

quantumdata™ 780 Series HDBaseT Remote Cable Tester



Key Features

- **Verify Installed HDBaseT Network Cable** – Test signal quality of main video channel and auxiliary channel from source end of HDBaseT network cable in a commercial or industrial building or office campus.
- **Reduce Callbacks** – Pre-qualify cable infrastructure for transmission of Ultra HD video prior to final installation of video source and display components.
- **Verify patch cables and HDBaseT extenders** – Run loop test on patch cables and extender devices at each end.
- **Save Test Data Report** – The solution can provide a report to record the results of the cabling infrastructure qualification. The reports can be saved onto an SD card for ease of preservation and dissemination to other colleagues.

Teledyne LeCroy quantumdata 780 series test instruments offer a rich set of features that help professional A/V installers verify HDMI and HDBaseT video, audio and protocols. However, one of the problems facing professional video integrators and installers is how to verify network HDBaseT cable infrastructure in commercial, industrial or institutional buildings or office campuses intended to support HD and UHD video. This cable infrastructure is often installed prior to turn up of the video sources and displays at the endpoints.

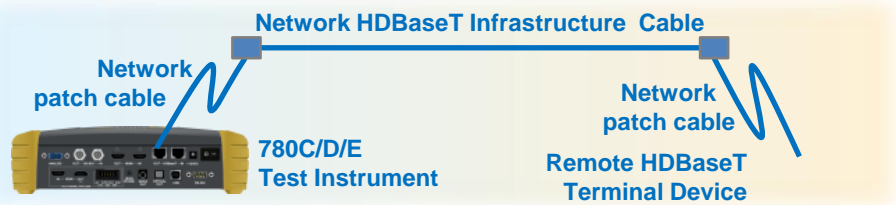
The 780-based solution offered employs an HDBaseT Remote Terminal connected at the far end of an HDBaseT network cable run with the 780C, 780D or 780E instrument at the source end. The 780 instrument can read the data from the far end HDBaseT device to determine the quality of the network cable—main channel and auxiliary channel—and its suitability for transmission of UHD video. The 780 can also independently verify the HDBaseT converter devices and patch cabling at each end.



MEASUREMENTS / SPECIFICATIONS

Verify Installed HDBaseT Cable

The network infrastructure cable is tested using the 780C/D/E instrument on the near end and the new 780 HDBaseT Remote Terminal on the far end as depicted (right).



The remote cable test reports the quality of the cable and its suitability for supporting video up to 300MHz (Ultra HD 4K at 30Hz or 60Hz with 4:2:0).

You can either test all network cable segments end-to-end or you can test the infrastructure cabling in segments and patch cabling separately.

The optional 780 series Report File Creation feature can be used to save the results for record keeping or dissemination to colleagues or contracting firm.



Measurement (Main Channel)

Main Channel Mean Squared Error - MSE	Tests quality of the Main channel (per pair) -20dB and greater: excellent up to 300MHz (green) -15.5dB: good for 225MHz (yellow); acceptable for 300MHz (yellow) -10dB: acceptable for 148.5MHz (yellow); poor for 225MHz (red)
Main Channel Maximum Errors (MaxErr)	0-30: excellent (green) 31-55: good (yellow) 56-64: acceptable (yellow) greater than 64: poor (red)

Measurements (Aux Channel)

Aux Channel Errors Maximum Errors (MaxErr)	Tests quality of the Aux Channel 0-30: excellent (green) 31-55: good (yellow) 56-64: acceptable (yellow) greater than 64: poor (red)
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HDBaseT Remote Terminal Device (P/N 95-00146) (Specs – Functional)

HDBaseT - 780 Compatibility	HDBaseT 1.0; works with 780C, 780D, 780E Instruments
Software	780C, 780D, 780E must have recent software, please contact customer support
Connector	(1) 8P8C (RJ-45) Rx; (1) HDMI Type A Hi-Speed Tx
Video Max Pixel Rate	300 MHz; up to WUXGA, 4K Ultra HD (4K 30Hz or 4K 60Hz w/ 4:2:0 pixel encoding)
Range	70 meters over Cat5e/6/7

HDBaseT Remote Terminal Device (P/N 95-00146) (Specs – Mechanical/Power)

Power Adapter	5V/1.2 amp DC Power Adapter; 5.5 W; AC input: 100-120 VAC, 47-63Hz
LEDs	RJ-45 connector: Orange: blinking = no video detected (low power), solid = video; Green: blinking = HDCP off, solid = HDCP On
Weight	0.5 LBS; 0.23 Kg
Size	Height: 0.88 in. (2.25 cm) Width: 2.2 in. (5.5 cm) Depth: 3.22 in. (8.2 cm)
Environmental	Operating Temp: 32 to 104 (F); 0 to 40 (C)



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