

Versiv™ Series

Cabling Certification Product Family

Safety Information



1-Year Limited Warranty.
See the Users Manual for the full warranty.

Fluke Corporation operates worldwide. For local contact information, go to our website: www.flukenetworks.com

+1-425-446-5500 info@flukenetworks.com

To register your product, or to view, print, or download the latest manual or manual supplement, go to our website.

The ac adapter, battery, laser, and wireless warnings, symbols, and specifications apply based on the model features.

This document applies to the items below (the Product).

- Versiv 2 main and remote
- DSX-602 main and remote

Versiv 2 compatible modules:

- DSX-5000/DSX-8000 CableAnalyzer™ modules (DSX-5000/DSX-8000)
- CertiFiber™ Pro OLTS Quad, Singlemode (SM), and Multimode (MM) modules (CertiFiber Pro)
- CertiFiber™ Max Singlemode (SM) module (CertiFiber Max). The CertiFiber Max is only compatible with a Versiv 2 main or remote.



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Fluke Corporation
6920 Seaway Blvd
Everett WA 98203
U.S.A.

Fluke Europe B.V.
P.O. Box 1186
5602 BD Eindhoven
The Netherlands

- OptiFiber™ Pro OTDR Quad, Singlemode (SM), and Multimode (MM) modules (OptiFiber Pro)
- OptiFiber™ Pro HDR OTDR Singlemode (SM) modules (OptiFiber Pro HDR)
- FI2-7000/FI2-7000-NW and FI2-7300/FI-7300-NW blank modules

Video probes compatible with a main:

- FI-1000 FiberInspector™ Pro video probe (FI-1000)
- FI-3000/FI-3000-NW FiberInspector Ultra (FI-3000/FI-3000-NW). The FI-3000 can also be used with the FI-IN™ or FIIN™ app.

Safety Information

A **Warning** identifies hazardous conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

Warning




To prevent possible electrical shock, fire, or personal injury:





- **Read all safety information before you use the Product.**
- **Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.**
- **Use the Product only as specified or hazardous laser radiation exposure can occur.**
- **Carefully read all instructions.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Do not use the Product if it is altered or damaged.**
- **Do not use the Product if it operates incorrectly.**
- **Do not connect the Product to telephony inputs, systems, or equipment, including ISDN inputs. This can cause a potential shock hazard to a user and can damage the Product.**
- **Do not look into the laser. Do not point laser directly at persons or animals or indirectly off reflective surfaces.**
- **Do not look directly into optical connectors. Some optical equipment emits invisible radiation that can cause permanent damage to your eyes.**
- **Do not look directly into the laser with optical tools (for example, binoculars, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eye.**

- **When you inspect fiber endfaces, use only magnification devices that have the correct filters.**
- **Cover the output ports with a dust cap or attach a test reference cord to the output ports. The output ports can emit radiation even when you do not do a test.**
- **Do not do a test that activates an output port on the Product unless a fiber is attached to the output port.**
- **Use only Fluke approved power adapters to supply power to the Product or to charge the battery.**
- **Charge the battery indoors.**
- **Do not put battery cells and battery packs near heat or fire. Do not put in sunlight.**
- **Disconnect the battery charger and move the Product or battery to a cool, non-flammable location if the rechargeable battery becomes hot (>50 °C) during the charge period.**
- **Do not short the battery terminals together.**
- **Do not disassemble or crush battery cells and battery packs.**
- **Batteries contain hazardous chemicals that can cause burns or explode. If exposure to chemicals occurs, clean with water and get medical aid.**
- **The battery door must be closed and locked before you operate the Product.**
- **Remove the input signals before you clean the Product.**
- **Have an approved technician repair the Product.**
- **Use only specified replacement parts.**
- **Do not open the Product. The laser beam is dangerous to the eyes. Have the Product repaired only through an approved technical site.**

Symbols

The table below lists the symbols that can be used on the Product or in this document.

Symbol	Description
	Consult user documentation.
	WARNING. LASER RADIATION. Risk of eye damage.
	WARNING. RISK OF DANGER.
CE	Conforms to European Union directives.

Symbol	Description
	<p>This Product contains a lithium-ion battery. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler per local regulations. Contact your authorized Fluke Service Center for recycling information.</p>
	<p>This product complies with the WEEE Directive and its marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Do not dispose of this product as unsorted municipal waste. For information about take-back and recycling programs available in your country, see the Fluke website.</p>
	<p>Indicates a Class 1 laser. The following text may appear with the symbol on the product label: "IEC/EN 60825-1 Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019." In addition, the following pattern on the label will indicate wavelength and optical power: $\lambda = xxxnm, x.xxmW$</p>
	<p>Indicates a Class 2 laser. DO NOT STARE INTO BEAM The following text may appear with the symbol on the product label: "IEC/EN 60825-1:2014. Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019." In addition, the following pattern on the label will indicate wavelength and optical power: $\lambda = xxxnm, x.xxmW$.</p>

General Specifications

Unless otherwise stated, a main or remote can be a Versiv 2/DSX-602 main or remote (main/remote). When you use a battery or video probe with a main/remote, the most restrictive specifications apply.

For information about the replaceable battery for a main/remote, see the MBP-LION/VERSIV-BATTERY Safety Information on our website.

Unless otherwise stated, specifications for modules with more than one model (example: Quad, SM, or MM) apply to all models.

Unless otherwise noted, specifications apply at 23 °C (73 °F).

Size	
DSX-602 main/remote	261 mm x 135 mm x 66 mm (10.28 in x 5.31 in x 2.61 in)
Versiv 2 main/remote without module	261 mm x 135 mm x 63 mm (10.28 in x 5.31 in x 2.47 in),
Versiv 2 main/remote with module:	
DSX-5000/DSX-8000, FI-7000/FI-7000-NW, FI-7300/FI-7300-NW	261 mm x 135 mm x 66 mm (10.28 in x 5.31 in x 2.61 in)
CertiFiber Pro/ CertiFiber Max, OptiFiber Pro/ OptiFiber Pro HDR	284 mm x 135 mm x 66 mm (11.20 in x 5.31 in x 2.61 in)
FI-1000	1175 mm x 35 mm (6.75 in x 1.5 in), without the adapter tip
FI-3000/FI-3000-NW	188 mm x 172 mm x 53 mm (7.40 in x 6.75 in x 2.10 in), with the dust cap
Weight	
DSX-602 main	1371 g (3.02 lb)
DSX-602 remote	1113 g (2.45 lb)
Versiv 2 main	1030 g (2.28 lb)
Versiv 2 remote	780 g (1.75 lb)
DSX-5000/DSX-8000	318 g (0.70 lb)
CertiFiber Pro	473 g (1.45 lb)
CertiFiber Max	567 g (1.25 lb)
OptiFiber Pro	462 g (1.9 lb)
OptiFiber Pro HDR	398 g (0.88 lb)
FI-7000/FI-7000-NW FI-7300/FI-7300-NW	191 g (0.42 lb)
FI-1000	198 g (0.44 lb)
FI-3000/FI-3000-NW	332 g (0.73 lb)
Ac adapter	Class II
Input	100 V ac to 240 V ac \pm 10 %, 50/60 Hz
Output	15 V dc, 2 A max

Battery	
Main/remote	
Type	Lithium-ion, 39 Wh, 7.2 V, 5.4 Ah, Configuration 2ICR19/66-2
Life	8 hr, typical
Charge time	From 10 % capacity to 90 % capacity: 4 hr with main or remote off 6 hr with main or remote on
FI-3000/FI-3000-NW	
Type	Lithium-ion, 3.6 V, 6.4 Ah
Life	10.8 hr, typical
Operating Temperature	
<i>Note</i>	
<i>For the OptiFiber Pro module, the operating temperatures below apply when the Real Time Trace function is used for ≤5 min in a 15-minute period. For continuous use of the Real Time Trace function, the maximum ambient temperature is 35 °C (95 °F).</i>	
With ac adapter	0 °C to 45 °C (32 °F to 113 °F), DSX-602 main/remote, Versiv 2 main/remote with any module, video probes -10 °C to 45 °C (14 °F to 113 °F), FI-3000 with the app
With battery	0 °C to 45 °C (32 °F to 113 °F), DSX-602 main/remote, Versiv 2 main/remote with DSX-5000/DSX-8000 module, FI-1000 -10 °C to 45 °C (14 °F to 113 °F), Versiv 2 main/remote with all other modules, FI-3000/FI-3000-NW
Storage Temperature	
Main/remote	
With battery	-10 °C to 45 °C (14 °F to 113 °F), 20 % to 85 % RH, non-condensing
Without battery	-30 °C to 60 °C (-22 °F to 140 °F), 20 % to 85 % RH, non-condensing
FI-1000	-20 °C to 70 °C (-4 °F to 158 °F)
FI-3000/FI-3000-NW	-10 °C to 60 °C (14 °F to 140 °F)
Charging temperature	0 °C to 40 °C (32 °F to 104 °F)

Operating relative humidity	0 % to 90 %, 0 °C to 35 °C (32 °F to 95 °F) 0 % to 70 %, 35 °C to 45 °C (95 °F to 113 °F) Uncontrolled: <0 °C, non-condensing	
Operating altitude	3200 m (10 500 ft), with ac adapter 4000 m (13 123 ft), with battery	
Storage altitude	12 000 m (39 370 ft)	
Wireless radio		
<i>Note</i>		
<i>Remotes do not support Wi-Fi. Not all mains support Wi-Fi.</i>		
For complete information about radio frequency data, go to www.fluke.com/manuals and search for <i>Radio Frequency Data Class A</i> .		
Main with an internal Wi-Fi card		
China	Frequency range	Output power
WLAN	2400 MHz to 2483.5 MHz 5150 MHz to 5350 MHz 5725 MHz to 5850 MHz	≤20 dBm (EIRP) ≤23 dBm (EIRP) ≤30 dBm (EIRP)
All other locales	2412 MHz to 2484 MHz 4910 MHz to 5825 MHz	≤20 dBm (EIRP) ≤30 dBm (EIRP)
FI-3000	2400 MHz to 2483.5 MHz	≤20 dBm (EIRP)
Laser	IEC 60825-1: Class 1, Class 2	
Type	VFL	
Max output power	650 nm	
Wavelength	<1 mW	
Safety	IEC 61010-1, Pollution degree 2	

Electromagnetic Compatibility (EMC)

International IEC 61326-1: Basic Electromagnetic Environment, CISPR 11: Group 1, Class A

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.

Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Korea (KCC) Class A Equipment (Industrial Broadcasting & Communication Equipment)

Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

USA (FCC) 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.

Documentation and Software Licensing Notice

CDs or other computer media are no longer included in the box.

For user documentation, go to www.flukenetworks.com/products.

For products containing software licensed under the *GNU General Public License (GPL)* or *Lesser GNU General Public License (LGPL)*, the complete corresponding sources are available. You can order a complete machine-readable copy of the source code from Fluke Corporation for a period of three (3) years after receipt of the product. Send a written request to:

Open Source Request
Fluke Corporation
6920 Seaway Blvd
Everett, WA 98203

Please include:

- Your full name
- Your company name
- Product model, serial number, and software revision level
- Your return mailing address
- Your email address (if available)

NOTE: Fluke may charge a fee to cover the cost of this distribution. This offer is valid to anyone in receipt of this information.

Download the latest version of the software licensing information and Open Source files at <https://www.flukenetworks.com/support/downloads>.

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Fluke declares that the radio equipment contained in this Product is in compliance with Directive 2014/53/EU. The full text of the EU declaration is available at the following internet address: www.fluke.com/red.