

TESTPRO 100

INDUSTRY'S FIRST



TESTPRO 100

The TestPro 100 series is the industry's most versatile handheld testing platform for the qualification, validation, and certification of network cabling installations. The functionality of the TestPro 100 includes multi-gigabit link validation testing and high performance DC and PoE measurements. Additionally, the TestPro CV100 offers an option to perform CAT6A copper cable certification at unparalleled test speeds.

HIGHLY SCALABLE AND FLEXIBLE

The TestPro 100 features an interface for detachable adapters. They enable a wide variety of testing functions, catering to the needs of today's network infrastructures. They can also be easily scaled at smaller incremental investments to meet future needs.

Although the TestPro CV100 is designed to be a comprehensive validation, certification, and troubleshooting platform for enterprise networks, it comes at a highly affordable price. It allows customers to easily add on to functionalities according to their needs.

NETWORK VALIDATION TESTING

The TestPro 100 with AD-NETCABLE validates a cabling link for high performance Ethernet standards including 2.5GBASE-T, 5GBASE-T, and 10GBASE-T. End-to-end SNR measurement provides a quick and objective assessment of link performance under network load conditions. In fact, the auto-test feature of the TestPro 100 is the easiest and the most reliable way to ensure that a cabling link will support the desired network rate.

FULLY
SCALABLE
HIGHLY
FLEXIBLE



COMPREHENSIVE MEASUREMENT CAPABILITIES

POE TESTING

The AD_NETPOE adapter on the TestPro 100 provides the most comprehensive test functionality for verifying PoE deployments. All PoE standards including the 90W 802.3bt standards are supported. The PoE source is tested with actual load connection. The tester also allows for sustained loading of the PoE source over longer periods, through external loads.

In addition to operational tests on PoE, the tester enables characterisation of cabling links for resistance unbalance parameters in accordance with the latest TIA 1152A standard for certification testing.

COPPER CABLE CERTIFICATION TESTING (TESTPRO CV100)

The TestPro CV100 platform features the most sophisticated RF measurement engine available in any handheld tester. Capable of supporting up to 3GHz frequency range, and testing all mode combination parameters (including TCL), the TestPro CV100 exceeds the level 2G accuracy specifications for copper certification testing. Currently available adapters provide CAT6A certification test, with an active roadmap for CAT8 certification. The capability of the TestPro CV100 platform makes it an ideal platform for fibre certifications as well, which will be added in the near future.



ALL-IN-ONE

COMPREHENSIVE MEASUREMENT CAPABILITIES

GENERAL SPECIFICATIONS

TestPro 100 platform specifications:

SIZE

- 200mm X 105mm X 50mm

DISPLAY

- 5" TFT colour touch screen, resolution 800 x 480 pixels

BATTERY

- Lithium ion
- 3.7V
- 13,200 mAh

POWER ADAPTER

- 5V, 3A (supplied)
- 5-12V (supported)
- 2.1mm DC jack

OPERATING SYSTEM

- Linux

CPU

- 1GHz ARM Cortex-A8

USB TYPE A

- USB flash drive storage

MicroUSB

- For connecting to PC

RJ-45

- 10/100/1G test port,
- network connectivity port

BLUETOOTH

ADAPTER INTERFACE

- 60-pin high-frequency connector rated for 5000 insertion cycles
- Hot-swappable

BUILT-IN MEASUREMENT CAPABILITIES

- Wiremap, DC resistance and resistance unbalance, network tests
- Tone generator (730Hz and 1440 Hz)
- All possible wire connection situations identified, as long as two wires are connected end-to-end on any pins
- DC resistance measurement range: 0 to 50 ohm
- Resistance (including resistance unbalance): meets TIA 1152A specs

INTERNAL STORAGE

- 4 GB

TEST DATA MANAGEMENT

- Test data pro PC software for report generation

TestPro CV100 certifier platform specifications:

BUILT-IN MEASUREMENT CAPABILITIES

MMVNA measurement engine

- 9-channel dual-ended mixed-mode RF and DC measurement engine
- Industry's highest performance patent-pending measurement architecture for data cable testing

Frequency range

- 0.1 – 3,000 MHz
- Wide 30,000 X frequency range

Frequency resolution

- 0.125 MHz
- Supports all frequency ranges required by TIA 1152A, ISO/IEC 61935-1 and beyond

Measurement time

- CAT6A auto-test (including TCL and resistance unbalance tests): 6 sec
- CAT8 Class II auto-test: 30 sec

Dual-ended RF measurements

- IL, RL, NEXT, ACR-F, TCL
- All mandatory and optional RF measurements as per standards
- Single-pair link testing option with supported length for dual ended testing greater than 1,000 m

Length (propagation delay) measurement

- Dual ended test: 0 – 600m with 0.1m resolution (0 – 6,000 nsec with 1 nsec resolution)

Supportable devices under test

- 4-pair ethernet cables
- 1-pair ethernet cables
- Optical cables (SM/MM single pair, MPO)

TDR- RL

- 0 – 100m (resolution: 1m)
- Distance-to-fault

TDR- NEXT

- 0 – 100m (resolution: 1m)

AD-NETCABLE adapter specifications:

SUPPORTED ETHERNET STANDARD

- 802.3an, 802.3bz

ETHERNET SPEEDS

- 1G / 2.5G / 5G / 10G

AUTO-TEST PARAMETERS





- SNR at each speed
- Cable diagnostics
- PoE detection

PoE SOURCE DIAGNOSTICS

- PoE source type up to 90W
- 802.3af, 802.3at, 802.3bt
- Load test and continuous load test
- Identification of PoE pairs



KIT CONFIGURATIONS

KIT PRODUCT NUMBER	KIT CONTENTS	DESCRIPTION
TestPro CV100-K05 (1G basic kit)	<ul style="list-style-type: none"> Two TestPro CV100 mainframes, carry case and accessories 	Basic 1G test kit for BER test, traffic test, wiremap, cable diagnostics (using side-port on the mainframe)
TestPro CV100-K30 (Multi-gig SNR and PoE kit)	<ul style="list-style-type: none"> A pair of TestPro CV100 mainframes A pair of TP-AD-NETCABLE adapters 	A validator test kit for 10G link validation using SNR testing, wiremap, distance-to-fault, resistance unbalance measurements, and PoE tests
TestPro CV100-K50 (CAT6A certification kit)	<ul style="list-style-type: none"> A pair of TestPro CV100 mainframes A pair of TP-AD-6ACH adapters A pair of TP-AD-6APL adapters TP-OP-CAT6A license Carry case and accessories 	A level 2G cable certifier test kit for cable certification, with CAT6A channel and link adapters
TestPro CV100-K60 (CAT6A certification, multi-gig SNR, and PoE combo kit)	<ul style="list-style-type: none"> A pair of TestPro CV100 mainframes A pair of TP-AD-6APL adapters A pair of TP-AD-NETCABLE adapters TP-OP-CAT6A license Carry case and accessories 	A combo kit with cable certification and network testing including SNR and PoE tests

ADAPTORS AND LICENSES

TP-AD-NETCABLE

- Adapter with two RJ45 ports for network, PoE, and cable testing
- DC resistance unbalance measurement

TP-AD-6ACH

- CAT6A channel adapter
- CAT5e/6/6A channel certification when attached to TestPro CV100 with TP-OP-CAT6A option enabled

CTP-AD-6APL

- Cat6A permanent link adapter
- CAT5e/6/6A permanent link certification when attached to TestPro CV100 with TP-OP-CAT6A option enabled

TP-OP-CAT6A

- CAT6A certification testing option
- Enables cable certification testing up to and including CAT6A on a TestPro CV100 mainframe

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**CAT6A
IN
6 SECONDS**