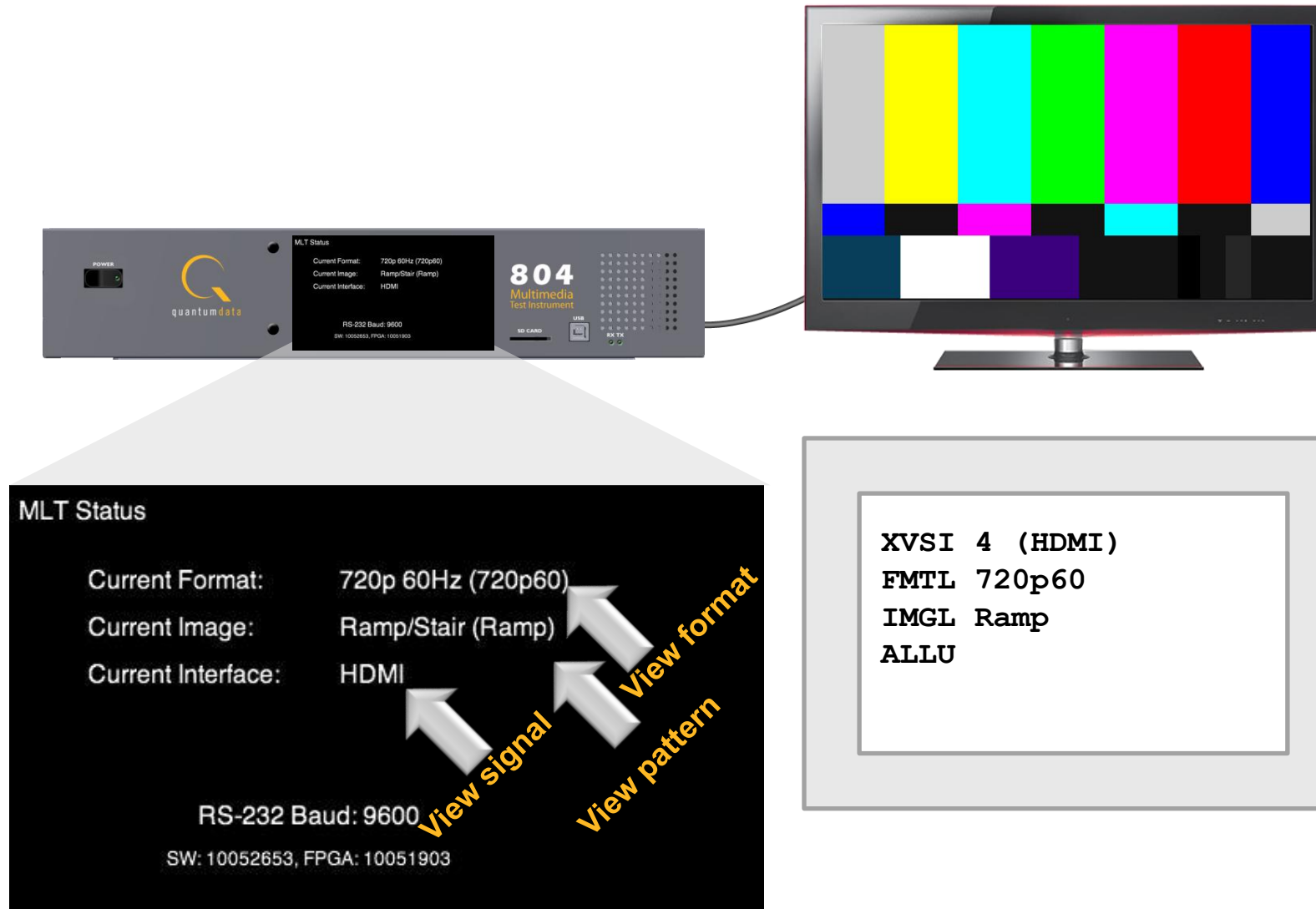
# Touch Screen Operation



- 480 x 272 color touch screen for basic operation.
- Select patterns, output, timings, etc.



# Touch Screen Provides Status for Command Operation



- Status mode for monitoring the output, timings and patterns.
- Display shows status when 804/804A is controlled through command line, keypad or automated test system.
- Command syntax compatible with Quantum Data 802 series test generators.

# Special Protocol Tests



- Run HDCP, EDID and CEC protocol tests.
- Monitor status on 804/804A front panel.



Select test  
e.g. HDCP



Run test  
Monitor status



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