

# ParaScope ADSL2+ez

*The most affordable way to turn up  
ADSL2+ circuits and IPTV*

## Main Features

- One-button test with pass/fail results.
- Highly water resistant to withstand foul weather conditions.
- Fast Copper tests with DMM (ACV, DCV, Loop and Insulation Resistance, Capacitance, Line length)
- Supports MODEM emulation and simulating Internet login
- Supports ISP login and IP Ping test
- Supports 10/100M LAN IP Ping test
- Complies with all multi-standards
- Supports all multi-protocols
- Bits/Tone
- Connects to Telco via alligator clips or RJ-11
- Field replaceable, rechargeable lithium battery module
- Beep and LEDs alarm indications (Low power, ADSL, and Ethernet)
- Large storage capacity—can store up to 60 groups of test results
- Auto shut-off
- Compliant with all known DSLAMs
- Supports Annex A, L, M (Annex B available)
- Supports RJ45 interface with connection to Internet via PC to provide pass through and monitoring of ADSL line status



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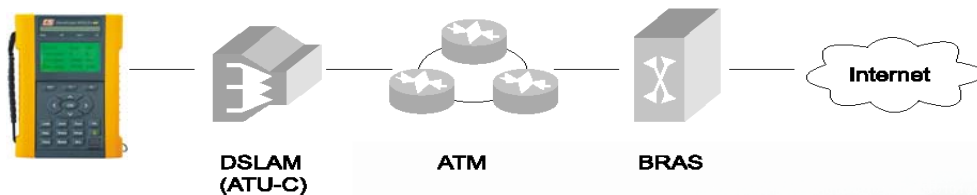
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# Applications



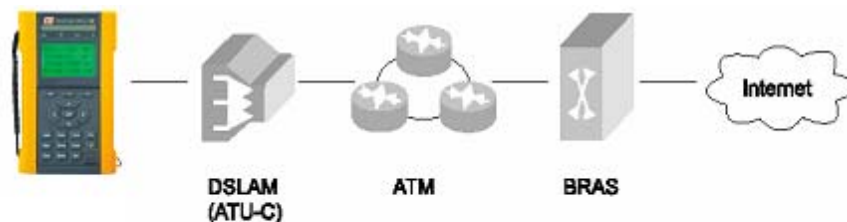
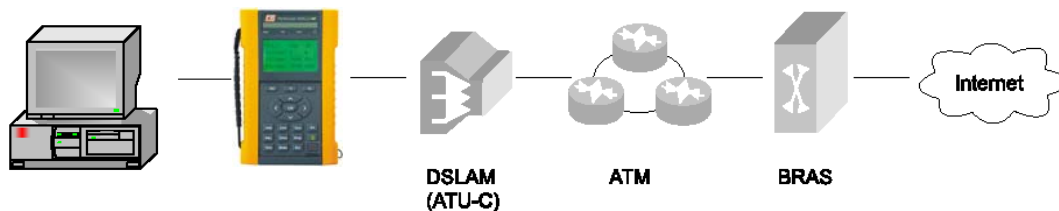
## ADSL1/2/2+ Physical Parameters Test



- ⇒ Line Parameters Measurement: Maximum & current up/down stream line rate, actual up/down stream line rate, actual work channel (fast or interleaved), channel usage, current up/down stream noise margin, current up/down stream line attenuation, up/down stream output power.
- ⇒ DMT Sub-channel Carrier Chart: Display graphical bit-map and numerical value of DMT modulated sub-channel. (GUI shows ADSL 256 DMT, ADSL2+ 512 DMT wave bits/tone, SNR/ tone.)
- ⇒ ADSL error frame statistics: Forward Error Corrections (FEC), Cyclic Redundancy Check (CRC), and Header Error Check (HEC) at both the near and far end.
- ⇒ ADSL Defect Information: Loss of Signal (LOS), Loss of Frame (LOF), Loss of Power (LOP), Loss of Margin (LOM) and Loss of Cell Delineation (LCD) at both the near and far end.

## ADSL Modem Emulation

Replace ADSL1/2/2+ Modem

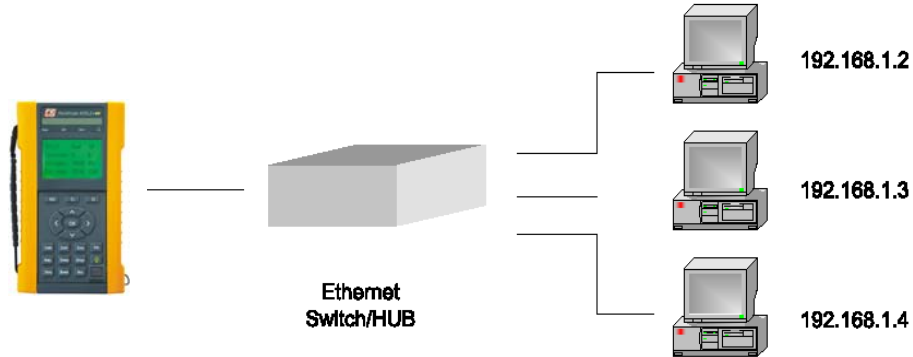


## ISP Login and PING Test

- ⇒ Simulate PPPoE/PPPoA virtual dialing user behavior by inputting VPI, VCI, username and password, to validate user login with PPPoE/PPPoA virtual dialing mode.
- ⇒ Send consecutive PING packets to a specified host to validate connectivity of WAN and display error rate and delay.
- ⇒ Supports fixed PING test including gateway IP address settings, and MER, MAC Encapsulated Routing mode settings.
- ⇒ Simulate CPE via Ethernet interface to connect with ATU-R showing sequence noise margin and time contrast relationship.
- ⇒ Supports loop resistance test and measures coaxial open-or-short circuit status.

# Applications Continued

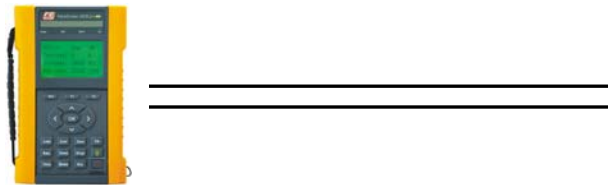
## LAN Test



Send PING packets to validate connectivity of LAN using the integrated Ethernet port to connect to an Ethernet switch.

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## Digital Multi-meter (DMM) Test



Auto-ranging digital multi-meter (DMM) tests loop resistance, capacitance, insulation resistance and AC/DC voltages. Use the DMM to ensure that the copper circuit under test can deliver the specified IPTV quality.

# Specifications

Item	Description
ADSL Line Connector	RJ-11
Ethernet Connector	RJ-45@100Ω
Line Code	DMT
Downstream Rates Supported	Up to 24Mb/s
Upstream Rate Supported	Up to 2.5Mb/s
Transmission Distance Supported	Up to 6.5km
Alarm and Status Indications	ALARM, LAN LINK, WAN LINK, CHARGE, etc
DMM	<u>DMM Parameter Ranges</u> DC Voltage: Range: -240V to 240V Accuracy: +/- 5% AC Voltage: Range: 0V to 240V Accuracy: +/- 5% Loop Resistance: Range: 5 Ohms to 5 KOhms Accuracy: +/- 5% Insulation Resistance: Range: 5 Ohms to 50 M Ohms Accuracy: +/- 10% Capacitance: Range: 0nF to 500nF Accuracy: +/- 10%
Standards Supported	Comply with: ANSI T1.413 Issue 2 ITU-T G.992.1(G.dmt), ITU-T G.992.2 (G.lite), ITU-T G.992.3(ADSL2), RE-ADSL2 ITU-T G.992.4(Splitterless ADSL2), ITU-T G.992.5(ADSL2+)
Encapsulation Supported	PPPoE (RFC 2516), PPPoA/LLC (RFC 2364), PPPoA/VC-MUX (RFC 2364) RFC 1483, supporting Bridged and Routed modes, Static IP and DHCP RFC 2684, supporting Bridged and Routed modes, Static IP and DHCP Bridged Ethernet supporting Bridged and Routed modes, Static IP and DHCP
LCD	128 x 64 Dot Matrix with backlight
Rechargeable Batteries	7.2V/2500mAh lithium batteries, continuous operation for more than 4 hrs.
AC Power Adapter	Input: AC 100V-240V, 50/60Hz Output: DC8.4/.7 A
Record View II	Operating System:WIN98/ME/2000/XP
Operating Temperature	0 to 50 degress C, 32 to 122 degrees F
Humidity	5%–90% non-condensing
Dimensions	L×W×H: 7.28" X 4.53" X1.77" or 185mm X 115mm X 45mm
Weight	700 grams or 1.55 lbs.

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