### Test&Measurement











# **Latest Portable OTDR Portfolio**

Optical Time Domain Reflectometer
Selection Guide

**Precision Making** 

Bulletin OTDR-01EN

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## Select from features and size

## Large screen model for easy viewing of waveforms

**Improved OTDR performance and connectivity!** YOKOGAWA's high-end model OTDR supporting the next generation communication network



High-end model OTDR

**A07290** Series

#### **Simple OTDR function**

A simple screen allows for setup and measurement, a pop-up window assists on saving and other tasks after measurement.





#### Remote control

By using a commercially available wireless LAN adapter and Wi-Fi router, OTDRs can be operated remotely. This allows to operate and check OTDRs in the field from the office or home, it is ideal for business support by veterans and saving labors.

#### Modular and large screen offering the most configuration flexibility



#### Wide range of module lineup for various applications

The product can be used for a wide range of applications, from a high dynamic range mod suitable for long distance measurement to a model with a wavelength of 1490 nm used fo FTTH installation confirmation and a model for manufacturing applications.



## Compact and lightweight handheld model

Midsize non-modular robust platform, small enough to be operated easily with one hand!



Multi Field Tester OTDR

## **A01210**Series

#### **Compact but long-hour operation**

This compact OTDR is A5 size and weighs only 1 kg.

With 10 hours of battery operation, there is no need to worry about running out of battery power throughout a day's work. Smart and fully-featured, now includes multitasking.s



#### **Most compact OTDR**



Simple tablet-like touchscreen icon menu making it perfect for beginners. Affordable model with a full range of essential functions for access network construction.









**YOKOGAWA OTDR function comparison** 

<ul><li>Standard</li></ul>	Option

It	tems	AQ7290	AQ7280	AQ1210	AQ1000
Dimensions (W) × (H) × (D) mm		287 × 210 × 80	287 × 210 × 80	210 × 148 × 69	185 × 116 × 56
W	/eight	2.6 kg	2.8 kg	1 kg	660 g
	Size	8.4-inch	8.4-inch	5.7-inch	5.0-inch
Display	Touchscreen	•	•	•	•
Batter	y operation	15 hours	15 hours	10 hours	10 hours
Powe	er supply	USB Power adapter	AC adapter	USB Power adapter	USB Power adapter
Wir	ed LAN	0	0	<b>●</b> *2	_
Wireless LAN		● <sup>+1</sup> File transfer Remote control	●*¹ File transfer	File transfer Remote control	0
Multi-fiber	r measurement	•	•	•	_
Smar	t Mapper	•	0	•	_
Mult	i-tusking	•	•	•	_
Stabilized	d light source	•	0	•	•
Powe	r checker	0	0	0	•
Optical p	oower meter	0	0	0	_
Visible	light source	0	0	0	0
F1 6 1 144	Image display Automatic judgment	•	•	•	_
Fiber surface test*1 Automa	Automatic judgment	0	0	0	_
Auto/Multi	i-fiber loss test	•	-	•	_
Schedule fun	ction (Monitoring)	0	0	_	_
Momentary into	erruption monitoring	_	○*3	_	_

<sup>\*1</sup> For information of Verified Products, please visit: https://tmi.yokogawa.com/p/otdr/ \*2 Integrated optical power meter \*3 /LAN option and AQ7940 Optical Fiber Monitoring Software are required.



#### YOKOGAWA OTDR model map

#### For fiber optic installation

Cable type	Target network					Test app	lication		
	Area*1		PON	(measurer	In nent	stallation of new and dark fiber)	Insta (measure	allati ment	on/Maintenance t of new and live lines)
				Model		Wavelength (nm)	Model		Wavelength*2 (nm)
		32		AQ1000	—	1310 1550			
	Access	dB	1 × 32	AQ7282	G	1310 1550 1490			
	Access	uв	1 (/	AQ1210	Α	1310 1550	AQ1210	Е	<b>1310 1550 1625</b>
		37	1 × 64	AQ7292	Α	1310 1550			
Single-mode		dD.	1 × 64	AQ7283	K	1310 1550 1625 1490	AQ7283	Е	1310 1550 1625
optical fiber cable		dB 42 dB 39	1 × 128	AQ1215	Α	1310 1550	AQ1215	Ε	1310 1550 1625
	Access/Metro			·			AQ1215	F	1310 1550 1650
	<b>4</b> BdB	1 ^ 120	AQ7293	A	1310 1550				
		<del>a</del> mad		AQ7293	Н	1310 1550 1625	AQ7293	F	1310 1550 1650
	NA - + 11 - 10 - 11 -	47 dB		AQ7294	Α	1310 1550			
	Metro/Core	47 UB	_	AQ7294	Н	1310 1550 1625			
	Core	50 dB	_	AQ7285	Α	1310 1550			

 $<sup>^{*\!1}</sup>$  The dB value is the maximum dynamic range of OTDRs for each target area.

#### For optical fiber R&D and manufacturing

Cable type	Target application	Model Wavelength (ni		Wavelength (nm)
			Α	1310 1550
Single-mode Optical fiber cable	R&D/Manufacturing	AQ7286	Н	1310 1550 1625
Optical liber cable			J	1310         1550         1625         1383



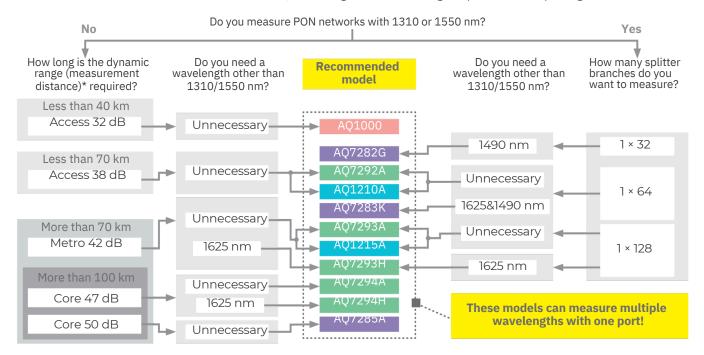


<sup>\*2</sup> A built-in cut filter to isolate from communication wavelengths included

## Use flow chart to select from application and measurement performance

#### Installation of single mode (measurement of new and dark fibers)

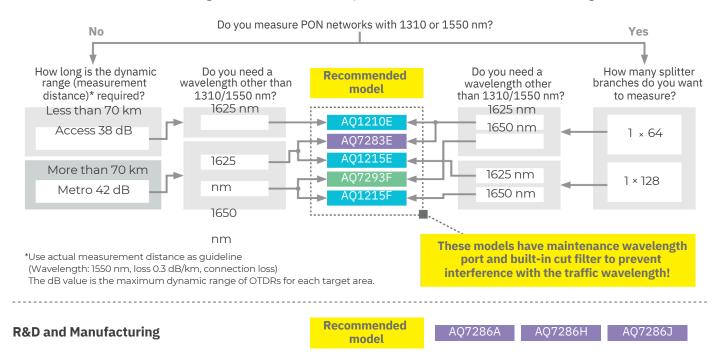
The installation models can measure multi trace, including traffic wavelengths (1310/1550 nm) using.



<sup>\*</sup>Use actual measurement distance as guideline (Wavelength: 1550 nm, loss 0.3 dB/km, connection loss) The dB value is the maximum dynamic range of OTDRs for each target area.

#### Installation and maintenance of single mode fiber (measurement of new and live lines)

Two separate ports effectively avoids mishaps by offering a dedicated port for the traffic wavelength and a second port for the (16xx nm) maintenance wavelength with built-in cut filter to prevent interference with the traffic wavelength.







## **Ordering Information**

Minimum configuration

Not sold separately (Cannot be added after shipping)

Sold separately

#### AQ7290 series

Items	Models	Suffix codesD	escriptions	Selection types
OTDR Mainframe	AQ729		OTDR [Select one model] [Select one language: HE, HM, HC, HK, HR] [Select one connector for OTDR: USC, UFC, ASC, NUA]	Required
		/PC /VLS /LAN	Optical Power Meter [Select one type: SPM, HPM] (The connector type is determined by that of Power checker Visible light source Ether net	Optional
		/MN T /FST	Monitoring function Fiber Surface Test function Shoulder Belt	Optional

Note. The OTDR and AC adapter can be additionally purchased separately.

#### **Accessories (Sold separately)**

	(	- p	· <b>)</b> /
Items	Models	Suffix codesD	escriptions
Additional option license	735052	-FST	Additional option license (FST: Fiber Surface Test function)
		-MNT	Additional option license (MNT: Monitoring function)
Optical connector adapter (for OTDF			Universal Adapter [Select one connector type: SCC, FCC, ASC]
conversion adapter	735483	-LSS	LCSC Conversion adapter
USB cable	A1681WL	_	USB Cable (Type-C at both ends)
Battery	739883	_	Battery pack (Spare)
Carrying case	739860	_	Soft carrying case

#### **AQ1210 Series**

4				
Items	Models	Suffix codesD	escriptions	Selection types
OTDR Main frame	AQ121	-00	[Select one language: HE, HM, HC, HK, HR]	Required
			OTDR: USC, UFC, ULC, ASC]	Required
		7000	Optical Power Meter [Select one type: SPM, HPM, PPM] (The connector type is determined by that of OTDR  Power Checker (Integrated	Optional
		/PC /VLS	optical power meter) Visible Light Source	
		/FST /SB	Shoulder belt	Optional

Note. AUSB power adapter is also required. Please consult with our sales representatives for recommended products.

#### **Accessories (Sold separately)**

Items	Models	Suffix codesDescriptions		
Additional option license	735051	-FST -	Additional option license (FST: Fiber Surface Test function)	
Optical connector adapter (for OTDF			Universal Adapter [Select one connector type: SCC, FCC, LCC, ASC]	
USB cable	A1681WL	_	USB Cable (Type-C at both ends)	
Battery	739884	_	Battery pack (spare)	
Carrying case	SU2006A	_	Soft Carrying Case	

#### **AQ7280 Series**

	Models	Suffix codesD		Selection types
OTDR Mainframe	AQ7280	_	OTDR Mainfarme [Select one language: HJ, HE, HM, HC, HK, HR]	Required
		/LAN	Ether net	Optional
		/FST /MNT /SMP /SB	Fiber Surface Test function Monitoring function Smart Mapper function Shoulder Belt AC Adapter   Select one powe	Optional
AC Adapter		_	cord type] OTDR Unit [Select one mode	Required
OTDR Unit	AQ728	_	[Select one connector type: USC, UFC, ASC, NUA] Power Checker (Integrated	Required
		/PC /SLS /10N	optical power meter) Stabilized Light Source 10 nm Wavelength Tolerance OPM (Optical Power Meter)	Optional
OPM/VLS modules	AQ278	-	[Select one model] [Select one connector: SCC, FCC, SFC (2.5 mm dia.), LMC (1.25 mm dia.)] (Models with "V" include the VLS function.) VLS (Visible Light Source) ((Fixed connector with	Optional
	AQ4/80	_	2.5 mm dia.)	

Note. The OTDR mainframe, OTDR units, AC adapter, and modules can be additionally purchased separately.

#### **Accessories (Sold separately)**

Items	Models	Suffix codesE	Descriptions
Application	735071	-HE	AQ7940 Optical Fiber Monitoring
software		-	Software (Language: English/Japanese)
Additional option	735050		Additional option license [Select one option code: MNT, SMP, FST]
Optical connector	302005A		Universal Adapter
adapter (for OTDF	1)		[Select one connector type: SCC, FCC] (When OTDR connector is ASC, select SCC. The ASC is not compatible with FCC)
Battery	73988	_	Battery pack (spare)
	75500		Soft Carrying Case
Carrying case	3	_	Soft Sarrying Sass
	73986		

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#### AQ1000

Items OTDR Mainframe	Models AQ1000	Suffix codes	Suffix codesDescriptions  OTDR [Select one model]  [Select one connector for OTDR: USC, UFC, ASC]	
		/VLS	Visible Light Source	Optional
		/WLN	Wireless LAN	Optional

#### **Accessories (Sold separately)**

Items	Models	Suffix codesD	escriptions
USB cable	A1590WL	_	USB Cable (DC power supply)
Strap	R8102Eb	_	Strap

#### **Common Accessories (Sold separately)**

		-	
Items	Models	Suffix codesD	
Optical	Switch	-112-SA-SCC1	× 12, SMF, SC/PC type
Software	5.5	-000	Emulation Software (Multi-language) [Select one medium: SP01 (download), SC01 (CD)]
Optical connector adapter (for OPM)		-000	Universal Adapter [Select one connector type: SCC, FCC]
,	735481		type: SFC (2.5 mm dia.), LMC (1.25 mm dia.)]
Belt	B8070CY	_	Shoulder Belt





## **Related products**

#### **AQ1100Series OLTS**

The AQ1100 Series OLTS is an optical loss test set that integrates a light source and a power meter. Three models are available for each light source, and three types of power meters are also selectable, making the AQ1100 series OLTS ideal for a wide range of applications. The OLTS is also equipped with an auto-loss test function for easy optical loss measurement.



#### AQ2170 AQ2180 AQ4280 Handy OPM/LS

The AQ2170, AQ2180, and AQ4280 are handy-type power meters and light sources. The AQ2170 and AQ2180 optical power meters are available in standard and high-power versions to suit different applications, while the AQ4280 light source is available in three different combinations of wavelengths.









