quantumdata[™] 780 Series Handheld Test Instruments Overview of Applications





quantumdata 780 Series

Model 780





780 Handheld Test Instrument – Interfaces / Options





without optional ACA board





780 Rear Edge with optional ACA board



780 Handheld Test Instrument – Interfaces / Options

Interfaces:

- HDMI Tx & Rx ports 165MHz pixel rate.
- VGA output port RGB and component YCbCr up to 80MHz pixel rate.
- Digital audio SPDIF/Optical.

Standard Features:

- 4.3 inch touch screen 480 x 272 resolution.
- Battery-power, convenient size.
- Format and test pattern library, add custom bitmaps.
- Command line control via USB serial.
- Software upgradable.

Options:

- Network Analyzer Test HDMI protocols and timing on source and sink devices.
- Cable Test Test HDMI cables and distribution networks.
- Test pattern packs ISF, THX China Resolution
- Auxiliary Channel Analyzer (emulation) Monitor HDCP, EDID transactions, hot plug events and CEC messages with source or sink DUT.
- Auxiliary Channel Analyzer (passive) Monitor HDCP, EDID transactions, hot plug events and CEC messages between multiple source or sink DUTs.



quantumdata 780 Series

Model 780AH





780AH Handheld Test Instrument – Interfaces / Options





without optional ACA board



780AH Front Edge



780AH Rear Edge with optional ACA board



780AH Handheld Test Instrument – Interfaces / Options

Interfaces:

- HDMI Tx & Rx ports 300MHz pixel rate.
 Note: Supports HDCP 2.2 testing.
- VGA output port RGB and component YCbCr up to 80MHz pixel rate.
- Digital audio SPDIF/Optical.

Standard Features:

- 4.3 inch touch screen 480 x 272 resolution.
- Battery-power, convenient size.
- Format and test pattern library, add custom bitmaps.
- Headphone jack and speakers.
- Command line control via USB serial.
- Software upgradable.

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Options:

- Network Analyzer Test HDMI protocols and timing on source and sink devices.
- Cable Test Test HDMI cables and HDMI / HDBaseT distribution networks.
- Test pattern packs ISF, THX China Resolution.
- Auxiliary Channel Analyzer (emulation) Monitor HDCP, EDID transactions, hot plug events and CEC messages with source or sink DUT.
- Auxiliary Channel Analyzer (passive ACA board) – Monitor HDCP, EDID transactions, hot plug events and CEC messages between multiple source or sink DUTs.

quantumdata 780 Series

Model 780BH





780BH Video Generator / Protocol Analyzer – Interfaces / Options



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780BH Video Generator / Protocol Analyzer – Interfaces / Options

Interfaces:

- HDMI Tx & Rx ports 300MHz pixel rate.
 Note: Supports HDCP 2.2 testing.
- VGA output port RGB and component YCbCr up to 80MHz pixel rate.
- Digital audio SPDIF/Optical.

Standard Features:

- 7 inch touch screen 800 x 480 resolution.
- Battery-power, convenient size.
- Format and test pattern library, add custom bitmaps.
- Real time status bar.
- Headphone jack and speakers.
- Command line control via RS-232 or USB serial.
- Software upgradable.

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Options:

- Cable Test Test HDMI cables and HDMI / HDBaseT distribution networks.
- Test pattern packs ISF, THX China Resolution.
- Auxiliary Channel Analyzer (emulation) Monitor HDCP, EDID transactions, hot plug events and CEC messages with source or sink DUT.
- Auxiliary Channel Analyzer (passive ACA board) – Monitor HDCP, EDID transactions, hot plug events and CEC messages between multiple source or sink DUTs.

quantumdata 780 Series

Model 780C





780C Video Generator / Protocol Analyzer – Interfaces / Options



780C Top

780C Rear Edge



780C Video Generator / Protocol Analyzer – Interfaces / Options

Interfaces:

- HDMI Tx & Rx ports 300MHz pixel rate.
- HDBaseT Tx & Rx ports 300MHz pixel rate.
- 3G-SDI Tx & Rx ports 2.97Gb/s data rate.
- VGA output port RGB and YCbCr up to 80MHz pixel rate.
- Digital audio SPDIF/Optical.

Standard Features:

- 7 inch touch screen 800 x 480 resolution.
 Convenient size.
- Format and test pattern library, add custom bitmaps.
- Real time status bar.
- Headphone jack and speakers.
- Command line control via RS-232 or USB serial.
- Software upgradable.

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Options:

- Cable Test Test HDMI cables and distribution networks.
- Test pattern packs ISF, THX China Resolution.
- Auxiliary Channel Analyzer (passive & emulation) – Monitor HDCP, EDID transactions, hot plug events and CEC messages between source and sink DUTs.

quantumdata 780 Series

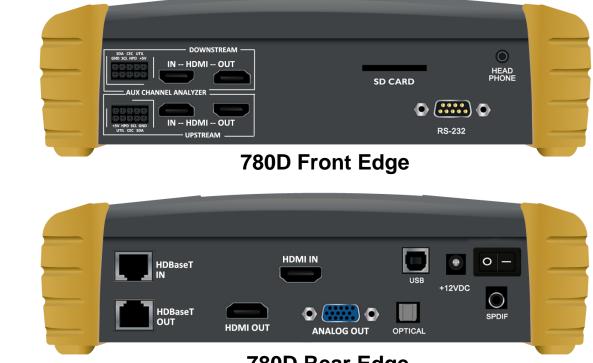
Model 780D





780D Video Generator / Protocol Analyzer – Interfaces/Options





780D Rear Edge



780D Video Generator / Protocol Analyzer – Interfaces/Options

Interfaces:

- HDMI Tx & Rx ports 600MHz pixel rate.
 Note: Supports HDCP 2.2 testing.
- HDBaseT Tx & Rx ports 300MHz pixel rate.
- VGA output port RGB and YCbCr up to 80MHz pixel rate.
- Digital audio SPDIF/Optical.

Standard Features:

- 7 inch touch screen 800 x 480 resolution.
 Convenient size.
- Format and test pattern library, add custom bitmaps.
- Real time status bar.
- Headphone jack and speakers.
- Command line control via RS-232 or USB serial.
- Software upgradable.

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Options:

- Cable Test Test HDMI cables and distribution networks.
- Test pattern packs ISF, THX China Resolution.
- Auxiliary Channel Analyzer (passive & emulation) – Monitor HDCP, EDID transactions, hot plug events and CEC messages between source and sink DUTs.

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Model 780E





780E Video Generator / Protocol Analyzer – Interfaces/Options

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N YOOGAAAD Axeessi	Reveni HDM 3D Sweber AVMUTE da rikes <u>3D Fours</u> Doby 5.1 p Pocking Doby 5.1 p Memb Memb Video Generato for HDMI, Dis	Ena HDCP Duada din au	Analyzer	
	780E Top			



780E Rear Edge

HDMI OUT

USB +12VDC

DP OUT

OPTICAL

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SPDIF OUT

HDMI IN

HDBaseT

Ουτ

DP IN



780E Video Generator / Protocol Analyzer – Interfaces/Options

Interfaces:

- HDMI Tx & Rx ports 600MHz pixel rate.
 Note: Supports HDCP 2.2 testing.
- HDBaseT Tx & Rx ports 300MHz pixel rate.
- DisplayPort Tx & Rx ports 5.4 Gb/s link rate; 1, 2, 4 lanes.
 Note: Supports HDCP 2.2 testing.
- Digital audio SPDIF/Optical.

Standard Features:

- 7 inch touch screen 800 x 480 resolution.
 Convenient size.
- Format and test pattern library, add custom bitmaps.
- Real time status bar.
- Headphone jack and speakers.
- Command line control via RS-232 or USB serial.
- Software upgradable.

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Options:

- Cable Test Test HDMI cables and distribution networks.
- Test pattern packs ISF, THX China Resolution.
- Auxiliary Channel Analyzer (passive & emulation) – Monitor HDCP, EDID transactions, hot plug events and CEC messages between source and sink DUTs.

Applications - HDMI



780 Sample Application – HDMI Source Testing

- HDMI Source Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Verify video and timing and video parameters of an HDMI source device.

HDMI cable

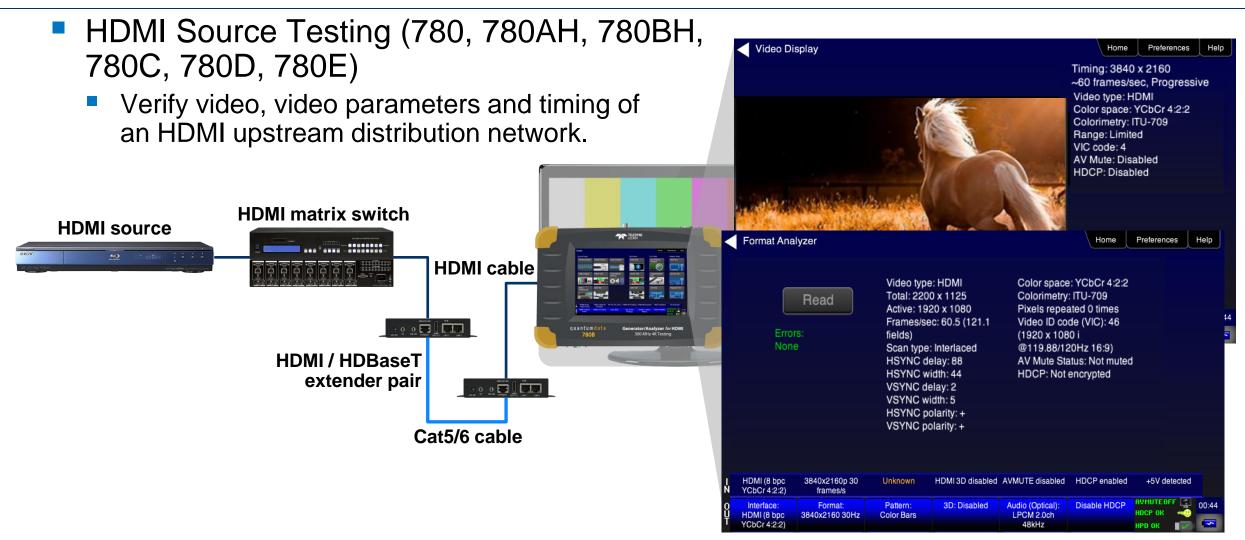


	Video Di	isplay				Home Timing: 3840 ~60 frames/s Video type: H Color space: Colorimetry: Range: Limit VIC code: 4 AV Mute: Dis HDCP: Disat	sec, Progress IDMI YCbCr 4:2:2 ITU-709 ed abled	ive	
Format Analyzer Read Errors: None			Frames/s fields)	00 x 1125 20 x 1080 ec: 60.5 (121.1 e: Interlaced lelay: 88 vidth: 44 elay: 2 vidth: 5 iolarity: +	Home Preferences Color space: YCbCr 4:2:2 Colorimetry: ITU-709 Pixels repeated 0 times Video ID code (VIC): 46 (1920 x 1080 i @119.88/120Hz 16:9) AV Mute Status: Not muted HDCP: Not encrypted				
- N	HDMI (8 bpc YCbCr 4:2:2)	3840x2160p 30 frames/s	Unknown	HDMI 3D disabled	AVMUTE disabled	HDCP enabled	+5V detected		
Ŷ	Interface: HDMI (8 bpc YCbCr 4:2:2)	Format: 3840x2160 30Hz	Pattern: Color Bars	3D: Disabled	Audio (Optical): LPCM 2.0ch 48kHz	Disable HDCP	AVMUTEOFF 😭 HDCP OK 🔫 HPD OK ा	00:44	



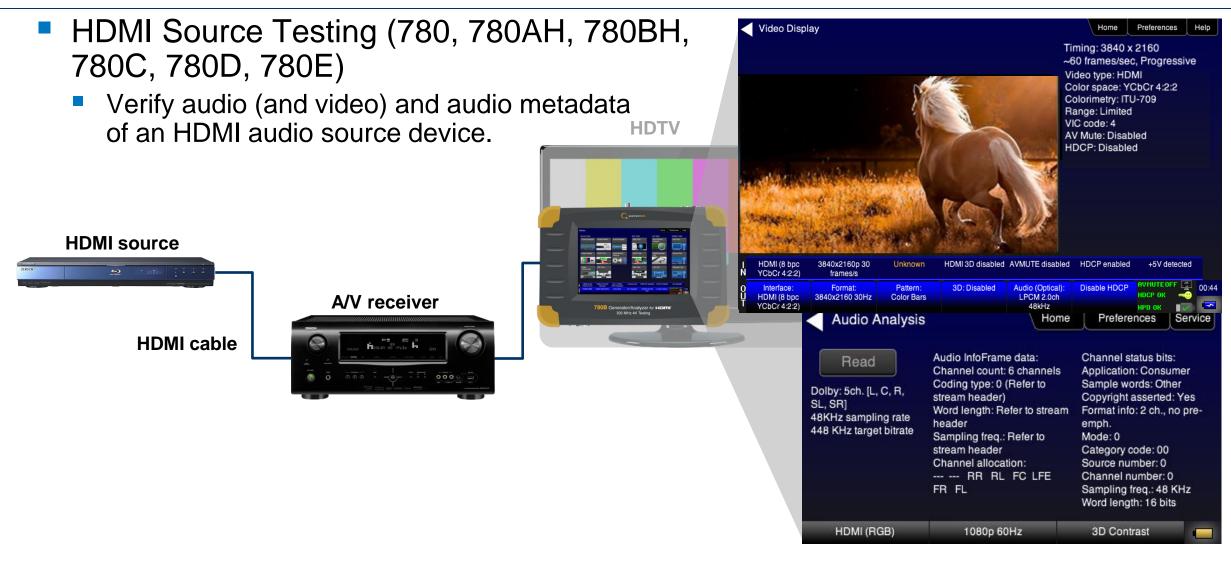
HDMI source

780 Sample Application – HDMI Source Testing





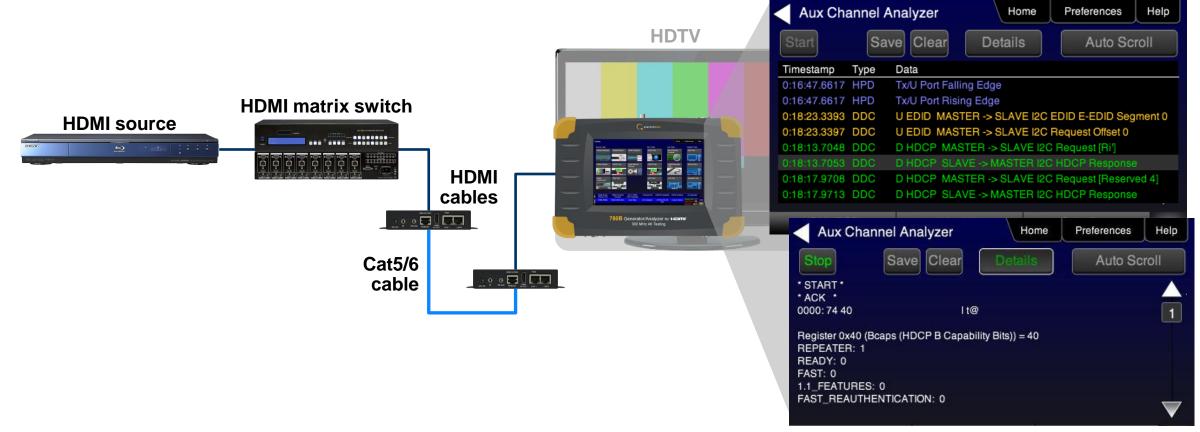
780 Sample Application – HDMI Source Testing





780 Sample Application – HDMI Distribution Network

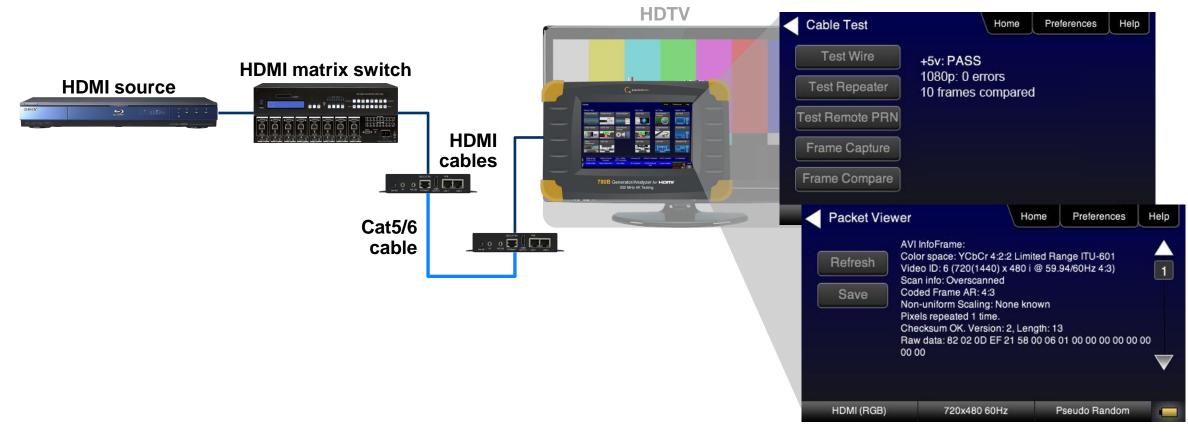
- HDMI Source Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Monitor DDC (HDCP & EDID) and hot plug events of an HDMI source device or upstream distribution network.





780 Sample Application – HDMI Distribution Network

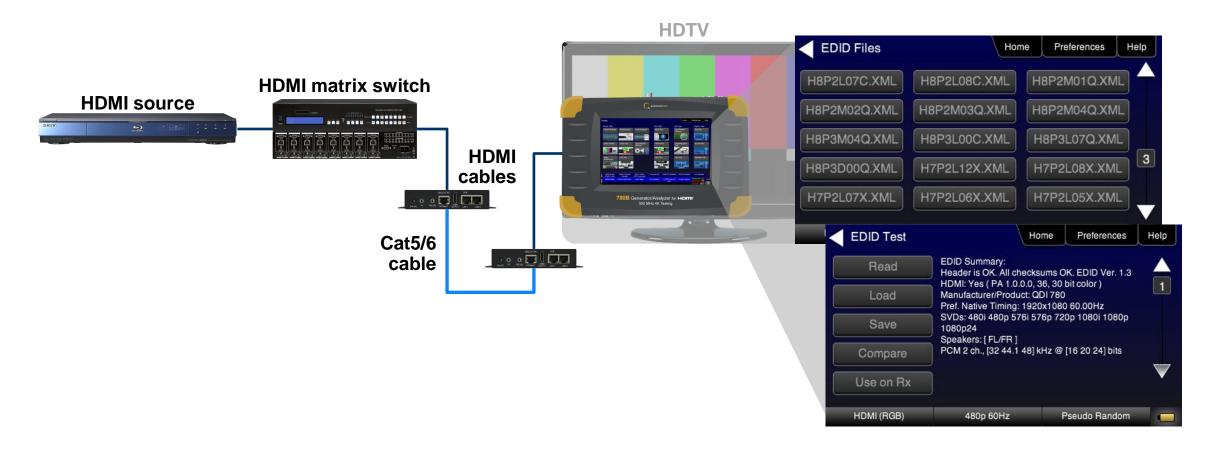
- HDMI Source Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Check for pixel errors and view metadata packets on an upstream HDMI / HDBaseT distribution network.





780 Sample Application – HDMI Network EDID Test

- HDMI Source Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Verify HDMI source or distribution network's handling of various HDMI EDIDs.

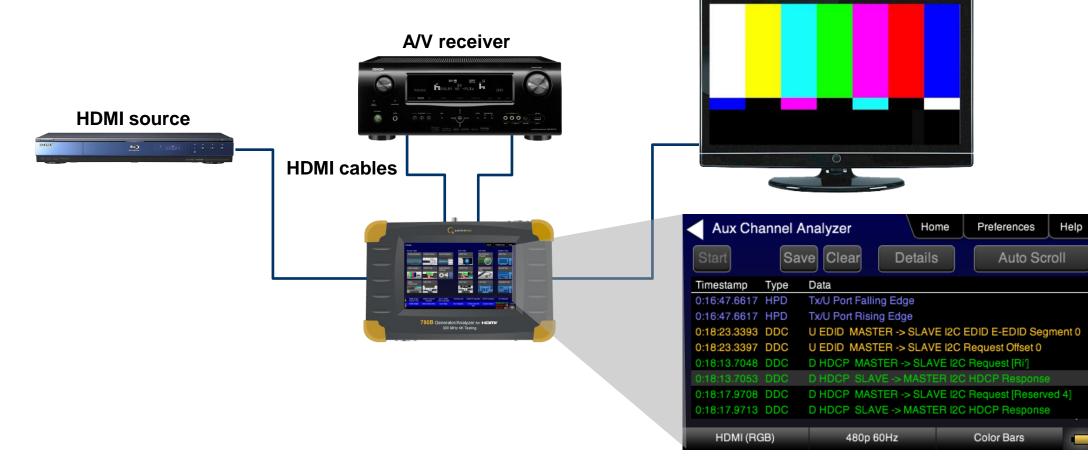




780 Sample Application – HDMI Network Testing

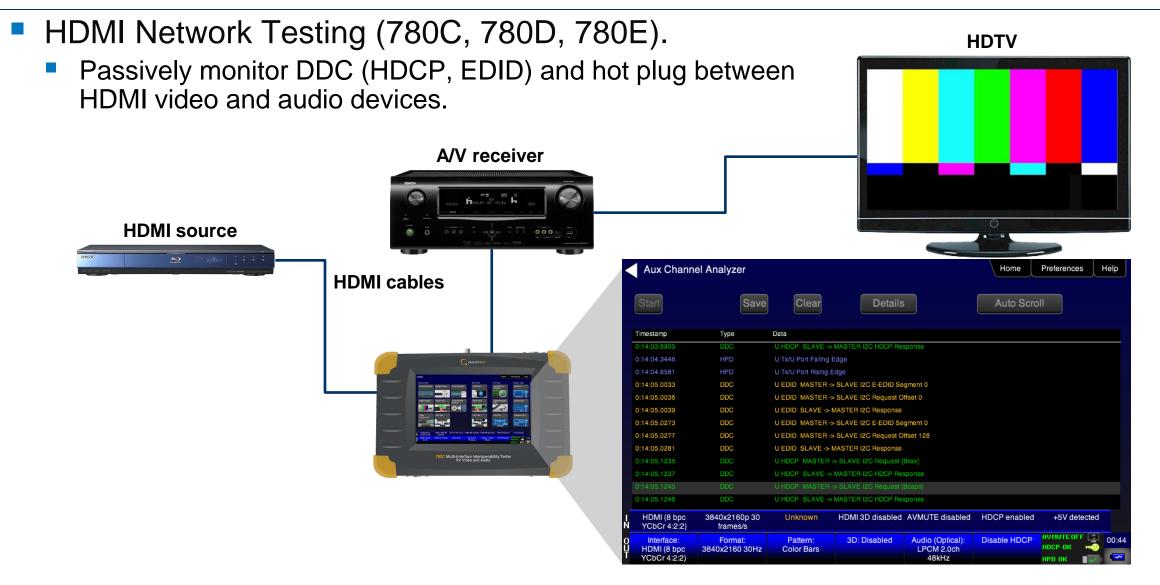
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- HDMI Network Testing (780, 780AH, 780BH, 780D, 780E)
 - Passively monitor DDC (HDCP, EDID) and hot plug across multiple HDMI video and audio devices.



HDTV

780 Sample Application – HDMI Network Testing





- HDMI Sink Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Basic video functional test of an HDMI sink device.

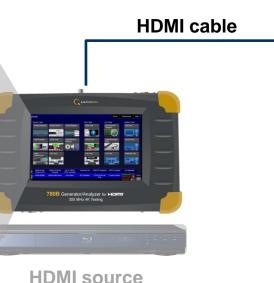
ervwhere**vou**look

Supports UHD 4K formats & HDMI 2.0 4:2:0 pixel encoding (780AH, 780BH, 780C, 780D, 780E).

TV Format					Home	Preferenc	es Help					JItra-HD 4K TV
16:9 Formats	4	3 Formats		Frame R	ate				ŀ	IDMI cable		
480p	480i	720x480p	720x480	23.97	76Hz 24	Hz	25Hz					
576p	576i	720x576p	720x576	29.9	7Hz 30	Hz	50Hz					
720p	64	4:27 ("21:9") Formats		59.9	4Hz 60	Hz	100Hz		C contradate			
1080p	1080i	1280x720p	1680x720	p 119.8	38Hz 120	0Hz	200Hz	New York Water Party of the Par				
2160p	ĺ	1920x1080p	2560x1080)p 239.7	'6Hz 240	0Hz				_		
	ĺ	3840x2160p							vering (C.) 2000. University Address Address of Paralam of Parama Market Sectors (C.) 2000. (C.) 20			0
	2	56:135 Formats							0B Generator/Analyzer /or Hitamr 300 MHz 4K Testing		•	
		4096x2160p						210)287	20 00	· · · ·		
HDMI (8 bpc RGB)	720x480p 60 frames/s	VIC 2: No errors	HDMI 3D disabled	AVMUTE disabled	HDCP disabled		etected	HD	MI source			
Interface: HDMI (8 bpc RGB)	Format: 720x480 60Hz	Pattern: Pseudo Random	3D: Disabled	Audio (Optical): LPCM 2.0ch 48kHz	Enable HDCP	AVMUTEO NO HDCP HPD OK	00:32					

- HDMI Sink Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Basic video functional test of an HDMI sink device.
 - Provides library of standard test patterns.









780 Sample Application – HDMI Sink Testing with "HDR Lab"

HDMI High Dynamic Range (HDR) Sink Testing with "HDR Lab" (780E)

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- Verify an Ultra HD TVs HDR capabilities.
- Use "HDR Lab" test images and test patterns.
- Test for peak brightness, native contrast, average brightness level, clipping and color gamut.



Ultra-HD 4K TV

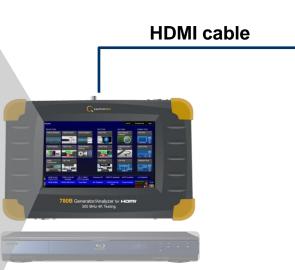


780 Sample Application – HDMI Sink Testing with HDR Dolby Vision

- HDMI High Dynamic Range (HDR) Sink Testing with Dolby Vision (780E)
 - Dolby Vision test image verifies embedded HDR metadata.

HDR Tests				Home	Reports Menu	Preferences	Help
EDI	D Test	Dolby Visio	n support detec	ted: Yes			
Toggle Dolt	by Vision VSIF		Metadata Data Metadata Data	Block detected:	Yes		
Dolby Vis	sion Pattern	EOTFs: Tra	d gamma-SDR	luminance, SMF s: Static Metadat			
HDRL	_ab Menu	Desired Co	ntent Max Lumi	nance: Not prese le-average Lumir	ent	esent	
				nance: Not prese			
HDMI/DVI: No signal	No TMDS clock	Cannot be analyzed	Not capable of HDMI 3D	No GCP packets received	Not capable of HDCP		

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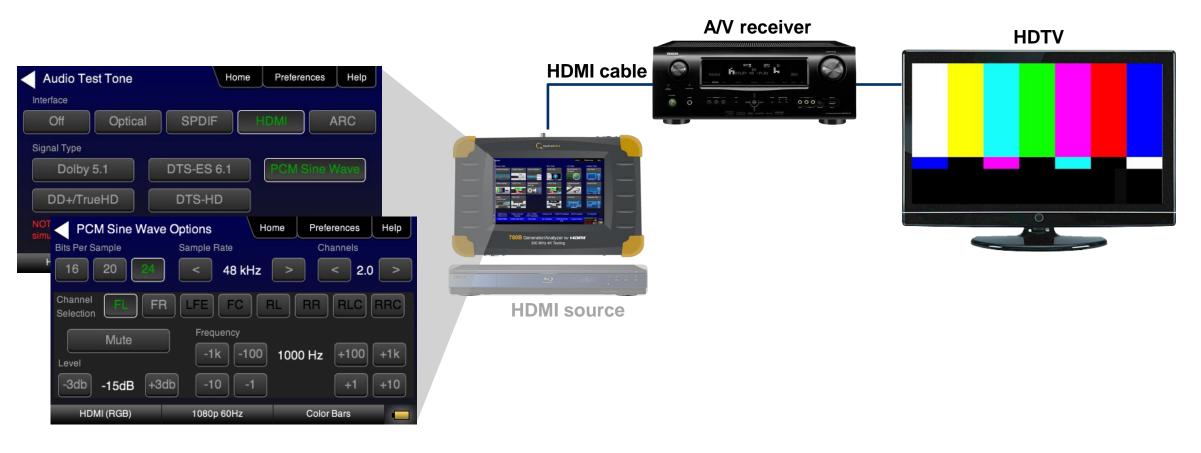


Ultra-HD 4K TV



HDMI source

- HDMI Sink Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Audio functional test of an HDMI audio rendering sink device.
 - Supports uncompressed LPCM and Dolby or DTS compressed formats.





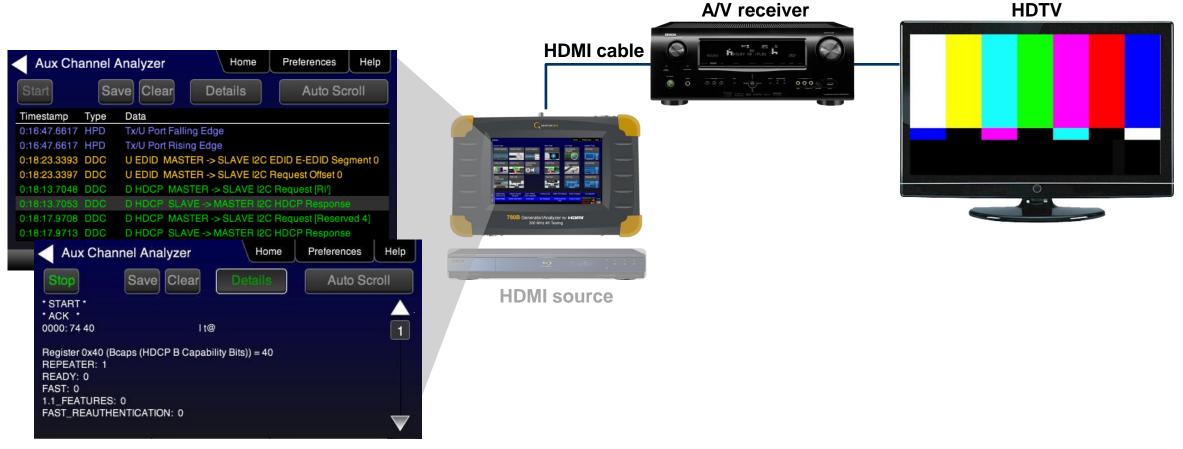
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- HDMI Sink Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Basic protocol functional test of an HDMI sink device.
 - Test HDCP (780AH, 780BH, 780D & 780E support HDCP 2.2) authentication and verify EDID.
 A/V receiver



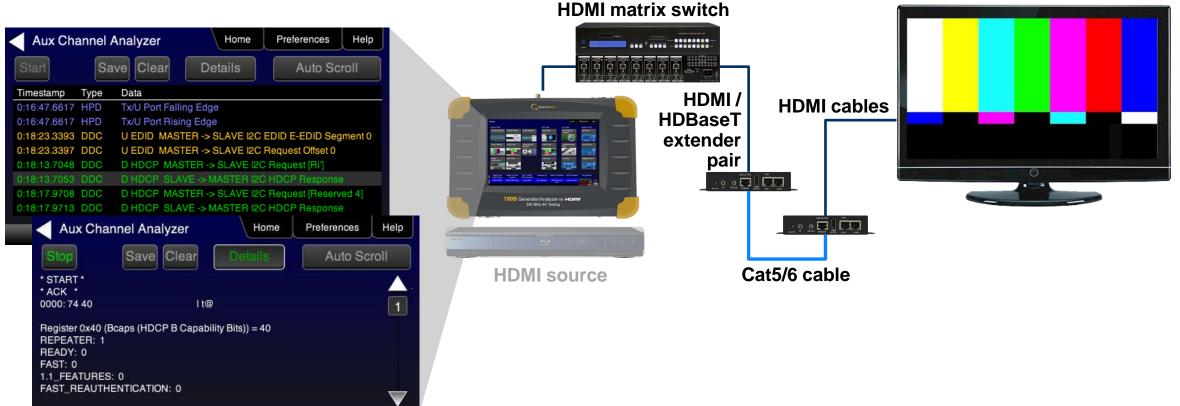
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- HDMI Sink Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Monitor DDC (HDCP & EDID) and hot plug events with an HDMI sink device.



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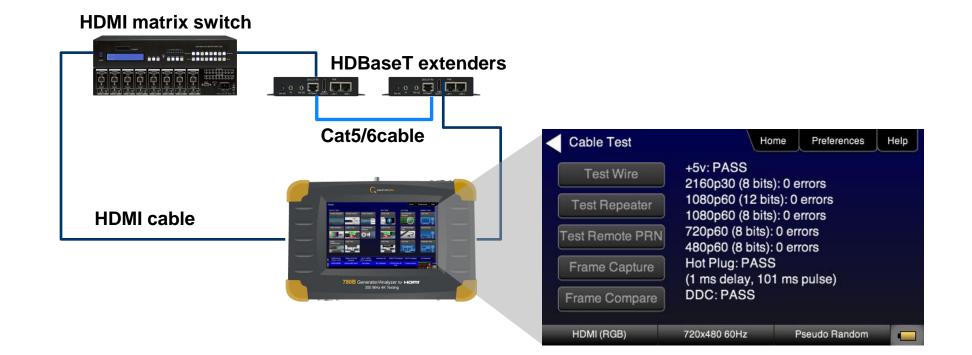
- HDMI Sink Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Monitor DDC (HDCP & EDID) and hot plug events with an HDMI sink device or downstream distribution network.



HDTV

780 Sample Application – HDMI Distribution Network

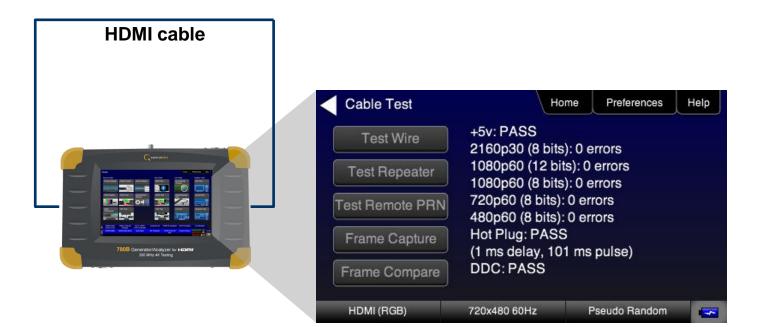
- HDMI Distribution Network Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Check for pixel errors on an HDMI / HDBaseT distribution network.





780 Sample Application – HDMI Cable Test

- HDMI Cable Testing (780, 780AH, 780BH, 780C, 780D, 780E)
 - Check for pixel errors on an HDMI cable.





Applications - HDBaseT



- HDBaseT Sink Testing (780C, 780D, 780E)
 - Basic video functional test of an HDBaseT sink device.
 - Supports 4K formats.

Interface: HDBaseT (8 bpc	Format: 3840x2160 30Hz	Pattern:	3D: Disabled	Audio (HDMI): LPCM 2.0ch	Enable HDC	AVMUTEO	FF 🚔 17:51
HDBaseT (8 bpc RGB)	3840x2160p 30.00 frames/s	Unknown	HDMI 3D disabled	AVMUTE disabled	HDCP disable		etected
		4096x2160p					
	2	56:135 Formats	n				
		3840x2160p					
2160p		1920x1080p	2560x108	0p 239.	76Hz 24	10Hz	
1080p	1080i	1280x720p	1680x720)p 119.	88Hz 12	20Hz	200Hz
720p	6	4:27 ("21:9") Formats		59.9	94Hz 6	0Hz	100Hz
576p	576i	720x576p	720x576	i 29.9	7Hz 3	0Hz	50Hz
480p	480i	720x480p	720x480)i 23.9	76Hz 2	4Hz	25Hz
16:9 Formats	4	3 Formats		Frame I	Rate		



HDBaseT Projector



- HDBaseT Sink Testing (780C, 780D, 780E)
 - Basic video functional test of an HDBaseT sink device.
 - Provides library of standard test patterns.



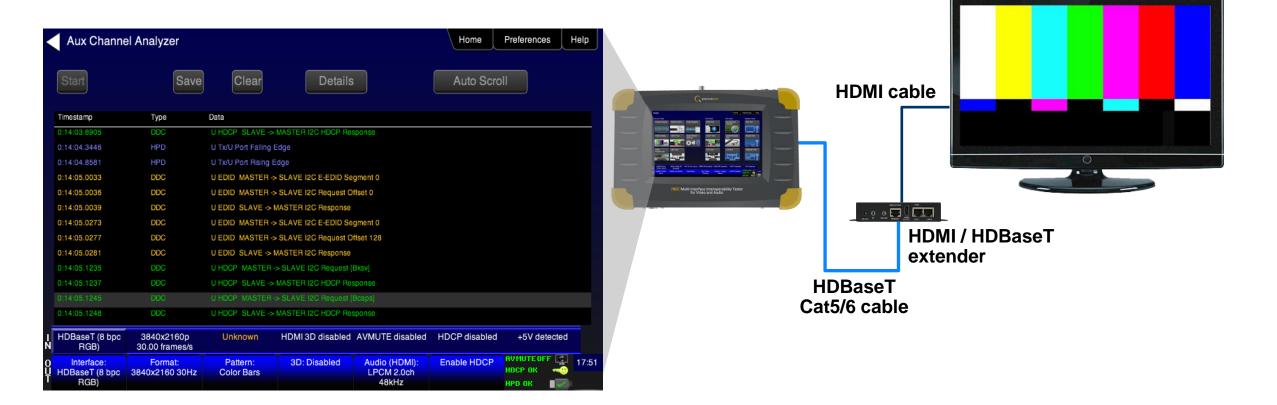
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- HDBaseT Device Testing (780C, 780D, 780E)
 - Monitor DDC (HDCP & EDID) and hot plug events with an HDBaseT device connected to an HDMI sink.



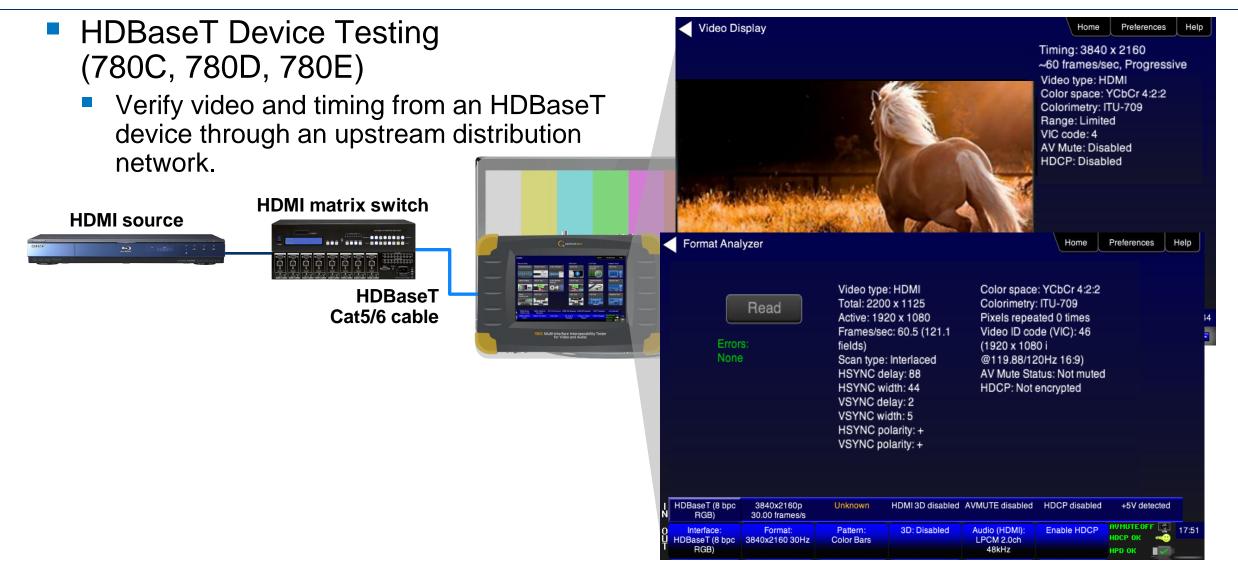


- HDBaseT Device Testing (780C, 780D, 780E)
 - Monitor DDC (HDCP & EDID) and hot plug events with an HDBaseT device connected to an HDMI sink.



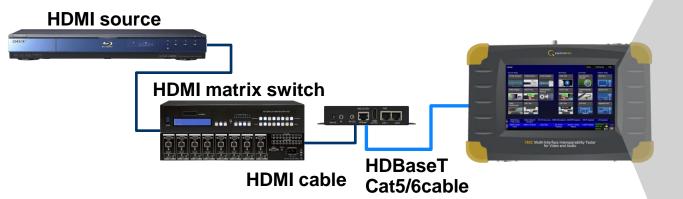
HDTV

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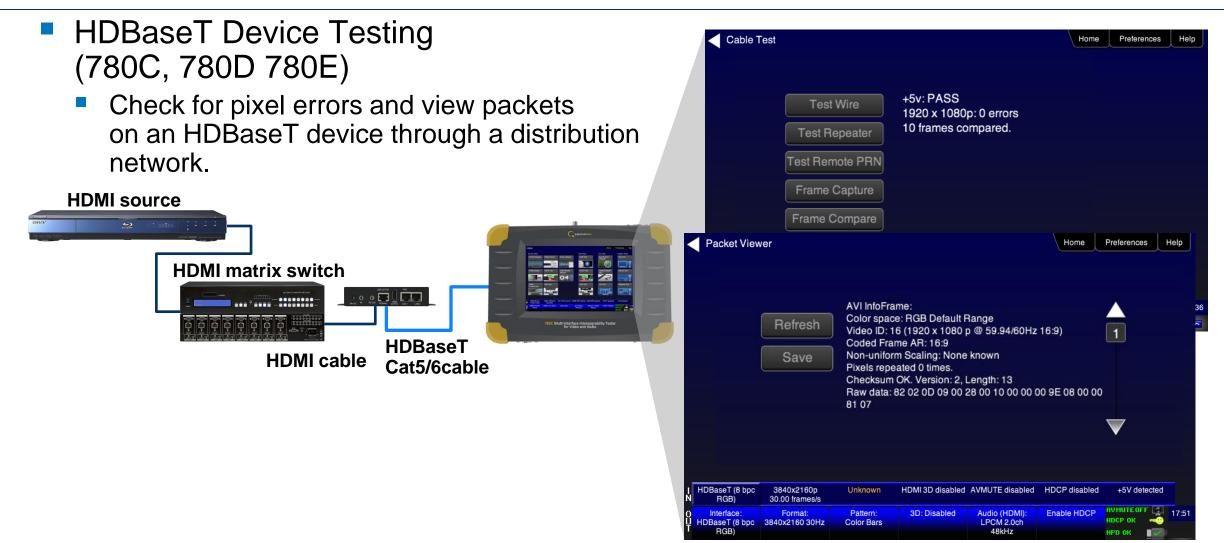


- HDBaseT Device Testing (780C, 780D, 780E)
 - Verifying HDCP authentication on an HDBaseT device through an upstream distribution network.



Everywhere**you**look"

🚽 Aux Chann	el Analyzer				Home	Preferences Hei
Start	Save	Clear	Details	•	Auto Scro	
Timestamp	Туре	Data				
0:14:03.8905	DDC	U HDCP_SLAVE ->	MASTER I2C HDCP Re	sponse		
0:14:04.3446	HPD	U Tx/U Port Falling	Edge			
0:14:04.8581	HPD	U Tx/U Port Rising I	Edge			
0:14:05.0033	DDC	U EDID MASTER -	> SLAVE I2C E-EDID Se	gment 0		
0:14:05.0036	DDC	U EDID MASTER -	> SLAVE I2C Request O	Iffset 0		
0:14:05.0039	DDC	U EDID SLAVE ->	MASTER I2C Response			
0:14:05.0273	DDC	U EDID MASTER -	> SLAVE I2C E-EDID Se	gment 0		
0:14:05.0277	DDC	U EDID MASTER -	> SLAVE I2C Request O	Iffset 128		
0:14:05.0281	DDC	U EDID SLAVE ->	MASTER I2C Response			
0:14:05.1235	DDC	U HDCP MASTER	-> SLAVE I2C Request [[Bksv]		
0:14:05.1237	DDC	U HDCP_SLAVE >	MASTER I2C HDCP Re	sponse		
0:14:05.1245	DDC	U HDCP MASTER		[Bcaps]		
0:14:05.1248	DDC	U HDCP_SLAVE ->	MASTER I2C HDCP Re	sponse		
HDBaseT (8 bpc RGB)	3840x2160p 30.00 frames/s	Unknown	HDMI 3D disabled	AVMUTE disabled	HDCP disabled	+5V detected
Interface: HDBaseT (8 bpc RGB)	Format: 3840x2160 30Hz	Pattern: Color Bars	3D: Disabled	Audio (HDMI): LPCM 2.0ch 48kHz	Enable HDCP	AVMUTEOFF 🚉 1 HDCP OK 🔫 HPD OK 💽





Sample Applications – HDBaseT Cat5/6 Remote Cable Test

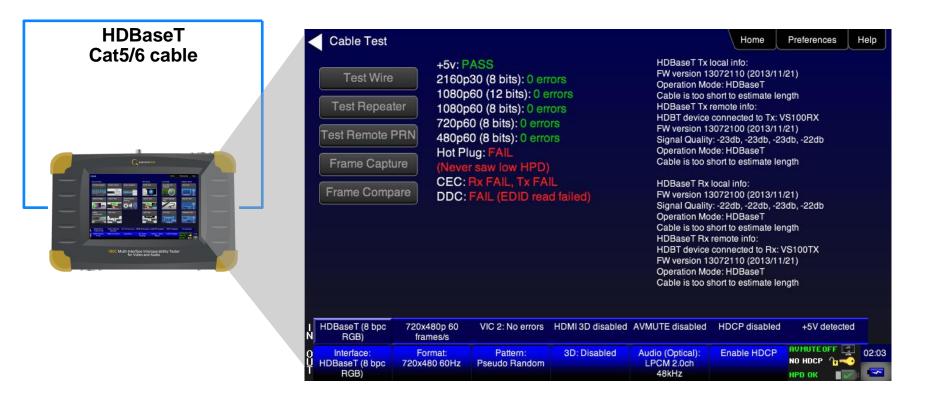
- HDBaseT Remote Cable Testing (780C, 780D, 780E)
 - Check quality of signal from near end to a far end HDBaseT Remote Terminal.
 - Solution checks main video channel and aux channel.





Sample Applications – HDBaseT Cat5/6 Cable Test

- HDBaseT Cable Testing (780C, 780D, 780E)
 - Check for pixel errors on an HDBaseT Cat5/6 cable.





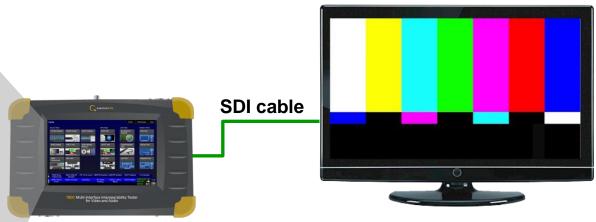
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Applications - SDI



- SDI Sink Device Testing (780C)
 - Test video on an SDI display device.

TV Forma	t					Home	Preference	s Help
6:9 Formats		4:3 Formats			Frame Rate			
480p	480i	720x480p	720x480	Di	23.976Hz	24	Ηz	25Hz
576p	576i	720x576p	720x576	3i	29.97Hz	301	lz	50Hz
720p		64:27 ("21:9") Formats			59.94Hz	601	Ηz	100Hz
1080p	1080i	1280x720p	1680x720	0p	119.88Hz	120	Hz	200Hz
21.60p		1920x1080p	2560x108	30p	239.76Hz	240	Hz	
		3840x2160p						
		256:135 Formats						
		4096x2160p						
SDI: HD-SDI	1280x720p 6 frames/s		Errors: EAV1, SAV1, LNUM1,					
Interface: HD-SDI	Format: 1280x720 6		3D: Disabled	Audio (H		ole HDCP	AVMUTEOF	h ⊸ 00.01
				48k	Ηz			X

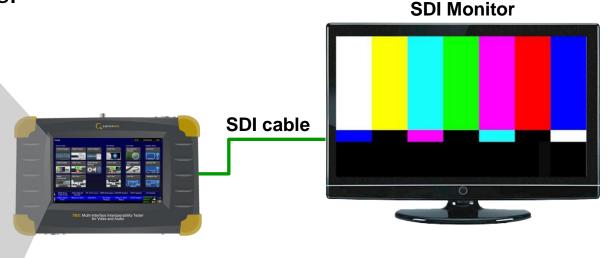


SDI Monitor



- SDI Sink Device Testing (780C)
 - Test video on an SDI display device.
 - Supports library of standard test patterns.



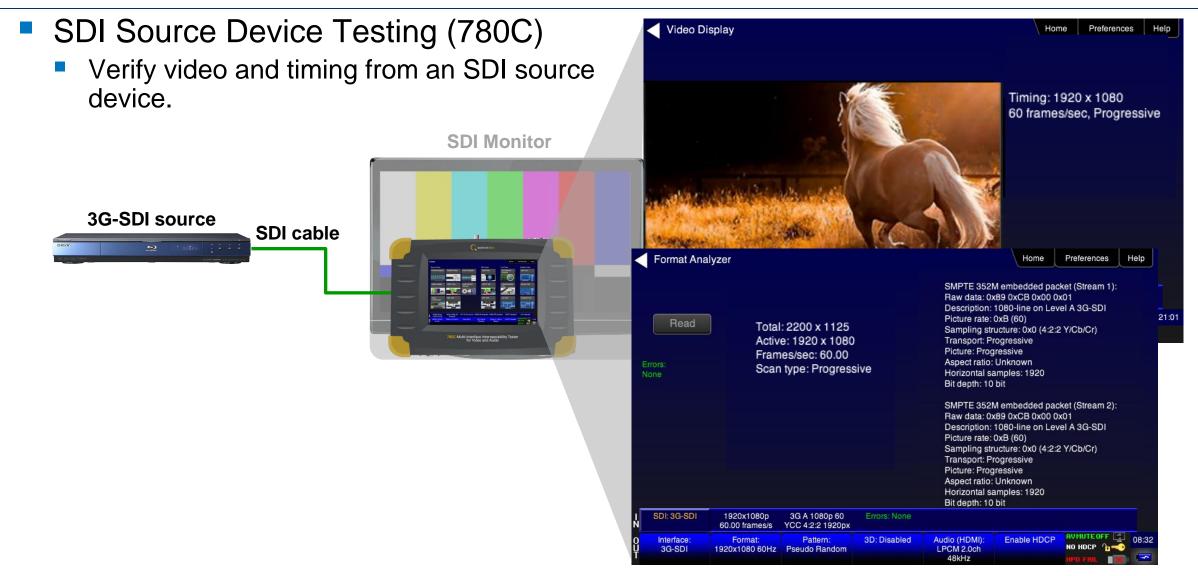




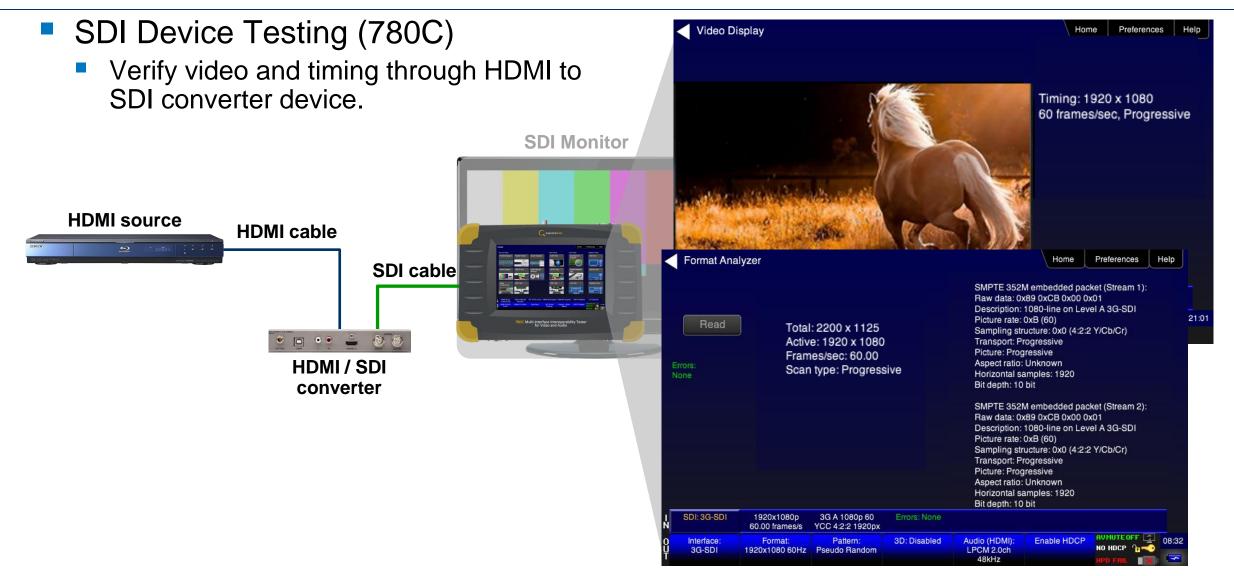
- SDI Device Testing (780C)
 - Test video on an HDMI to SDI converter device.



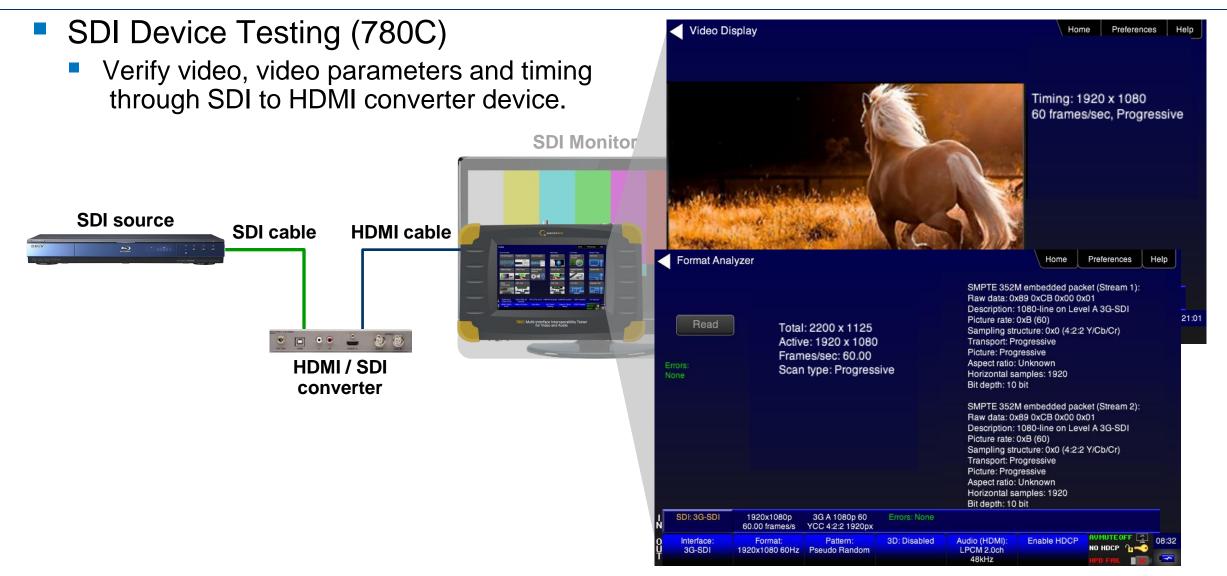














- SDI Device Testing (780C)
 - Check for pixel errors on HDMI to SDI converter.





- SDI Device Testing (780C)
 - Check for pixel errors on SDI to HDMI converter.





Sample Applications – 3G-SDI Cable Test

- SDI Cable Testing (780C)
 - Check for pixel errors on an 3G-SDI cable.





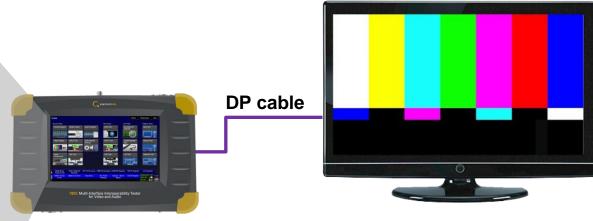
Applications - DisplayPort



- DisplayPort Sink Device Testing (780E)
 - Test video on an DisplayPort display device.



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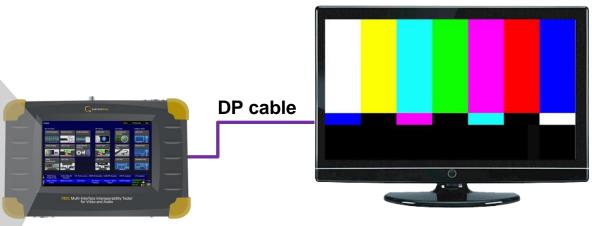


DP Monitor

- DisplayPort Sink Device Testing (780E)
 - Test video on an DisplayPort display device.
 - Supports library of standard test patterns.



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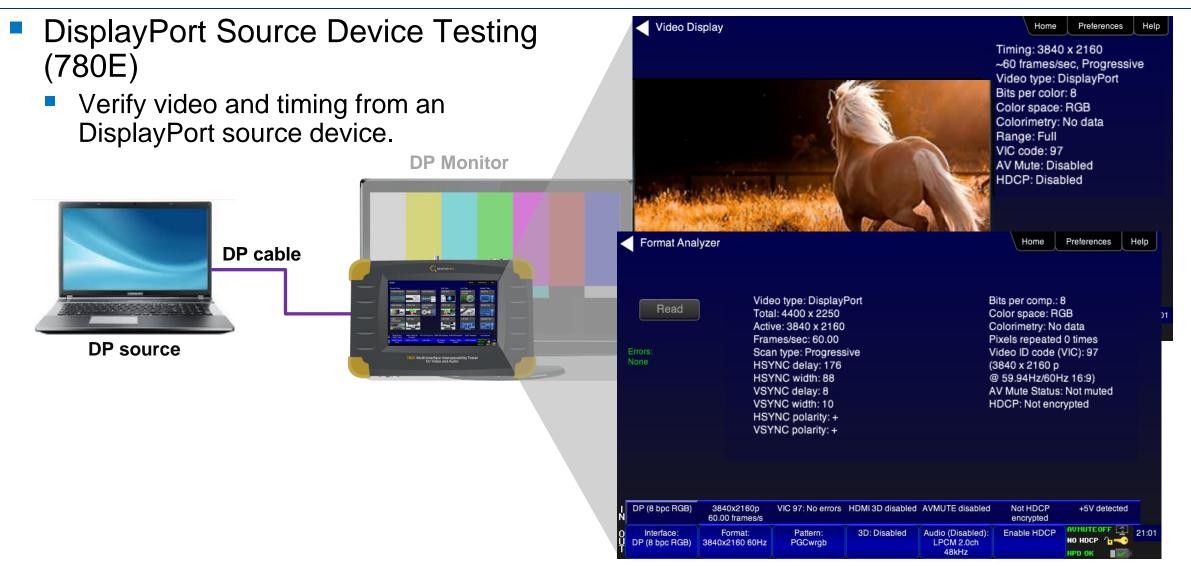
DP Monitor

- DisplayPort Device Testing (780E)
 - Test video on an HDMI to DisplayPort converter device.

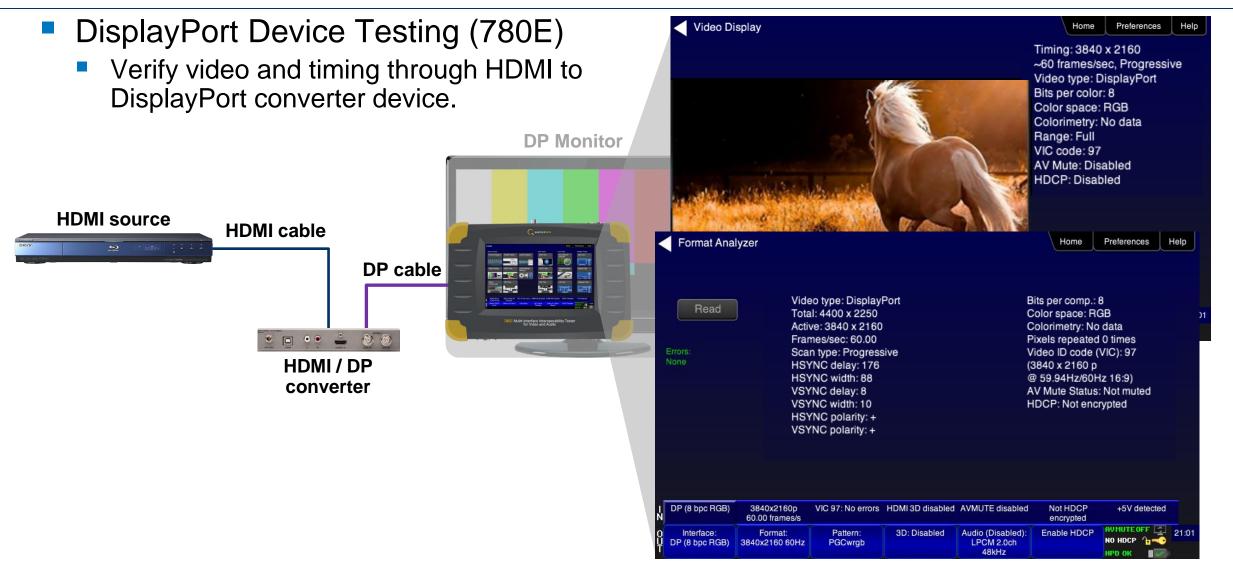


DP Monitor

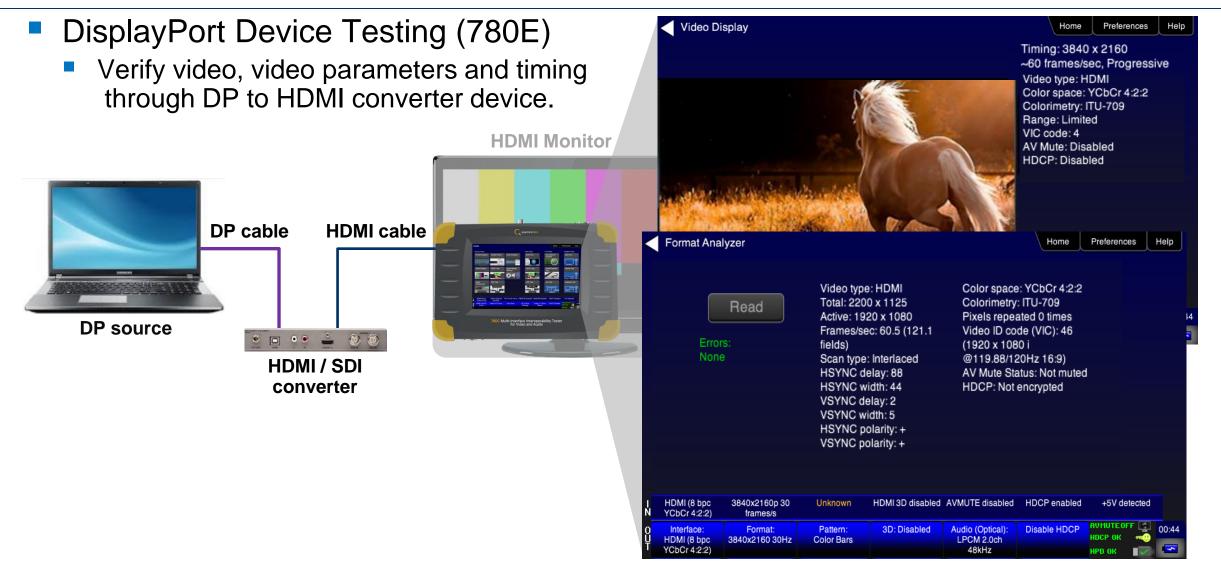














- DisplayPort Device Testing (780E)
 - Check for pixel errors on HDMI to DisplayPort converter.

			Classe root								
	-	DP Monitor	Test Wire	+5v: F	PASS		Link training info: HPD detected, Link trained 4 lanes, 5.40 Gbps per lane				
	1		Test Repea	7637	x 1280p: 0 errol mes compared.	rs	Lane 0: Swing leve - Clock recovery =	el 0, pre-emphas	is level 0		
			Test Remote	PRN			- Symbol lock = 1 (- Channel EQ = 1)	(Y)			
HDMI source	HDMI cable	Gunnatu	Frame Capt	ure			Lane 1: Swing leve - Clock recovery = - Symbol lock = 1 (1 (Y)	is level 0		
30037 20 00 524			Frame Comp	bare			- Channel EQ = 1 Lane 2: Swing leve	Ń	sis level 0		
	DP cable						 Clock recovery = Symbol lock = 1 (1 (Y) Y)			
		A STATE AND AND A STATE AND AND A STATE AND AND A STATE AND A STAT					- Channel EQ = 1 I Lane 3: Swing leve	el 0, pre-emphas	sis level 0		
		730C Multi-Veerfree Intergreentality Tester for Videe and Audio					 Clock recovery = Symbol lock = 1 (Channel EQ = 1 	Y)			
	HDMI / DP						Inter-lane Alignme				
	converter		DP (8 bpc RGB)	2048x1280p 60.00 frames/s	Unknown	HDMI 3D disabled	AVMUTE disabled	Not HDCP encrypted	+5V detected		
			D Interface: DP (8 bpc RGB)	Format: 2048x1280 60Hz	Pattern: Pseudo Random	3D: Disabled	Audio (DP): LPCM 2.0ch 48kHz	Enable HDCP			
					4		<u>k</u>		нро ок 🛛 🛛 🖉		

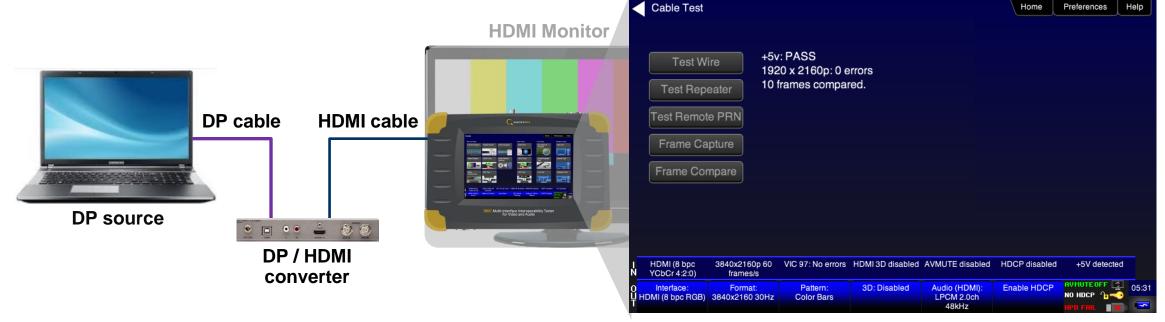
Cable Test

Preferences

Home



- DisplayPort Device Testing (780E)
 - Check for pixel errors on DisplayPort to HDMI converter.





Sample Applications – DisplayPort Cable Test

- DisplayPort Cable Testing (780E)
 - Check for pixel errors on a DisplayPort cable.

		Cable Test Test Wire Test Repea Test Remote I Frame Capt	1080p 1080p 720p6 480p6 PRN AUX (I ure	30 (8 bits): 0 err 60 (12 bits): 0 e 60 (8 bits): 0 err 0 (8 bits): 0 err 0 (8 bits): 0 err 0 (8 bits): 0 err EDID Read): P/	rrors rors irs irs	Link training info HPD detected, L 4 lanes, 5.40 Gb Lane 0: Swing le - Clock recovery - Symbol lock = - Channel EQ = Lane 1: Swing le - Clock recovery - Symbol lock = - Channel EQ = Lane 2: Swing le - Clock recovery - Symbol lock = - Channel EQ = Lane 3: Swing le - Clock recovery - Symbol lock = - Channel EQ = Lane 3: Swing le - Clock recovery - Symbol lock = - Channel EQ = Inter-lane Alignm	ink trained ps per lane evel 0, pre-emph = 1 (Y) 1 (Y) evel 0, pre-emph = 1 (Y) 1 (Y) evel 0, pre-emph = 1 (Y) 1 (Y) 1 (Y) evel 0, pre-emph = 1 (Y) 1 (Y) 1 (Y) 1 (Y) 1 (Y) 1 (Y) 1 (Y) 1 (Y) 1 (Y) 1 (Y)	nasis level O nasis level O nasis level O	Help
`	ł	DP (8 bpc RGB)	2048x1280p 60.01 frames/s	Unknown	HDMI 3D disabled	AVMUTE disabled	Not HDCP encrypted	+5V detected	
	Į	Interface: DP (8 bpc RGB)	Format: 2048x1280 60Hz	Pattern: Pseudo Random	3D: Disabled	Audio (DP): LPCM 2.0ch 48kHz	Enable HDCP	AVMUTEOFF	16:59

