

# DSX-602 CableAnalyzer™

June 11, 2019

## Overview

The DSX-602 CableAnalyzer advantage: speed, performance and accuracy. The DSX-602 CableAnalyzer is the essential certification tool for copper, twisted pair structured cabling from Cat 3 / Class C through Cat 6A / Class EA. It features speed and reliability that makes you more efficient and productive – you can see the results on the bottom line. Its gesture-based user interface allows your techs to spend less time interpreting screens and more time testing. The 500 MHz frequency range certifies Cat 6A/Class EA cabling for 10 Gigabit Ethernet in just 10 seconds. Advanced diagnostics pinpoint the location of a failure. LinkWare™ Live cloud-based service lets you manage certification jobs anytime, anywhere, with anyone on any device.



## Cat 6A certification in 10 seconds

The DSX-602 CableAnalyzer gives you a complete solution that streamlines every aspect of the certification job – from setup, to testing and troubleshooting, to reporting results to the customer. The DSX-602 performs Class E/Cat 6 certification tests in

just 9 seconds and Class EA/Cat 6A in 10 seconds – in full compliance with industry standards and with the industry's highest accuracy. This incredible speed means you can test hundreds of links in an eight-hour shift.

## Troubleshoots faults fast

When a link fails, the DSX-602 HDTDR and HDTDX algorithms quickly identify the point of failure (distance from the tester). Instead of spending time executing trial and error corrections – and re-testing to find out whether the problem has been resolved – the technician knows exactly where to look to fix the failing link. Even if only two percent of the cables certified in one shift fail Autotest, you'll save as much as two hours of labor time per day certifying.

## Fast even when you're not testing

The DSX-602 isn't just a fast way to test. It's ProjX™ system manages job requirements and progress from set-up to systems acceptance, making sure all tests are completed correctly right the first time. The Taptive™ gesture-based user interface, bright color display, ample memory, and built-in talk feature all contribute to overall productivity while enhancing the user experience. Extended battery life means you can do more on a single charge. This all adds up to save you time and money every day.



**DSX-602 CableAnalyzer™ Comparison Chart**

| Feature                   | DSX-602                                     | Versiv DSX-5000                    | Versiv DSX-8000                                                 |
|---------------------------|---------------------------------------------|------------------------------------|-----------------------------------------------------------------|
| Description               | Essential Cat 6A and Class EA copper tester | Cat 6A and Class FA copper tester  | Fastest, most accurate Cat 8 and Class I/II copper cable tester |
| Cat 3 – Cat 6A / Class EA | ✓                                           | ✓                                  | ✓                                                               |
| Class FA                  |                                             | ✓                                  | ✓                                                               |
| Cat 8 / Class I/II        |                                             |                                    | ✓                                                               |
| Maximum Frequency         | 500 MHz                                     | 1000 MHz                           | 2000 MHz                                                        |
| Autotest Time             | 10 sec Class EA/Cat 6A                      | 10 sec Class EA/Cat 6A 9 sec Class | 16 sec Cat 8 / Class I/II 8 sec Class EA/Cat 6A 7 sec           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |                                        |                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Autotest Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9 sec<br>Class<br>E/Cat 6              | E/Cat 6                                | Class E/Cat 6                          |
| Shield Integrity Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ✓                                      | ✓                                      | ✓                                      |
| Permanent Link Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Optional                               | Included                               | Included                               |
| Advanced Fault Info Troubleshooting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        | ✓                                      | ✓                                      |
| PoE Resistance Unbalance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        | ✓                                      | ✓                                      |
| Integrated Alien Crosstalk Capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | ✓                                      | ✓                                      |
| Coax Adapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Optional                               | Optional                               | Optional                               |
| M12 Adapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Optional                               | Optional                               | Optional                               |
| Patch Cord Adapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        | Optional                               | Optional                               |
| Fiber – OLTS, OTDR & Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        | Optional                               | Optional                               |
| Modular Plug Terminated Link (MPTL) support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        | ✓                                      | ✓                                      |
| LinkWare™ PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ✓                                      | ✓                                      | ✓                                      |
| LinkWare Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ✓                                      | ✓                                      | ✓                                      |
| Storage Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ~12,000 Cat 6A test results with plots | ~12,000 Cat 6A test results with plots | ~12,000 Cat 6A test results with plots |
| <p>The modular Versiv family future-ready design supports up to TIA Cat 8 and ISO Class I/II, singlemode and multimode fiber loss and OTDR testing plus inspection. Advanced diagnostics instantly pinpoint the cause and location of cable faults in plain language. Both Versiv copper cable testers provide measurements to support advanced technologies, including Alien Crosstalk for NBASE-T and other applications, and Resistance Unbalance for Power over Ethernet (PoE). To view the complete line of copper and fiber Cabling Certification products visit <a href="http://www.flukenetworks.com/versiv">www.flukenetworks.com/versiv</a></p> |                                        |                                        |                                        |

|      |                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------|
| DSX- | The DSX-602 is available in two versions: wireless and non-wireless. The wireless version of the DSX-602 |
|------|----------------------------------------------------------------------------------------------------------|

|                 |                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 602 Models      | includes integrated Wi-Fi for uploading results to LinkWare Live. The non-wireless version has the integrated Wi-Fi disabled for customers who do not wish to receive Wi-Fi support                                                                                                                |
| Model           | Description                                                                                                                                                                                                                                                                                        |
| DSX-602         | DSX-602 CableAnalyzer includes: DSX-602 CableAnalyzer Main Unit & Smart Remote Two Cat 6A/ Class EA channel adapters One 6-inch (15 cm) RJ45 reference patch cord Soft Carrying case USB cable for PC communications Two AC adapters DSX-602 Getting Started Guide                                 |
| DSX-602-NW      | Same configuration as the DSX-602 with integrated Wi-Fi disabled.                                                                                                                                                                                                                                  |
| DSX-602-PRO     | DSX-602-PRO CableAnalyzer includes: DSX-602 CableAnalyzer Main Unit & Smart Remote Two Cat 6A/ Class EA channel adapters One 6-inch (15 cm) RJ45 reference patch cord Two Permanent Link Adapters Soft Carrying case USB cable for PC communications Two AC adapters DSX-602 Getting Started Guide |
| GLD-DSX-602     | 1 YR Gold Support for the DSX-602                                                                                                                                                                                                                                                                  |
| GLD-DSX-602-PRO | 1 YR Gold Support for the DSX-602-PRO                                                                                                                                                                                                                                                              |

## Test Standards

|            |                                                                          |
|------------|--------------------------------------------------------------------------|
| TIA        | Category 3, 5, 5e, 6, 6A per TIA 568-C.2 or TIA-1005                     |
| ISO/IEC    | Class C and D, E, EA certification per ISO/IEC 11801:2002 and amendments |
| IEEE 802.3 | 10BASE-T, 100BASE-TX, 1000BASE-T, 10GBASE-T                              |

## General Specifications

|                                                                                              |                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Speed of Autotest                                                                            | Full 2-way Autotest of Category 5e or 6/Class D or E: 9 seconds; Full 2-way Autotest of Category 6A/Class EA: 10 seconds                                                                                                                                             |
| Supported test parameters (test standard determines parameters and frequency range reported) | Wire Map, Length, Propagation Delay, Delay Skew, DC Loop Resistance, Insertion Loss (Attenuation), Return Loss (RL), Near End Crosstalk (NEXT), Attenuation-to-Crosstalk Ratio (ACR-N), ACR-F (ELFEXT), Power Sum ACR-F (PS ELFEXT), Power Sum NEXT, Power Sum ACR-N |
| Maximum Frequency                                                                            | 500 MHz                                                                                                                                                                                                                                                              |
| Test Result Storage                                                                          | 12,000 Cat 6A with plots                                                                                                                                                                                                                                             |
| Display                                                                                      | 5.7 in LCD display with a projected capacitance touchscreen                                                                                                                                                                                                          |
| Dimensions                                                                                   | Main Unit and Smart Remote: 2.625 in x 5.25 in x 11.0 in (6.67 cm x 13.33 cm x 27.94 cm)                                                                                                                                                                             |
| Weight                                                                                       | 3 lbs (1.36 kg)                                                                                                                                                                                                                                                      |
| Battery                                                                                      | Lithium ion battery pack, 7.2 V                                                                                                                                                                                                                                      |

|                     |                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Battery Life        | 8 hours, typical                                                                                                                           |
| Battery Charge Time | 4 hours (below 40° C, with tester off)                                                                                                     |
| Languages supported | English, French, German, Italian, Japanese, Portuguese, Spanish, Chinese, Korean, Russian, Trad Chinese, Czech, Polish, Swedish, Hungarian |
| Calibration         | Service center calibration period is 1 year                                                                                                |
| Integrated Wi-Fi    | Meets IEEE 802.11 a/b/g/n; dual band (2.4 GHz and 5 GHz)                                                                                   |

| <b>Environmental Specifications</b>                     |                                                                                         |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Operating temperature                                   | 32° F to 113° F (0° C to 45° C)                                                         |
| Storage temperature                                     | -22° F to +140° F (-30° C to +60° C)                                                    |
| Operating relative humidity (% RH without condensation) | 0% to 90%, 32° F to 95° F: (0° C to 35° C) 0% to 70%, 95° F to 113° F: (35° C to 45° C) |
| Vibration                                               | Random, 2 g, 5 Hz -500 Hz                                                               |
| Shock                                                   | 1 m drop test with and without module and adapter attached                              |
| Safety                                                  | CSA 22.2 No. 61010, IEC 61010-1 3rd Edition                                             |
| Altitude                                                | 13,123 ft (4,000 m) 10,500 ft (3,200 m) with ac adapter                                 |
| EMC                                                     | EN 61326-1: Portable                                                                    |

## About Fluke Networks

Fluke Networks is the worldwide leader in certification, troubleshooting, and installation tools for professionals who install and maintain critical network cabling infrastructure. From installing the most advanced data centers to restoring service in the worst weather, our combination of legendary reliability and unmatched performance ensure jobs are done efficiently. The company's flagship products include the innovative LinkWare™ Live, the world's leading cloud-connected cable certification solution with over fourteen million results uploaded to date.

1-800-283-5853 (US & Canada)

1-425-446-5500 (International)

<http://www.flukenetworks.com>

Descriptions, information, and viability of the information contained in this document are subject to change without notice.

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