



TDR Cable Analyzer	5-in-1 Testing	PoE & Power Output	7" Retina Touchscreen
RJ45 cable diagnostics: status, length, attenuation, reflectivity, impedance per pair, up to 180 m	IP (H.265 up to 8K/32MP), TVI 5.0, CVI 4.0, AHD (up to 4K/8MP), CVBS	48V PoE 25.5W + 12V/3A + 24V/2A + 5V/2A USB, powers any camera on site	1200x800 display, Android 11.0, dual Gigabit Ethernet, built-in WiFi

Built-in TDR Cable Analyzer — Diagnose Cables Without Extra Tools

The integrated TDR (Time Domain Reflectometer) function tests each RJ45 cable pair individually, reporting status (open/short/good), length, attenuation (dB/100m), reflectivity, impedance and slope — with a measuring range up to 180 meters. Color-coded results instantly identify good, poor quality, or wet cables. Combined with advanced UTP testing (sequence, continuity, failure point detection for near/middle/far end), this tester eliminates the need for a separate cable analyzer on site, saving time and reducing the tools an installer needs to carry.

FEATURES

- Built-in TDR cable analyzer: status, length, attenuation, reflectivity, impedance per pair (up to 180 m)
- 5-in-1 testing: IP H.265 up to 8K/32MP, TVI 5.0 up to 4K/8MP, CVI 4.0, AHD, CVBS
- 7" retina touchscreen (1200x800), Android 11.0 with automatic updates
- PoE output 48V DC 25.5W + multi-voltage: 12V DC/3A, 24V DC/2A, 5V DC/2A USB
- Advanced UTP cable test: sequence, continuity, failure point detection, report generation
- Dual Gigabit Ethernet ports (10/100/1000 Mbps) for inline camera-to-NVR diagnostics
- ONVIF test + 100 protocols + ONVIF Batch: mass activation, password and IP configuration
- HDMI 4K input/output + VGA input — use as portable monitor
- PTZ control via RS485, 600-115200 bps, 30+ protocols (PELCO-D/P, Samsung, Panasonic, etc.)
- Network tools: Link Monitor, DHCP Server, Flashing Port, Ping, IP/Port Scan, route tracing
- SFP fiber optic port + WiFi analyzer with signal strength and channel detection
- Built-in 7800 mAh Li-Po battery + WiFi 2.4 GHz 150 Mbps

MT-TSR-86MOVTADHV2

TECHNICAL SPECIFICATIONS

General	
Battery	Built-in 7.6V, 7800 mAh lithium polymer
Power Input	12V DC, 2A
Dimensions	240 x 135 x 35 mm (9.45" x 5.31" x 1.38")
Weight	965 g (2.13 lb)
LED Flashlight	Yes
Reset Button	Yes

IP Camera Testing	
Max. Resolution	32 MP (8K via H.265 main stream)
Protocol Support	ONVIF + 100 additional protocols
Functions	Live view, snapshot, video recording and playback, OSD menu, channel name modification, IP address discovery
Stream Selection	Main stream / Sub stream

TDR Cable Analyzer	
TDR Function	RJ45 cable pair diagnostics with color-coded results
TDR Parameters	Status (open/short/good), length, attenuation (dB/100m), reflectivity, impedance, slope
TDR Range	Up to 180 meters
Cable Quality Indicator	Green (good) / Yellow (poor) / Red (wet cable)
UTP Cable Test	Sequence and continuity test for UTP, BNC, telephone, shielded cables
Failure Point Detection	Near end, middle end and far end of RJ45 cable connector
Report Generation	Save and export test reports

Power Output	
PoE Output	Standard 48V DC, max 25.5W
12V DC Output	12V DC, 3A (for powering cameras)
24V DC Output	24V DC, 2A (for powering PTZ domes)
5V USB Output	5V DC, 2A

Wireless	
WiFi	Built-in 2.4 GHz, 150 Mbps
WiFi Analyzer	Detect nearby wireless networks, signal strength, channel and encryption info

TDR Cable Test



Environment	
Operating Temperature	-10 °C to +50 °C (14 °F to +122 °F)

Display	
Screen Size	7" retina touchscreen
Resolution	1200 x 800 pixels
Operating System	Android 11.0

Analog Camera Testing	
HD-TVI	Up to 8MP (4K), HD-TVI 5.0
HD-CVI	Up to 8MP (4K), HD-CVI 4.0
AHD	Up to 8MP (4K)
CVBS	Yes
Auto HD	Automatic recognition of HD coaxial camera type and resolution
HD Coaxial Test	Snapshot, recording, playback, zoom, OSD menu control over coaxial cable
CVBS Loop Test	Color bar generator signal for BNC cable testing
PTZ Control	RS485, 600-115200 bps, 30+ protocols (PELCO-D/P, Samsung, Panasonic, etc.)

Network Testing	
Network Tools	Route tracing; Link Monitor; DHCP Server; Flashing Port; Ping Test; IP Scan; Port Scan
ONVIF Batch	Mass activation, password change and IP configuration of multiple cameras simultaneously
IP Discovery	Auto-scanning of entire IP network segment with auto-IP adaptation
PoE Test	PoE network detection, power and voltage information
Dual Ethernet	Inline camera-to-NVR diagnostics: network status, device traffic, bandwidth, communication quality

Port	
Ethernet	2x RJ45 Gigabit (10/100/1000 Mbps)
HDMI	1x input (4K) + 1x output (4K)
VGA	1x input
BNC	CVI/TVI/AHD/CVBS input + SCAN/CVBS output
UTP Port	1 (for cable testing)
RS485	1 (for PTZ control)
Audio	1x input + 1x output + built-in microphone
TF Card Slot	1 (for recording and screenshots)
SFP	1 (for fiber optic network testing)
USB	Power output 5V/2A