

VIAVI OneExpert DSP

Installation/service meter with ONX DNA, making it unequalled in speed, simplicity and value. The OneExpert DSP (ONX-220) is fast, complete, and follows up testing with simple cloud data storage to enable real-time close-out and reporting.

- Most powerful meter in this price range
- Fast, complete, and precise analog and digital signal measurements, including DOCSIS 3.1 OFDM, with a fast boot time, location-based auto tests, and auto-channel plans
- Powerful processing for faster measurements and complete autotest results in less than two minutes
- Complete measurement dashboards with simple Pass/Fail results for novice technicians and ability to drill down for more detailed measurement results
- Works right out-of-the-box with each unit being factory synced to the customer's StrataSync account, so any configurations and limits are automatically configured upon arrival
- · Gigabit Ethernet, DOCSIS, and WiFi throughput testing
- Wireless (802.11 ac 2.4/5 GHz with 3x3 MIMO) survey with signal strength, SSID, channels, security, MAC, and protocols.
- Expandable to perform optical power measurements, fiber optic end face inspection to ensure clean connections

KEY FEATURES

- AutoChannel instantaneous channel lineup detection eliminates need for lineup editing, updating and deploying
- OneCheck comprehensive mistakeproof automated tests, including: ingress, downstream channels and DOCSIS carriers at three demarcation points (Tap, GB, CPE)
- DOCSISCheck real-time analysis and powerful DOCSIS carrier and data service troubleshooting; upstream and/or downstream
- ChannelCheck real-time analysis and powerful downstream QAM, OFDM, and Analog carriers troubleshooting
- DQI (Digital Quality Index) focuses on raw information condition on the physical path, immediately detects intermittent and sustained issues within the stream
- Integrated Bluetooth connectivity enables leveraging mobile device GPS and multimedia capabilities with VIAVI Android/iOS Mobile Tech App
- Ready for high-speed Gigabit Ethernet and DOCSIS and WiFi* service testing, unavailable with other low-cost competing products
- Compatible with P5000i optical inspection scope, MP-60/80 optical power meter

^{*} Network service testing is included only on Advanced and Pro models.







OneCheck dashboard simplifies indentifying RF issues



SPECIFICATIONS

FREQUENCY			
Range	Diplexer	Upstream	Downstream
Automatically Switching	42/85	4 - 42 MHz and 4 - 85 MHz	54 - 1,004 MHz and 108 - 1,218 MHz
Diplexer	65/204	4 - 65 MHz and 4 - 204 MHz	83 - 1,218 MHz and 258 MHz - 1,218 MH
Accuracy		typical @25°C	, , , , ,
DOWNSTREAM ANALYS			
AutoChannel plan builder		Auto detection of channel para	meters (analog/digital, symbols, QAM)
Max input power		38 dBmV total integrated power	
Power detection/notification	on	Notify of AC/DC power present	e above 2 Volts
Return loss		>6 dB	
JPSTREAM ANALYSIS			
ngress spectrum scan		0.5 – 204 MHz	
Sensitivity		-38 dBmV	
RBW		300 kHz	
Min detectable level upstr	ream	-38 dBmV	
Accuracy		±2 dB typical at 25°C	
Sampling rate			s technology - no missed samples, spans 0.5
Sampling rate		110 MHz, 110 to 160 MHz, and	160 to 204 MHz
Return loss		>6 dB	
ANALOG CHANNEL MEA		IT	
ideo and audio levels (dual)	T	
Standards		NTSC, PAL	
Min detectable signal		-50 dBmV (single channel)	
evel accuracy			dBmV typical at 25°C; ±2.0 dB, -10°C to
		+50°C	
RBW		300 kHz	
Carrier to Noise		LUTOO DAI	
Channel types		NTSC , PAL, non-scrambled	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Range		30 to 51 dB (NTSC, 4 MHz mea	asurement bandwidth)
Required input level			channels present, maximum ±15 dB tilt 50 to
<u> </u>		1,000 MHz	romant roads
Accuracy		±2.0 dB within specified measu ≤ 600 MHz	rement range
DOWNSTREAM DIGITAL	CHANNEL		
Calibrated power levels	OHAMILE	-20 dBmV to +15 dBmV	
			dBmV typical at 25°C; ±2.0 dB, -10°C to +50°
		11.0 ab 110111 20 ab1111 to 110	<u>abilit typical at 20 0, 12:0 ab, 10 0 to 100 </u>
Level accuracy		64, 128, and 256 QAM, OFDM	
Level accuracy Modulation(s)	MSPS	64, 128, and 256 QAM, OFDM	
Level accuracy Modulation(s) Annex A: 5.057 to 6.952 N			
Level accuracy Modulation(s) Annex A: 5.057 to 6.952 N Annex B: 5.057 for 64 QA	M and 5.36	1 MSPS for 256 QAM	
Level accuracy Modulation(s) Annex A: 5.057 to 6.952 N Annex B: 5.057 for 64 QA Annex C: 5.274 MSPS for	M and 5.36		
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Level accuracy Modulation(s) Annex A: 5.057 to 6.952 Mannex B: 5.057 for 64 QA Annex C: 5.274 MSPS for Full span MER Ingress under carrier — for Group delay and in-chann Group delay and in-chann Group delay and group delay	M and 5.36 64 QAM and full span ingoingle frequency over time seconds	11 MSPS for 256 QAM and 5.361 MSPS for 256 QAM ress noise trace by response (ICFR) requency, modulation, interleave 25 Hz to 1000 Hz 33 dB +/- 0.8%	ver depth
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Compliant with CableLabs® specifications for DOCSIS 3.0 (32x8 bonding)

Compliant with CableLabs® specifications for DOCSIS 3.1

channels

Supports DOCSIS 3.1 bonding up to 32 SC-QAM + 2 OFDM downstream channels, 8 SC-QAM + 2 OFDMA upstream



DISPLAYED DOCSIS RESULTS	Number of bonded channels, min receive level, max BER (pre-FEC), min and
Top level	max MER, max transmit level, max ICFR (in-channel frequency response)
Details	Downstream SC-QAM (over time charts: level, MER, BER, DQI), Upstream
Details	(charts: transmit over time, upstream ICFR, upstream EQ taps
Service tests	Registration, Throughput, Ping/Traceroute, Packet Quality; cable modem
	pass-through OFDM selected in scan, number of subcarriers, PLC lock status, frequency,
	level, and MER, CWE (corr, uncorr); OFDM channel(s) - Level variation (max
OFDM	min, avg), MER variation (max, min, avg), ICFR, profile analysis (locked,
	CWE corr, CWE uncorr)
DOWNSTREAM	54/85/108/258 to 1,000/1,218 MHz (dependent on currently active diplexer
Frequency range	frequency)
UPSTREAM	inequency)
Frequency range	5 to 204 MHz (dependent on currently active diplexer frequency)
OFDMA channels	≥2, per DOCSIS specification
Transmit level range (max)	+61 to +48 dBmV depending on modulation format and number of bonded
SC-QAM channels	carriers, per DOCSIS specification up to 8 per DOCSIS specification
MER	up to 8 per DOC313 specification
Specified range ¹ (with input level -	24 to 40 dD 04 04M, 20 to 40 dD 250 04M, 40 to 10 050 0
5 to +15 dBmV)	21 to 40 dB, 64 QAM; 28 to 40 dB,256 QAM; 16 to 44 dB OFDM
Max displayable range	50 dB
Resolution	0.1 dB
Accuracy	±2 dB typical at 25°C
Minimum lock level BER — ChannelCheck and	−15 dBmV
DOCSISCheck mode	Down to 1E-9 (pre and post FEC)
BER — OneCheck mode	Down to 1E-8 (pre and post FEC) default; 1E-9 user selectable
Interleaver depth	128, 8 max
DISPLAY/INTERFACE/USABILITY	
High-brightness color LCD (800 x 480)	5 inch diagonal
Touch screen	Capacitive
Hard key navigation capable	Capacitive
Boot time	Approximately 20 sec
ENVIRONMENTAL	
For indoor/outdoor use	IP 54 light rain (0.5 in/hr;1.27 cm/hr)
Pollution	2°
Drop	1 m (3.3 ft) onto concrete
Temp range	Operating -10 to 50°C (14 to 122°F)
Humidity	Storage temp -20 to 60°C (-4 to 140°F) 10 - 90% RH non-condensing
RF immunity	8.5 V/m (for CATV measurements)
Maximum altitude	4000 m (13,123 ft)
INPUT/OUTPUTS	1000 m (10) 120 m)
	F connector replaceable
RF	Downstream 54/85/108/258 MHz depending on diplexer
	Upstream 4 – 204 MHz
Charge Port	USB-C
USB Port Ethernet	USB 2.0 (Type A) RJ45 10/100/1000T
Power	USB-C
	**- *
VNC accessible via IP address	(
HTTPS file access via IP address	
Mobile application via Bluetooth	
BATTERY	
Field replaceable 48 W/hr 10.4 V,	
4-cell Lilon Typical battery life	8 hr typical usage
Battery charge time	8 hr typical usage 4 Hrs (90%) 6 - 8 Hrs 100% (AC charger)
STRATASYNC REPORTING CAPA	
Session based (job/work order) file	saving of results gathered at TAP, GB, and CPE
Measurement screen capture save	and recall
StrataSync Core	Asset and data management Optional extended data management (6 years)



Width 5.27 in (133.88 mm) Height 9.96 in (252.89 mm) Depth 2.23 in (57.33 mm) WEIGHT Device (without protective case) 7.10 ib (0.50 kg) WIFI (PLUS & PRO MODELS ONLY) Test interface 802.11 a/b/g/n/ac (2.4/5 GHz) Tests WiFi scan Scan results WiFi scan Scan modes Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter MP-60, MP-80, FI-60 Fiber Identifier Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source USB optical poss/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Pass/fail Results for zone defects Pass/fail Results for zone defects Pass/fail Results for zone defects Pass/fail Low mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection	WARRANTY	
Accessories and battery DIMENSIONS Width	Instrument	1-year warranty (See http://www.viavisolutions.com/services-
Width 5.27 in (133.88 mm) Height 9.96 in (252.89 mm) Depth 2.23 in (57.33 mm) WEIGHT Device (without protective case) 1.10 lb (0.50 kg) WIFI (PLUS & PRO MODELS ONLY) Test interface 802.11 a/b/g/n/ac (2.4/5 GHz) Test interface SSID (secure set identification); Channel; Security setting; Power level; MAC address Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter MP-60, MP-80, FI-60 Fiber Identifier Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Power source Setting for profile, tip, focus meter, button action		
Width 5.27 in (133.88 mm) Height 9.96 in (252.89 mm) Depth 2.23 in (57.33 mm) WEIGHT Device (without protective case) 3.10 lb (1.41 kg) Protective case and shoulder strap MIFI (PLUS & PRO MODELS ONLY) Test interface 802.11 a/b/g/n/ac (2.4/5 GHz) WIFI scan Scan modes Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter MP-60, MP-80, FI-60 Fiber Identifier Min/max/average optical power level and wavelength dBm, mW Connector input Universal 2.5 and 1.25 mm connectors USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Power source USB port Setting for profile, tip, focus meter, button action	Accessories and battery	One-year warranty
Height 9.96 in (252.89 mm) Depth 2.23 in (57.33 mm) WEIGHT Device (without protective case) 3.10 lb (1.41 kg) Protective case and shoulder strap 1.10 lb (0.50 kg) WIFI (PLUS & PRO MODELS ONLY) Test interface 802.11 a/b/g/n/ac (2.4/5 GHz) Tests SSID (secure set identification); Channel; Security setting; Power level; MAC address Scan modes Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Dever source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Power source Setting for profile, tip, focus meter, button action	DIMENSIONS	
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Device (without protective case) Protective case and shoulder strap Protective case and shoulder strap 1.10 lb (0.50 kg) WiFi (PLUS & PRO MODELS ONLY) Test interface Tests Scan results Scan results Scan results Scan modes Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Power source Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Pass/fail Low mag field-ofview (FOV) High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Power source Setting for profile, tip, focus meter, button action	Depth	2.23 in (57.33 mm)
Protective case and shoulder strap WIFI (PLUS & PRO MODELS ONLY) Test interface Tests Scan results Scan results Scan modes FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Connector input Connector input Description Universal 2.5 and 1.25 mm connectors Belectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone defects Results for zone caractnes Low mag field-ofview (FOV) Particle size detection Power source Setting for profile, tip, focus meter, button action 1.10 lb (0.50 kg) 40 (2.4/5 GHz) WiFi scan S02.11 a/b/g/n/ac (2.4/5 GHz) WiFi scan S02.41 sollyg/n/ac (2.4/5 GHz) WiFi scan S03.11 a/b/g/n/ac (2.4/5 GHz) WiFi scan S04.41 sollyg/n/ac (2.4/5 GHz) WiFi scan S04.41 sollyg	WEIGHT	
WIFI (PLUS & PRO MODELS ONLY) Test interface 302.11 a/b/g/n/ac (2.4/5 GHz) Tests WiFi scan Scan results SSID (secure set identification); Channel; Security setting; Power level; MAC address Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter MP-60, MP-80, FI-60 Fiber Identifier Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection 41 µm Power source USB port Setting for profile, tip, focus meter, button action	Device (without protective case)	3.10 lb (1.41 kg)
Test interface Tests Scan results Scan results SSID (secure set identification); Channel; Security setting; Power level; MAC address Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	Protective case and shoulder strap	1.10 lb (0.50 kg)
Tests WiFi scan Scan results SSID (secure set identification); Channel; Security setting; Power level; MAC address Scan modes Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter MP-60, MP-80, FI-60 Fiber Identifier Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection <1 µm Power source Setting for profile, tip, focus meter, button action	WIFI (PLUS & PRO MODELS ONLY)	
SSID (secure set identification); Channel; Security setting; Power level; MAC address Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Power source Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Power source Setting for profile, tip, focus meter, button action	Test interface	802.11 a/b/g/n/ac (2.4/5 GHz)
Scan results Scan modes Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source Setting for profile, tip, focus meter, button action	Tests	
MAC address Channel graph; Time graph FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Value Value Value Va	Scan recults	SSID (secure set identification); Channel; Security setting; Power level;
FIBER TEST Optical Fiber Power Meter USB optical power meter Min/max/average optical power level and wavelength Connector input Power source Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Low mag field-ofview (FOV) Harizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Power source USB port Setting for profile, tip, focus meter, button action		
Optical Fiber Power Meter USB optical power meter MP-60, MP-80, FI-60 Fiber Identifier Min/max/average optical power level and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection <1 µm Power source USB port Setting for profile, tip, focus meter, button action	Scan modes	Channel graph; Time graph
USB optical power meter Min/max/average optical power level and wavelength Connector input Connector input Connector input Universal 2.5 and 1.25 mm connectors USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	FIBER TEST	
Min/max/average optical power level and wavelength Connector input Connector input Universal 2.5 and 1.25 mm connectors USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	Optical Fiber Power Meter	
and wavelength Connector input Universal 2.5 and 1.25 mm connectors Power source Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	USB optical power meter	MP-60, MP-80, FI-60 Fiber Identifier
Connector input Universal 2.5 and 1.25 mm connectors Power source USB port Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection < 1 µm Power source USB port Setting for profile, tip, focus meter, button action	Min/max/average optical power level	dPm_mW
Power source Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope Results for zone defects Results for zone scratches Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port USB port	and wavelength	ubili, iliv
Selectable pass/fail threshold Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection <1 µm Power source USB port Setting for profile, tip, focus meter, button action	Connector input	
Signal QoS Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection <1 µm Power source USB port Setting for profile, tip, focus meter, button action	Power source	USB port
Reference value OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection <1 µm Power source USB port Setting for profile, tip, focus meter, button action	Selectable pass/fail threshold	
OPTICAL FIBER SCOPE USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection <1 µm Power source USB port Setting for profile, tip, focus meter, button action	Signal QoS	
USB optical fiber scope P5000i Results for zone defects Pass/fail Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection <1 µm Power source USB port Setting for profile, tip, focus meter, button action	Reference value	
Results for zone defects Results for zone scratches Pass/fail Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	OPTICAL FIBER SCOPE	
Results for zone scratches Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	USB optical fiber scope	P5000i
Low mag field-ofview (FOV) Horizontal 740 µm, vertical 550 µm High mag field-ofview (FOV) Horizontal 370 µm, vertical 275 µm Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	Results for zone defects	Pass/fail
High mag field-ofview (FOV) Particle size detection Power source USB port Setting for profile, tip, focus meter, button action	Results for zone scratches	Pass/fail
Particle size detection <1 µm Power source USB port Setting for profile, tip, focus meter, button action	Low mag field-ofview (FOV)	Horizontal 740 µm, vertical 550 µm
Power source USB port Setting for profile, tip, focus meter, button action	High mag field-ofview (FOV)	Horizontal 370 μm, vertical 275 μm
Setting for profile, tip, focus meter, button action	Particle size detection	
	Power source	
Actions for live mode, test mode, high magnification		
	Actions for live mode, test mode, high	magnification
	Probe model, serial, firmware	
STANDARD ACCESSORIES	STANDARD ACCESSORIES	
Protective case with hand strap and detachable shoulder strap	Protective case with hand strap and d	letachable shoulder strap
AC power supply with choice of country-specific adaptor plug (USA, UK, Euro, Australia, China)	AC power supply with choice of count	ry-specific adaptor plug (USA, UK, Euro, Australia, China)
	Quick start guide	
	StrataSync Core support	

ORDERING INFORMATION

DESCRIPTION		PART NUMBER
ONX-220 Packages	Dual Diplexer	Model
Base	42/85 MHz 65/204 MHz	ONX-220-42-85-D31-BASE ONX-220-65-204-D31-BASE
Plus	42/85 MHz 65/204 MHz	ONX-220-42-85-D31-PLUS ONX-220-65-204-D31-PLUS
Pro	42/85 MHz 65/204 MHz	ONX-220-42-85-D31-PRO ONX-220-65-204-D31-PRO
OPTIONS		
Home Leakage Software Optio HL Leakage Test Kit	n	ONX-DSP-SW-OPT-HL-LKG TRI-LKG-HL-METER-KIT
Source Transmitter Frequency-Domain Reflectome		ONX-DSP-SW-OPT-SRC ONX-DSP-SW-OPT-FDR
BRONZE AND SILVER WARR	ANTY EXTENSIONS	
Three-Year Warranty Five-Year Warranty Three-Year Warranty and One Five-Year Warranty and Two C		BRONZE-3 BRONZE-5 SILVER-3 SILVER-5



OPTIONAL ACCESSORIES	
OneExpert DSP - Fitted Case	ONX-DSP-FITTED-CASE
AC USB-C 45W Power Adapter with International Power Plugs	PWR-ADPT-WALL-AC-USBC-45W
DC USB-C 45W Vehicle Power Adapter	PWR-ADPT-VEH-DC-USBC-45W
USB-A to USB-C Charging Cable	PWR-CBL-DC-USBA-USBC
Strand Hook	1019-00-1366
Replacement Screen Protector (5 Pack)	ONX-SCREEN-PROTECTION
Large Accessory Bag	ONX-CATV-DLX-ACCY-KIT
MP-80 USB Optical Power Meter	MP-80A
MP-60 USB Optical Power Meter	MP-60A
P5000i USB Fiber Scope	FBP-P5000I

ONX-220 FEATURE MATRIX

ONECHECK - DASHBOARD		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Ingress Scan			
Downstream Summary			
DOCSIS Summary			
ONECHECK - DOWNSTREAM DETAILS			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Full Channel Scan			
Basic Channel Details - Level, MER, BER, C/N			
Advanced Channel Details - Echo, GD, ICFR			
System View - Max dB Delta, Max Video Delta			
Favorites (up to 16 Channels)			
Tilt			
Off-Air Ingress Detection (Downstream IUC)			
MER & BER Graph (All Channels)			
Smart Scan			
ONECHECK - DOCSIS DETAILS			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Downstream DOCSIS Channel Scan			
Basic Downstream Channel Details - Level, MER, BER, C/N			
Advanced Downstream Channel Details - Echo, GD, ICFR			
Upstream DOCSIS Channel Scan			
Basic Upstream Channel Details - Tx Level, Modulation Type			
Advanced Upstream Channel Details – ICFR			
DOCSIS Throughput			
DOCSIS Packet Quality			

CHANNELCHECK			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Full Channel Scan			
Basic Channel Details - Level, MER, BER, C/N	-		
Advanced Channel Details - Echo, GD, ICFR			
System View - Max dB Delta, Max Video Delta	-		
Favorites (up to 16 Channels)	-		
Tilt	-		
DQI Over Time			
Level Over Time			
MER Over Time			
BER Over Time			
Downstream ICFR			
Downstream IUC			
SmartScan			
Constellation	-		



DOCSISCHECK			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Downstream DOCSIS Channel Scan			
Basic Downstream Channel Details - Level, MER, BER, C/N			
Advanced Downstream Channel Details - Echo, GD, ICFR			
DQI Over Time			
Level Over Time			
MER Over Time			
BER Over Time with ES/SES			
Downstream ICFR			
Downstream IUC			
Upstream DOCSIS Channel Scan	-		
Basic Upstream Channel Details - Tx Level, Modulation Type			
Advanced Upstream Channel Details – ICFR			
Transmit Over Time			
Upstream ICFR			
Speed Check – Throughput			
Packet Quality - Packet Loss, Round Trip Delay, Jitter			
Ping & Traceroute			
Pass Through Modem RJ-45 Port			

SERVICE TROUBLESHOOTING MODES			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Return Signal Generator (Transmit up to 8 CW or QAM Signals)	Option	Option	Option
HomeFDR	Option	Option	Option
Home Leakage Test	Option	Option	Option
SmartID Support			

NETWORK CONNECTIVITY MODES			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
DOCSIS Cable Modem			
Pass Through Modem RJ-45 Port			
Ethernet			
WiFi		-	
Bluetooth			
Mobile App Integration			

		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Automatic SC QAM Signal Detection, Identification, and Measurement in Scan			-
Bonding Verification – SC QAM (32 x 8)			
Basic Downstream Channel Details - Level, MER, BER, C/N			
Advanced Downstream Channel Details – Echo, GD, ICFR			
Basic Upstream Channel Details Tx Level, Modulation Type			
Advanced Upstream Channel Details – ICFR			
Web Browser			
Ping & Trace Route			
FTP/HTTP Upload/Download			
Speed Check - Throughput			
Speedtest (Ookla)			
TrueSpeed		Option	Option



DOCSIS 3.1 TESTING			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
Automatic SC QAM Signal Detection, Identification, and Measurement in Scan	Option	Option	Option
Bonding Verification SC QAM (32 x 8) and OFDM (2 x 2)	Option	Option	Option
OFDM Signal Level Variation - Min/Avg/Max	Option	Option	Option
PLC - Detection, Lock Status, Level, MER, and CWE	Option	Option	Option
NCP - Lock Status and CWE	Option	Option	Option
Profile Analysis – Lock Status and CWE	Option	Option	Option
OFDM Ingress Under Carrier Analysis	Option	Option	Option
Web Browser			-
Ping & Trace Route			-
FTP/HTTP Upload/Download			-
Speed Check – Throughput			
Speedtest (Ookla)			-
TrueSpeed		Option	Option

ETHERNET TESTING					
		ONX-220			
Measurement Feature	BASE	PLUS	PRO		
Web Browser					
Ping & Trace Route					
FTP/HTTP Upload/Download					
Speed Check - Throughput					
Speedtest - Ookla					
TrueSpeed		Option	Option		

WIFI TESTING			
		ONX-220	
Measurement Feature	BASE	PLUS	PRO
2.4 & 5 GHz Network Scan			
Wireless Access Point			
WiFi Advisor Support SmartChannel Wizard & Coverage Expert			
Web Browser			
Ping & Trace Route			-
FTP/HTTP Upload/Download			
Speed Check – Throughput			
Speedtest - Ookla			
TrueSpeed		Option	Option
Wireless Client Scan & Device Finder	Option	Option	Option
Multi Channel Usage Scan	Option	Option	Option
Single Channel Usage Over Time	Option	Option	Option

FIBER OPTIC MODES					
		ONX-220			
Measurement Feature	BASE	PLUS	PRO		
Optical Fiber Scope Support – P5000i					
Optical Power Meter Support – MP 60/80					
SmartOTDR Support					