Eliminate guesswork from PoE installations

PoE Pro
Data Cable and Power over Ethernet Verifier
The new PoE Pro eliminates guesswork when installing, maintaining and troubleshooting networks where PoE is deployed.

Previously technicians had to understand all the various standards, device power outputs and cable lengths to be sure a device will operate successfully.

The PoE Pro identifies the Class of the PoE source and power available to a PoE device regardless of cable length, cable quality or other factors. Provides a clear pass/fail result to IEEE 802.3af/at/bt standards.

**PoE Verification and Troubleshooting**

**Do you have enough power at the device location?**

PoE Pro displays the maximum power available at the device location including the maximum watts, Class (0-8), Voltage, Type (af/at/bt) and 2/4 pair operation.

Some switches or injectors may provide power that exceeds their IEEE Class rating. The PoE Pro can test this ability with its extended power test. Simply press the network button for 3 seconds and the PoE Pro will increase power demand up to a maximum of 90 watts.

**What type of Power Sourcing Equipment is in use?**

Reduce troubleshooting time by identifying the type of PoE equipment in use. End-point PoE switches are in the equipment room vs mid-span injectors can be anywhere along the cable.

This is achieved by displaying which twisted pairs have power. Power on pairs 1/2, 3/6 indicates a PoE switch and power on pairs 4/5, 7/8 indicates a mid-span injector.

**Does the PoE switch provide enough power?**

Test and verify PoE switches and injectors by connecting directly to them and displaying the maximum power, Type (af/at/bt), Class (0-8) and Voltage.

PoE Pro

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PoE Switch/PSE

Mid-span injector

Switch

Patch Cable

IP Camera

WiFi Access Point

TV Monitor

IP Phone

www.idealnetworks.net
Cable Verification and Troubleshooting

Accurate fault finding that saves time and money
The PoE Pro utilises Time Domain Reflectometry (TDR) to accurately measure cable length and provide distance to fault information. This speeds up fault finding as well as minimizing disruption and potential damage to fixtures and fixings.

Instant results
With comprehensive details on faults such as opens, shorts, crossovers and split pairs, PoE Pro identifies wiring errors instantly.

No need for separate testers
The integrated RJ11/RJ12 (voice), RJ45 (data) and F-Type (video) connectors allow faster testing of most types of low-voltage cables by eliminating the need for separate testers.

Validate voice and data services faster
PoE Pro quickly determines which media service is running over the cable, such as Ethernet, ISDN, PBX and PoE resulting in faster fault diagnosis.

Quickly determine network speed
Troubleshooting active Ethernet networks is also made easier with in-built network detection that displays the speed (10/100/1000) and duplex (Half/Full) status of a network port.

Voltage protection for your tester
The PoE Pro will detect high voltages and provide a visible and audible warning to prevent damage to the tester.

Cable tracing to save time
The analogue / digital tone generator with multiple tones can be used with most analogue and digital cable tracing probes which is essential for finding faulty or mis-labelled cabling.

Port identification
The port blink function will identify the switch port to which a cable is connected.
Troubleshooting PoE Example

Malfunctioning Device

Digital Display
Requires 75 watts

Verify Installation

Result

✗ Available power = 50W
✓ Ethernet 1000 Mb/s

Fault Detected
Power available to device at installed location does not meet device requirements.

Next step: Determine whether the PoE Switch or cable is at fault.

www.idealnetworks.net
The PoE Pro includes all the features of the VDV II Pro plus the advanced PoE features.

**VDVII Pro**

**Cable Verification**
- Supports RJ45, RJ11/12 and Coax connections
- Wiremap for miswires, split pairs, shorts and opens
- Shielded cable testing
- Cable length
- Distance to Open / Short (TDR)

**Cable Tracing**
- Analog and digital tone generator
- Compatible with common cable tracing probes

**Active Network Testing**
- Port Blink
- Media Service Detection – Ethernet, analogue / digital telephone service and ISDN
- Ethernet Speed Detection 10/100/1000 Mb/s

**Other Features**
- Instantaneous results – results are shown as soon as you plug in the cable
- Larger 2.9” display
- Backlight
- Over-voltage protection

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**PoE Pro**

All VDV II Pro features plus the following

**PoE Testing:**
- Validate PoE to ensure your device & network performs successfully
- Supports 802.3bt High Power PoE (up to 90 watts)
- Compatible with most non-standard PoE injectors
- Identifies PSE Type (af/at/bt)
- Identifies PSE Class – 0 to 8
- Determines maximum power available (watts) at the device location
- Displays voltage
- Displays how many pairs have PoE

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**Multimedia Support**
- RJ-45, RJ-11/RJ-12 and coax ports for verification of low voltage copper cables

**TDR Length Testing and Troubleshooting**
- Pinpoints cable faults eliminating unnecessary guesswork

**Tone Generator**
- Ability to identify and trace cables with a compatible inductive tone probe (optional)

**PoE Detection**
- Identify the IEEE standard, Class, Type, max Power (W) and Voltage (V) available

**Storage and Protection of Remote Unit**
- Reduces the chance of losing or damaging the remote unit. Additional numbered remotes available

**Large Backlit Screen**
- Instantaneous, easy to read test results

**Media Service Detection**
- Identifies analog (PBX) and digital (ISDN) telephone services

**Extended Power Test**
- Some switches / injectors may provide power exceeding its IEEE Class rating. Hold button for 3 seconds to measure maximum available power up to 90 watts

**Ethernet Detection**
- Displays network rate and duplex information

**Voltage Protection**
- Cable testing disabled if >2V detected

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**Proof of Performance**

**Extended Power Test**
- Some switches / injectors may provide power exceeding its IEEE Class rating. Hold button for 3 seconds to measure maximum available power up to 90 watts.
PoE Pro

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Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contents</th>
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</thead>
<tbody>
<tr>
<td>R158004</td>
<td><strong>PoE Pro</strong> – Data Cable and Power over Ethernet Verifier. Includes 1 x tester, 1 x dual port remote unit, 1 x coax remote unit, 1 x alkaline battery, 1 x multi-language user guide, 2 x RJ45 to alligator clip cable 390mm, 2 x screened RJ45 to RJ45 cable 150mm, 2 x RJ12 to RJ12 cable 100mm, 1 x F-type plug to F-type plug cable 230mm, 1 x F-81 barrel splice, 1 x BNC female to F-type male adaptor, 1 x BNC female to F-type female adaptor, 1 x RCA female to F-type male adaptor, 1 x RCA female to F-type female adaptor, 1 x wallet wiring card, 1 x carry case.</td>
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</table>

Optional Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contents</th>
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</thead>
<tbody>
<tr>
<td>158050</td>
<td>Kit of 12 x RJ-45 remote units* (#1 - #12)</td>
</tr>
<tr>
<td>158051</td>
<td>Kit of 24 x RJ-45 identifiers** (#1 - #24)</td>
</tr>
<tr>
<td>158053</td>
<td>Kit of 12 x coax remote units* (#1 - #12)</td>
</tr>
<tr>
<td>62-164</td>
<td>Amplifier Probe</td>
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</tbody>
</table>

* Separate numbered remotes allow multiple cables to be tested more quickly
** Multiple identifiers simplify cable labelling at the patch panel

Basic Specifications

<table>
<thead>
<tr>
<th>Dimensions (mm)</th>
<th>Weight</th>
<th>Length Range</th>
<th>Battery Type</th>
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<tbody>
<tr>
<td>160 x 76 x 36</td>
<td>0.26 kg</td>
<td>0.3 - 450m / 1-1476 ft (Plus and Pro only)</td>
<td>9V alkaline. Typically 20 hours minimum continuous use (backlight off)</td>
</tr>
</tbody>
</table>

For detailed specifications, please visit our website.