

8 inch OTDR Tester CS-R8-80H

Application:

- Wavelength 1310 / 1550nm, max test range 105KM
- Dynamic range 28 / 26dB, SOR standard data saving
- Stable laser source, Digital Multimeter
- Optical power meter and visual fault locator
- IP camera test, support onvif, 4K, 8K, H.264 and H.265
- Cvs camera test, 8MP CVI, 8MP TVI, 8MP AHD camera test
- 8MP EX-SDI, HD-SDI, 3G-SDI
- Cable tracer app with toner wand, RJ45 cable TDR test
- DC12V 3A, DC24V 2A and 48V / 25.5W PoE power output
- Support HDMI Input, HDMI output, VGA input
- TDR cable open circuit and short circuit measurement
- Laser distance meter, measurement range 100m, accuracy±3mm
- Built- in camera, support camera Lens focal distance test
- One Gigabit SFP optical fiber module port for optical fiber network test



Optical Time Domain Reflectometer

Feature:

OTDR Test:

- 1310 / 1550nm wavelength, 28 / 26dB Dynamic range, max test range 105KM
- Stable laser source, support CW/270/330/1000/2000Hz
- Test fiber's length, loss, attenuation parameters and event map, locate connection point / fusion point
- Automatic analysis of various linkers/fusion points, easy analyze of various events
- Save and view the testing curves, support zoom and move curves, view details.
- Support saving curves number ≥30000pcs
- Support create testing report, including curve trajectory graphs, parameter settings, fiber event information, and fiber link information. Report saved as EXCEL, PDF, or screenshots format etc
- Optical Loss test, detect the optical or optical components loss value
- Optical power meter and Visual fault locator
- Laser distance meter, range 100m, accuracy ±3mm. It supports multiple measurement modes of length, side length, area and volume, and can accumulate and save test results.

Camera Test:

- Test IP camera, support 8K H.265 video display via mainstream
- Test cvs camera, 1 channel BNC input , NTSC/PAL (Auto adapt)
- Test 8MP HD-TVI camera, 3840 x 2160P 15 fps, 4xzoom, video record & playback, coax PTZ control & call OSD menu
- Test 8MP AHD camera, 3840 x 2160P 12.5F / 15fps, 4xzoom, video record & playback, coax PTZ & call OSD menu
- Test 8MP HD-CVI camera, 3840 x 2160P 12.5 / 15fps, 4xzoom, video record & playback, coax PTZ & call OSD menu

- 8MP EX-SDI test, 3840 x 2160P 25/30 FPS, 4xzoom, video record & playback, coaxial PTZ & call OSD menu
- HD-SDI test, 1920 x 1080P 25/30/50/60 FPS, 4xzoom, video record & playback, coaxial PTZ & call OSD menu
- 3G-SDI test, 1920 x 1080P 50/60 FPS, 4xzoom, video record & playback, coaxial PTZ & call OSD menu
- Support CVI 5.0 audio testing
- Support 4K 60FPS HDMI input, 4K 30 FPS HDMI output
- Support 2K 60FPS VGA input
- Rapid onvif, Auto log in and display image, create testing report
- Chrome browser, test and set Axis camera
- DC12V / 3A power output, camera can be powered from DC 12V Voltage
- 48V PoE power output
- Rapid video, just by one key to detect all network cameras and auto display
- Built in Wi-Fi, display image from the wireless camera, create WIFI hotspot

Cable Test:

- Cable tester, UTP cable, telephone cable etc sequence and continuity test, save testing report. Support detect the near-end, mid-end and far-end fault point of the RJ45 cable plug
- RJ45 cable TDR test, test cable pair status, length, attenuation, reflectivity, impedance, skew etc, max test 180M
- Cable tracer, search BNC cable, network cable and telephone cable from the mess cables
- TDR cable open circuit and short circuit measurement, cable length and short – circuit measurement (BNC cable, network cable etc.)

Other functions:

- Digital Multimeter, DC and AC voltage measurement, Resistance measurement, Continuity test, Diode measurements, Capacitance measurement
- ONE Gigabit SFP port, support insert SFP optical fiber module, for optical fiber network testing
- New Power management file app, to quickly check POE48V, 24V2A, 12V3A power and voltage
- Build in camera, focal length of the lens calculating, recommend lens by testing and monitoring the distance, display real-time images, simulating the display area of different lens sizes of 2.8 / 3.6 / 4 / 6 / 8 / 12 / 16 / 25mm, for reference in lens purchase

Specification:

Specification	
Model Number	CS-R8-80H
Size & Display	8 inch IPS touch screen , 1920*1200 resolution
Network Port	Dual 1000M LAN port, 10/100/1000M auto adapt
WIFI	Built in 2.4G/5G WIFI, speeds 150M, display wireless camera image
H.265 mainstream test	H.265 & H.264 IP, 8K video display via mainstream
IP camera test	Support 500 brands IP camera test
IP discovery	Auto-scan the whole network segment IP address
HD coaxial camera test	8MP HD-TVI, 8MP HD-CVI , 8MP AHD, 8MP EX-SDI, HD-SDI, 3G-SDI camera test, UTC control & call OSD menu

CVBS camera test	1 channel BNC input, NTSC/PAL (Auto adapt)	
Zoom Image	4x zoom, enlarge image, screen snapshot, save, view and record and playback	
RJ45 cable TDR test	Test cable pair status, length, attenuation, reflectivity, and impedance, skew etc. Measurement range 180M.	
HDMI input / output	4K 60FPS HDMI input, 4K 30 FPS HDMI output	
VGA input	Support 1280x1024/960/800/768/720P 60FPS, 1152x870P 60FPS, 1024x768P 60FPS, 800x600P 60FPS, 640x480P 60FPS resolution	
TDR cable open circuit and short circuit measurement	Accurately measure BNC cable, network cable and telephone cable's break-point and short-circuits location. TDR breakpoint will determine where the breakpoint is. And it can indicate the distance in "meters" measuring in the tester. The farthest distance is 1200 meters.	
Built in Camera	Built-In Camera Pixels: 5000,000 pixels, support camera focus detection	
Laser distance meter	Measurement range100m, accuracy±3mm, Laser class 2, Laser type 635nm, Power output <1mW	
Power output	48V PoE / 24V2A / 12V 3A / 5V 2A power output	
UTP cable test	Test UTP cable connection status and display on the screen. Read the number on the screen. detect the near-end, mid-end and far-end fault point of RJ45 cable connector, also can test shield cable	
Data monitor	Captures and analyzes the command data from controlling device, also can send hexadecimal	
Gigabit SFP	Gigabit SFP optical fiber module	
Network test	Trace route, Link monitor, DHCP server, port flashing, Ping test	
Cable tracer	Search BNC cable, network cable and telephone cable from the mess cables. Cable tracer and UTP cable test app in the same interface, also can search shield cable	
Electroscope	Voltage range	AC12-1000V
	Frequency	50/60Hz
	Alarm type	Sounds and light double alarms
	Level	CAT.III 1000V / CAT.IV 600V;CE
PoE Voltage test	Measurement POE switch or PSE power supply voltage and cable connection status	
Visual fault locator	10mW visual fault locator with 650nm wavelength, emit red laser sources to test multi-mode and single mode fiber's bending and breakage, test range 8KM	
Optical power meter	Wavelength: 1625,1550nm,1490nm,1310nm,1300nm,850nm, measurement range: -70 ~ +10 dBm, for optical power testing and Fiber link loss relative measurement	
Digital Multimeter	AC/DC Voltage, AC/DC current, Resistance, Capacitance, Data hold, Relative measurement, Continuity testing. Testing speed: 3 times / seconds, Data range -6600~+6600.	
Power		
External power supply	DC 12V (2A)	
Battery	Built-in 7.4V Lithium polymer battery, 7800mAh	
Rechargeable	After charging 3.5 hours, normal working time 11 hours	
Parameter		
Operation setting	OSD menu, select your desired language: English, Portuguese, Korean, Russian, Italian, French, Polish, Spanish,	

	Japanese, Turkish, Deutsch, Serbian, Czech, Vietnamese etc
Auto off	5-30 (mins)
Working environment	
Working Temperature	-10℃ --- +50℃
Dimension	274mm x 171mm x 50mm (Tester); 320mm x 290mm x 98mm (box)
Weight	1350g (Tester); 2550g (Tester with spare parts, black package, box)
OTDR technical data	
Wavelength (nm)	1310 / 1550nm
Dynamic range(dB) ²	28 / 26dB
Pulse width (ns)	5,10,20,30,50,80,160,300,500,800,1000,2000,4000,6000,10000,20000
Testing distance	≤105 Km
Event blind zone (m) ³	≤2.m
Attenuation blind zone (m) ³	≤10m
Linearity (dB/dB)	±0.05 dB/ dB
Loss threshold (dB)	0.05
Loss resolution ratio (dB)	0.01
Minimum distance resolution	0.05
Sampling point	32-128
Distance uncertainty (m)	±(1 m + 5×10 ⁻⁵ × distance + sampling interval)
Distance scope (km)	0.5,1,2,5,10,25,50,100,200
Typical real-time refreshing duration	1s
File format	SOR standard format/PDF/EXCEL
Measurement duration	5sec, 10sec, 15sec, 30sec, 1min, 2min, and 3min are selectable
Storage	FLASH (EMMC) 16G + TF card
Interface type	FC-PC, SC-PC
Remarks: 1. The technical specification describes the ensured performance of the instrument when using typical PC model connector to measure, without considering the uncertainty caused by optical fiber refractivity. 2. Dynamic range is the data measured under the condition of the maximum pulse width and 3 minutes of average time. Dynamic range is the data measured under the condition of 200km/20000ns/3min. 3. Measuring conditions of blind zone: reflection event is within 5Km, reflection strength is 45dB. Measured by the minimum pulse width.	