

Code: CS-R8-80H

## OPTICAL REFLECTOMETER (OTDR) WITH CCTV TESTER **CS-R8-80H**

Optical reflectometer (OTDR) with a multi-functional AHD, HD-CVI, HD-TVI, IP camera tester with many additional functions necessary during initialization CCTV and fiber optic installations.



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| Optical time-domain reflectometer (OTDR):        | <ul style="list-style-type: none"> <li>Optical wavelength : 1310 nm / 1550 nm,</li> <li>Dynamic range : 28/26 dB</li> <li>Wide measuring range <math>\leq 105</math> km</li> <li>Accuracy : <math>\pm (1 \text{ m} + 5 \times 10^{-5} \times \text{distance} + \text{sampling interval})</math></li> <li>Connectors : SC</li> <li>Measurement duration : 5 s, 10 s, 15 s, 30 s, 1 min, 2 min, 3 min</li> </ul> |
| Optical power measurement:                       | Optical power measurement in fiber optic networks (ST and SC adapters)<br>Optical wavelength : 850, 1300, 1310, 1490, 1550, 1625 nm<br>Range : -70 ... +10 dBm                                                                                                                                                                                                                                                 |
| VLS (VFL) - Visual Fault Locator of fiber cable: | Laser LD, 650 nm, 10 mW<br>Range 8 km                                                                                                                                                                                                                                                                                                                                                                          |
| Video standard:                                  | <ul style="list-style-type: none"> <li>AHD - 8 Mpx,</li> <li>HD-CVI - 8 Mpx,</li> <li>HD-TVI - 8 Mpx,</li> <li>TCP/IP - 8K,</li> <li>CVBS - PAL / NTSC</li> </ul>                                                                                                                                                                                                                                              |
| Display:                                         | 8 " IPS - capacitive touch screen, 1920 x 1200 px                                                                                                                                                                                                                                                                                                                                                              |
| Video input:                                     | <ul style="list-style-type: none"> <li>1 pcs AHD / HD-CVI / HD-TVI / HD-SDI / CVBS - BNC socket,</li> <li>1 pcs HDMI, 60 fps, 4K</li> <li>1 pcs VGA</li> </ul>                                                                                                                                                                                                                                                 |



# DATA SHEET

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| Video output:                                   | 1 pcs HDMI 4K                                                                                                                                                                                                                                                                                                                                                      |
| Port LAN:                                       | 2 pcs - PoE cameras and switches support                                                                                                                                                                                                                                                                                                                           |
| Audio input:                                    | 1 pcs Mini Jack                                                                                                                                                                                                                                                                                                                                                    |
| Audio output:                                   | 1 pcs Mini Jack                                                                                                                                                                                                                                                                                                                                                    |
| Video signal level meter:                       | —                                                                                                                                                                                                                                                                                                                                                                  |
| Video signal generator:                         | —                                                                                                                                                                                                                                                                                                                                                                  |
| Serial ports:                                   | RS-485                                                                                                                                                                                                                                                                                                                                                             |
| Protocols:                                      | Support for over 30 RS485 protocols : Pelco-D, Pelco-P, YAAN, YAAN-O, YAAN-1, SAMSUNG, PANASONIC, Lilin-FAST, Lilin-MLP2, MOLYNX, MINKING A01, Fastrax, CBC, LC-NEW, WV-CS850, SONY-EVI, LG-MULTIX, DAT-SD, VICON, Vcltp, DH-YTC 06, Santachi, Bosch OSRD, TeleEye DM2, HD 600, Hikvision, KALATEL ASC, AD 168(M-B), SAMSUNG SPD, Siemens, Cohu, MINKING B01, ALEC |
| Baud rates:                                     | 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 115200 b/s                                                                                                                                                                                                                                                                                                    |
| LAN (twisted-pair) or telephone cables testing: | UTP cables or phone lines connecting test with RJ-45 connectors                                                                                                                                                                                                                                                                                                    |
| RS-485, lines test:                             | Data analysis from control device (the commands are displayed in hexadecimal)                                                                                                                                                                                                                                                                                      |
| Wi-Fi module:                                   | ✓                                                                                                                                                                                                                                                                                                                                                                  |
| Identification the wire in the group of wires:  | ✓                                                                                                                                                                                                                                                                                                                                                                  |
| Audio test:                                     | ✓                                                                                                                                                                                                                                                                                                                                                                  |
| Digital multimeter:                             | Measurement : voltage, current, resistance, continuity test, diode test, electrical capacity                                                                                                                                                                                                                                                                       |
| TDR reflectometer:                              | Detecting and locating a cable break or short circuit, 180 m (max)                                                                                                                                                                                                                                                                                                 |
| Operation as power source:                      | <ul style="list-style-type: none"><li>• 5 V DC / 2 A from USB port</li><li>• 12 V DC / 3 A</li><li>• 24 V DC / 2 A</li><li>• 48 V (PoE, LAN), 24 W</li></ul>                                                                                                                                                                                                       |
| Battery power supply:                           | <ul style="list-style-type: none"><li>• 7.4 Li-Ion battery 7800 mAh</li><li>• 12 V DC / 2 A (power adapter included)</li></ul>                                                                                                                                                                                                                                     |
| Estimated battery operation time:               | ≤ 11 hours                                                                                                                                                                                                                                                                                                                                                         |
| Operation:                                      | Graphical menu - touch control and by using the buttons                                                                                                                                                                                                                                                                                                            |

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| Main features:                 | <ul style="list-style-type: none"> <li>• Optical time-domain reflectometer (OTDR)</li> <li>• AHD cameras test</li> <li>• HD-CVI cameras test</li> <li>• HD-TVI cameras test</li> <li>• HD-SDI cameras test</li> <li>• PAL/NTSC cameras test</li> <li>• IP cameras test - Supported image compression methods : H.265, H.264, MJPEG</li> <li>• Searching and view of IP cameras compatible with Onvif</li> <li>• Motor units and PTZ (Speed Dome) cameras control</li> <li>• IP cameras view from embedded applications - DH test tool, Hik test tool, UNV Test Tool, HuaWei Tool, TP-Link tool</li> <li>• EZView</li> <li>• Built-in camera (possibility to take photos and record videos)</li> <li>• Embedded Internet browser - Google Chrome</li> <li>• LAN connections monitoring</li> <li>• IP addresses scanner</li> <li>• PING - test the link using ICMP packets</li> <li>• Detection of the connected port in switch</li> <li>• LAN (twisted-pair) cables testing</li> <li>• The Cable tracer application - easy cable location in a disordered bundle</li> <li>• PoE cameras and switches support</li> <li>• PoE power meter</li> <li>• DC 5V / 12V / 24V / 48V power source</li> <li>• TDR reflectometer</li> <li>• Optical power meter</li> <li>• VLS (VFL) - Visual Fault Locator of fiber cable</li> <li>• Data monitor - serial port data analysis RS-485</li> <li>• Laser Rangefinder : 100 m <math>\pm</math> 3 mm</li> <li>• Digital Multimeter</li> <li>• Audio test</li> <li>• Hotspot - Wi-Fi</li> <li>• Playback the records</li> <li>• VLC Media Player application installed - the ability to play multimedia files in many popular formats (.mp3, .mp4, .avi, .mpeg and others)</li> <li>• Calculator</li> <li>• Quickoffice package installed - creation and reading of .docx text documents, .xlsx spreadsheets and .pptx multimedia presentations</li> <li>• Flashlight built-in</li> <li>• The ability to change the display theme and background</li> <li>• Android 10</li> </ul> |
| Operation temp:                | -10 °C ... 50 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Permissible relative humidity: | 30 % ... 90 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Weight:                        | 1.35 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dimensions:                    | 274 x 170 x 48 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Supported languages:           | Polish, English, Bulgarian, Czech, French, Greek, Spanish, German, Portuguese, Russian, Turkish, Italian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Guarantee:                     | 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |