

OneExpert DSP (ONX-220)

Installation/service meter with ONX DNA, making it unequalled in speed, simplicity and value.

When home network quality is unreliable, customers become dissatisfied and are more likely to churn. At the same time technical complexity is increasing, but technician skill and experience at the installation service tier is typically minimal. It's never been more important to have quick, effective troubleshooting tools that enable techs to quickly and efficiently verify performance as advertised. The ONX-220 is fast, complete, and follows up testing with simple cloud data storage to enable realtime close-out and reporting.

KEY BENEFITS

- Fastest and most comprehensive tool for verifying high speed DOCSIS service activation and performance
- Rugged build quality, workmanship, and reliability expected from VIAVI and our years of measurement experience
- Technicians now have access to a rugged, precise measurement instrument at a budget minded price
- Best balance of features, performance, and cost designed to meet the budgets of installers and contractors



KEY FEATURES

- AutoChannel[™] instantaneous channel lineup detection eliminates need for lineup editing, updating and deploying
- **OneCheck** comprehensive mistake-proof 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 multi-media 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
- **OneCheck Fiber** consolidates tests with P5000i and FiberChek Pro optical inspection scopes, SmartOTDR optical time domain reflectometer and MP60/80 optical power meter
- Certify home WiFi performance as part of a complete verification process and test coverage throughout the home, including throughput, airtime (traffic) and SNR with Advanced WiFi Option.

* Network service testing is included only on Plus and Pro models.

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Specifications

Frequency					
Range	Diplexer Upstream Downstream				
Automatically Switching Diplexer	42/85	42/85 5 - 42 MHz 54 - 1,004 and 5 - 85 MHz and 1 MHZ - 1,218 MH			
	65/204	5 - 65 MHz and 5 - 204 MHz			
Accuracy	±10 ppm typ	ical @25°C			
Downstream Ana	alysis				
AutoChannel plan builder	Auto detection of channel parameters (analog/digital, symbols, QAM)				
Max input power	38 dBmV total integrated power				
Return loss	>6 dB				
Upstream Analysis					
Ingress spectrum scan	5.0 – 204 MHz				
Sensitivity	-38 dBmV				
RBW	100 kHz				
Min detectable level upstream	-38 dBmV				
Accuracy	±2 dB typical at 25°C				
Return loss	>6 dB				

Analog Channel	Measurement			
Video and audio levels (dual)				
Standards	NTSC , PAL			
Min detectable signal	–50 dBmV (single channel)			
Level accuracy	\pm 1.5 dB from -20 dBmV to +15 dBmV typical at 25°C; \pm 2.0 dB, -10°C to +50°C			
RBW	300 kHz			
Carrier to Noise				
Channel types	NTSC , PAL, non-scrambled			
Range	30 to 51 dB (NTSC, 4 MHz measurement bandwidth)			
Required input level	0 to +15 dBmV with 77 analog channels present, maximum ±15 dB tilt 50 to 1,000 MHz			
Accuracy	± 2.0 dB within specified measurement range ≤ 600 MHz			
Downstream Digital Channel Analysis				
Distriction Dig	ital chamici Analysis			
Calibrated power levels	-20 dBmV to +15 dBmV			
Calibrated	-			
Calibrated power levels	-20 dBmV to +15 dBmV ±1.5 dB from -20 dBmV to +15 dBmV typical at 25°C; ±2.0 dB, -10°C to			
Calibrated power levels Level accuracy Modulation(s) Annex A: 5.057 to Annex B: 5.057 fo 256 QAM	-20 dBmV to +15 dBmV ±1.5 dB from -20 dBmV to +15 dBmV typical at 25°C; ±2.0 dB, -10°C to +50°C 64, 128, and 256 QAM, OFDM			
Calibrated power levels Level accuracy Modulation(s) Annex A: 5.057 to Annex B: 5.057 fo 256 QAM Annex C: 5.274 M	-20 dBmV to +15 dBmV ±1.5 dB from -20 dBmV to +15 dBmV typical at 25°C; ±2.0 dB, -10°C to +50°C 64, 128, and 256 QAM, OFDM 6.952 MSPS r 64 QAM and 5.361 MSPS for			
Calibrated power levels Level accuracy Modulation(s) Annex A: 5.057 to Annex B: 5.057 fo 256 QAM Annex C: 5.274 M 256 QAM Full span MER	-20 dBmV to +15 dBmV ±1.5 dB from -20 dBmV to +15 dBmV typical at 25°C; ±2.0 dB, -10°C to +50°C 64, 128, and 256 QAM, OFDM 6.952 MSPS r 64 QAM and 5.361 MSPS for			
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OFDM Channels	24 - 192 MHz wide - up to 3	
	active OFDM channels	
Laval many main		
Level — max, min, average, standard	Relative to a 6 MHz carrier per CableLabs	
deviation	CableLabs	
uernation		
MER — max,	16 to 44 dB	
min, average,		
standard deviation, percentile		
percentile		
MER channel band	max, min, avg across entire	
graph	OFDM carrier	
Noise	Max	
Echo	dBc	
ICFR	In-carrier frequency response (dB)	
Spectrum/IUC	Spectrum display, including carrier	
	and ingress under carrier	
OFDM Profile Analy	ysis	
Profiles A, B, C, D, N	CP, and PLC	
(more profiles as im		
Lock status, codewo		
(corrected and unco	rrected)	
DOCSIS Testing		
	1 bonding up to 32 SC-QAM + 2	
OFDM downstream channels, 8 SC-QAM + 2 OFDMA		
upstream channels		
Compliant with CableLabs® specifications for		
DOCSIS 3.1		
Compliant with CableLabs® specifications for		
DOCSIS 3.0 (32x8 bo		

Displayed DOCSIS	Results
Top level	Number of bonded channels, min receive level, max BER (pre-FEC), min and max MER, max transmit level, max ICFR (in-channel frequency response)
Details	Downstream SC-QAM (over time charts: level, MER, BER, DQI), Upstream (charts: transmit over time, upstream ICFR, upstream EQ taps
Service tests	Registration, Throughput, Ping/ Traceroute, Packet Quality; cable modem pass-through
OFDM	OFDM selected in scan, number of subcarriers, PLC lock status, frequency, level, and MER, CWE (corr, uncorr); OFDM channel(s) - Level variation (max, min, avg), MER variation (max, min, avg), ICFR, profile analysis (locked, CWE corr, CWE uncorr
Downstream	
Frequency range	42/65/85/204 to 1,218 MHz (dependent on currently active diplexer frequency
Upstream	
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 carriers, per DOCSIS specification
SC-QAM channels	Up to 8 per DOCSIS specification

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MER			
Specified range ¹ (with input level -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	–15 dBmV		
BER — ChannelCheck and 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/U	Jsability		
High-brightness color LCD (800 x 480)	5 inch diagonal		
Touch screen	Capacitive		
	Approximately 20 sec		
Boot time	Approximately 20 sec		
Boot time Environmental	Approximately 20 sec		
	Approximately 20 sec IP 54 light rain (0.5 in/hr; 1.27 cm/ hr)		
Environmental For indoor/outdoor	IP 54 light rain (0.5 in/hr; 1.27 cm/		
Environmental For indoor/outdoor use	IP 54 light rain (0.5 in/hr; 1.27 cm/ hr)		
Environmental For indoor/outdoor use Pollution	IP 54 light rain (0.5 in/hr; 1.27 cm/ hr) 2°		
Environmental For indoor/outdoor use Pollution Drop	IP 54 light rain (0.5 in/hr; 1.27 cm/ hr) 2° 1 m (3.3 ft) onto concrete Operating -10 to 50°C		
Environmental For indoor/outdoor use Pollution Drop	IP 54 light rain (0.5 in/hr; 1.27 cm/hr) 2° 1 m (3.3 ft) onto concrete Operating -10 to 50°C (14 to 122°F) Storage -20 to 60°C		
Environmental For indoor/outdoor use Pollution Drop Temp range	IP 54 light rain (0.5 in/hr; 1.27 cm/hr) 2° 1 m (3.3 ft) onto concrete Operating -10 to 50°C (14 to 122°F) Storage -20 to 60°C temp (-4 to 140°F)		

1. MER range declines as input levels decrease. Expected MER range at MIN LOCK level of $-15\ \text{dBmV}$

Input/Outputs			
RF	F connectors replaceable		
Charge Port	USB-C		
USB Port	USB 3.0 (Type A)		
Ethernet (2)	Rj45 10/100/1000T		
Power	USB-C		
Remote Access/Co	nnectivity		
VNC accessible via	IP address		
HTTPS file access vi	a IP address		
Mobile Tech applica	ation via Bluetooth		
Smart Access Anywhere (option) via IP network or the Internet, which can be via Ethernet, WiFi or mobile hot-spot			
Battery			
Field replaceable 48	3 WHr 7.4 V, 6-cell Lilon		
Typical battery life	8 hr typical usage		
Battery charge time	2 Hrs (90%) 3 Hrs 100% (included USB-C charger)		
StrataSync Report	ing Capability		
Session based (job, gathered at TAP, GB	/work order) file saving of results 8, and CPE		
Measurement screen capture save and recall			
StrataSync Core	Asset and data management		
StrataSync Plus	Optional extended data management (6 years)		
Warranty			
Instrument	1-year warranty		
Accessories and battery	One-year warranty		

MER			
Width	5.27 in (133.8	88 mm)	
Height	9.96 in (252.89 mm)		
Depth	2.23 in (57.33	3 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 and Pro M	/lodels Only)		
Test interface	802.11 a/b/g	J/n/ac (2.4/5 GHz)	
Tests	WiFi scan		
Antennas	3x3		
Scan results	SSID (secure set identification); Channel; Security setting; Power level; MAC address		
Scan modes	Channel graph; Time graph		
Advanced WiFi Opti	on		
Test Results	WiFi Expert (Passive Mode)	Up to 802.11 a/b/g/n/ac/ ax (WiFi 6 8x8) Signal strength (RSSI), Channel, Standard, Width, Channel Noise, Total Airtime, Noise Airtime, Estimated Throughput, Recommendations	
Test Results	OneCheck WiFi (Connected Mode)	Up to 802.11 a/b/g/n/ ac/ax (WiFi 6 8x8 with ONX connected as WiFi 5 3x3) Signal strength (RSSI), Standard, Width, Max Router PHY Rate Up to 802.11 a/b/g/n/ac (WiFi 5 3x3) Adds IP/Web connectivity, Throughput Tests	

Return Signal Gener	ator Option		
Number of signals generated simultaneously	From 1 to 8		
Signal types	Signals either all CW or all modulated		
Modulation supported	QPSK, 16 QAM, and 64 QAM		
Symbol rates supported	5.12, 2.56, 1.28, 0.64, 0.32, and 0.16 Msym/s		
Fiber Test			
Optical Fiber Power	Meter		
USB optical power meter	MP-60, MP-80		
Measurement units	dBm, mW, dB		
Connector input	Universal 2.5 and 1.25 mm connectors		
Power source	USB port		
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			
Actions for live mode, test mode, high magnification			
Probe model, serial, firmware			
Standard Accessories			
Protective case with hand strap and detachable shoulder strap			
AC power supply with country-specific adaptor plugs (USA, UK, Euro, Australia, China)			
Quick start guide			
StrataSync Core supp	port		

Ordering Information

SW PkgDual DiplexerModelBase42/85 MHzONX-220-42-85-D31-BASEPlus42/85 MHzONX-220-42-85-D31-PRUSPro42/85 MHzONX-220-42-85-D31-PRUSPro42/85 MHzONX-220-42-85-D31-PRUSPro65/204 MHzONX-220-42-85-D31-PROOthONX-220-42-85-D31-PROOthONX-220-42-85-D31-PROONX-200-65-204-D31-PROONX-220-42-85-D31-PROOthONX-200-65-204-D31-PROOthONX-200-65-204-D31-PROOthONX-2XX-SW-OPT-NDRAdvanced WFI Option (w/unit purchase)ONX-2XX-SW-OPT-ADV-WIFISmart Access Anywhere (w/unit purchase)ONX-2XX-SW-OPT-ADVSmart Access Anywhere (w/unit purchase)ONX-2XX-SW-OPT-SRCField UpgradesUPG-ONX-D5P-SW-HDL-LKGCable Fault FinderUPG-ONX-D5P-SW-ADRHome Leakage Software OptionUPG-ONX-D5P-SW-ADRCable Fault FinderUPG-ONX-D5P-SW-ADRAdvanced WFI OptionUPG-ONX-D5P-SW-ADRAdvanced WFI OptionUPG-ONX-D5P-SW-ADRAdvanced WFI OptionUPG-ONX-D5P-SW-ADRAdvanced TarsmiterUPG-ONX-D5P-SW-ADRDybere Software TarsmiterUPG-ONX-D5P-SW-ADRIntree-Year WarantyUPG-ONX-D5P-SW-ADRFive-Year WarantyONX-2XX-PWR-ADPT-VEHFive-Year Waranty and One CalibrationSILVER-3Five-Year Waranty and One CalibrationSILVER-3Five-Year Waranty and One CalibrationSILVER-3Five-Year Waranty and One CalibrationSILVER-3Five-Year Waranty and One Calibrati	Description		Part Number
65/204 MHz ONX-220-65-204-D31-BASE Plus 42/85 MHz ONX-220-42-85-D31-PLUS 65/204 MHz ONX-220-42-85-D31-PLUS Pro 42/85 MHz ONX-220-65-204-D31-PLUS Fro 42/85 MHz ONX-220-65-204-D31-PLUS For 65/204 MHz ONX-220-65-204-D31-PRO Options ONX-220-65-204-D31-PRO ONX-22X-SW-OPT-HL-LKG Cable Fault Finder ONX-2XX-SW-OPT-XDR Advanced WIFi Option (w/unit purchase) ONX-2XX-SW-OPT-XDR Mome Leakage Software Option ONX-2XX-SW-OPT-SAA Upstream Source Transmitter ONX-2XX-SW-OPT-SAC Home Leakage Software Option UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-VDR Advanced WiFi Option UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-XDR Advanced WiFi Option UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-XDR Advanced WiFi Option UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-XDR Advanced WiFi Option UPG-ONX-DSP-SW-XDR UPG-ONX-DSP-SW-SAA Upstream Source Transmitter UPG-ONX-DSP-SW-SAA Upstream Source Transmitter UPG-O	SW Pkg	Dual Diplexer	Model
Plus 42/85 MHz ONX-220-42-85-D31-PLUS 65/204 MHz ONX-220-65-204-D31-PLUS Pro 42/85 MHz ONX-220-65-204-D31-PLUS 65/204 MHz ONX-220-65-204-D31-PLUS Options ONX-220-65-204-D31-PRO Home Leakage Software Option ONX-2XX-SW-OPT-KDR Advanced WiFi Option (w/unit purchase) ONX-2XX-SW-OPT-XDR Advanced WiFi Option (w/unit purchase) ONX-2XX-SW-OPT-SAA Upstream Source Transmitter ONX-2XX-SW-OPT-SAA Upstream Source Transmitter UPG-ONX-DSP-SW-HL-LKG Cable Fault Finder UPG-ONX-DSP-SW-HL-LKG Advanced WiFi Option UPG-ONX-DSP-SW-NDR Advanced WiFi Option UPG-ONX-DSP-SW-NDR Advanced WiFi Option UPG-ONX-DSP-SW-ADV-WIFI Smart Access Anywhere UPG-ONX-DSP-SW-ADV-WIFI Smart Access Anywhere UPG-ONX-DSP-SW-ADV-WIFI Bronze and Silver Waranty Extensions UPC-ONX-DSP-SW-SAC Three-Year Waranty and Two Calibrations SILVER-3 Five-Year Waranty and Two Calibrations SILVER-5 General Accessories ONX-22X-PWR-ADPT-VEH ONX-220 Vehicle Charger with Integrated	Base	42/85 MHz	ONX-220-42-85-D31-BASE
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ONX-220 Wall Charger with Integrated CableONX-220 Field Replaceable Battery (48 WHR)ONX-2XX-PWR-ADPT-WALLONX-220 Field Replaceable Battery (48 WHR)ONX-2XX-BATT-48WHROneExpert Field Replaceable F-connectors (25 pack)ONX-CATV-FCON-25PKONX-220 Form-Fitted Case with Shoulder StrapONX-2XX-CASE-DELUXE			
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OneExpert Field Replaceable F-connectors (25 pack) ONX-CATV-FCON-25PK ONX-220 Form-Fitted Case with Shoulder Strap ONX-2XX-CASE-DELUXE			
ONX-220 Form-Fitted Case with Shoulder Strap ONX-2XX-CASE-DELUXE			
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OneCheck – Dashboard			
Measurement Feature	BASE	PLUS	PRO
Ingress Scan			
Downstream Summary			
DOCSIS Summary			

OneCheck – Downstream Details				
Measurement Feature	BASE	PLUS	PRO	
Full Channel Scan				
Basic Channel Details – Level, MER, BER, C/N, DQI				
Advanced Channel Details – Echo, GD, ICFR				
System View – Max dB Delta, Max Video Delta				
Favorites (up to 32 Channels)				
Tilt				
Off-Air Ingress Detection (Downstream IUC)				
MER & BER Graph (All Channels)				
Smart Scan				

OneCheck – DOCSIS Details				
Measurement Feature	BASE	PLUS	PRO	
Downstream DOCSIS Channel Scan				
Basic Downstream Channel Details – Level, MER, BER, C/N, DQI				
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			
Measurement Feature	BASE	PLUS	PRO
Full Channel Scan			
Basic Channel Details – Level, MER, BER, C/N, DQI			
Advanced Channel Details – Echo, GD, ICFR			
System View – Max dB Delta, Max Video Delta			
Favorites (up to 32 Channels)			
Tilt			
DQI Over Time			
Level Over Time			
MER Over Time			
BER Over Time			
Downstream ICFR			
Downstream IUC			
SmartScan			
Constellation			

DOCSISCheck			
Measurement Feature	BASE	PLUS	PRO
Downstream DOCSIS Channel Scan			
Basic Downstream Channel Details – Level, MER, BER, C/N, DQI			
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			

Network Connectivity Modes			
Measurement Feature	BASE	PLUS	PRO
DOCSIS Cable Modem	-		
Pass Through Modem RJ-45 Port			
Ethernet	■*		
WiFi	-		
Bluetooth			
Mobile App Integration			

* Base model has WiFi connectivity only (no testing)

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

Ethernet Testing			
Measurement Feature	BASE	PLUS	PRO
Web Browser			
Ping & Trace Route			
Speed Check – Throughput			
Ookla Speed Test			

WiFi Testing			
Measurement Feature	BASE	PLUS	PRO
2.4 & 5 GHz Network Scan			
Web Browser			

Fiber Optic Modes			
Measurement Feature	BASE	PLUS	PRO
OneCheck Fiber			
Optical Fiber Scope Support – P5000i			
Optical Power Measurement Support – MP60/MP80			
Optical Time Domain Reflectometer Support – Smart OTDR			



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