

# Latest Portable OTDR Portfolio

## Optical Time Domain Reflectometer Selection Guide

Precision Making

Bulletin OTDR-01EN



# Select from features and size

Modular Flagship OTDR

## AQ7280 Series



**Flagship modular frame offering the most configuration flexibility**

- Multitasking feature capable of testing up to 4 fibers simultaneously
- Large “pinch zoom” responsive capacitive touchscreen

Multi Field Tester OTDR

## AQ1210 Series



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

- Smart and fully-featured, now includes multitasking

Entry level OTDR

## AQ1000



**Most compact and affordable model, yet still packed with the essential features**

- Simple tablet-like touchscreen icon menu making it perfect for beginners

### YOKOGAWA OTDR function comparison

● Standard ○ Option

Items	AQ7280	AQ1210	AQ1000
Dimensions (W) × (H) × (D) mm	287×210×80	210×148×69	185×116×56
Weight	2.8 kg	1 kg	660 g
Display	Size	8.4-inch	5.0-inch
	Touchscreen	●	●
Battery operation	15 hours	10 hours	10 hours
Power supply	AC Adapter	USB power adapter	USB power adapter
Wired LAN	○	● <sup>1</sup>	—
Wireless LAN	● <sup>1</sup> File transfer	● <sup>1</sup> File transfer & remote control	○
Multi-fiber measurement	●	●	—
Smart Mapper	○	●	—
Multi-tasking	●	●	—
Stabilized light source	○	●	●
Power checker <sup>2</sup>	○	○	●
Optical power meter	○	○	—
Visible light source	○	○	○
Fiber surface test <sup>1</sup>	Image display	●	—
	Automatic judgment	○	○
Auto/Multi-fiber loss test	—	●	—
Schedule function (Monitoring)	○	—	—
Momentary interruption monitoring	○ <sup>3</sup>	—	—

\*1 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 application				
	Area <sup>1</sup>		PON	Installation (measurement of new and dark lines)		Installation/Maintenance (measurement of new and live lines)		
				Model	Wavelength (nm)	Model	Wavelength <sup>2</sup> (nm)	
Single-mode optical fiber cable	Access	32 dB	—	AQ1000	—	1310 1550		
				1×32	AQ7282	A	1310 1550	
			G		1310 1550 1490			
	Access/ Metro	38 dB	1×64	AQ1210	A	1310 1550	AQ1210	E 1310 1550 1625
				AQ7283	H	1310 1550 1625	AQ7283	E 1310 1550 1625
		42 dB	1×64		K	1310 1550 1625 1490	AQ7283	F 1310 1550 1650
				1×128	AQ1215	A	1310 1550	AQ1215
	Metro/ Core	46 dB	—		AQ7284	A	1310 1550	AQ1216
					H	1310 1550 1625		
		Core	50 dB	—	AQ7285	A	1310 1550	

\*1 The dB value is the maximum dynamic range of OTDRs for each target area.

\*2 A built-in cut filter to isolate from communication wavelengths included

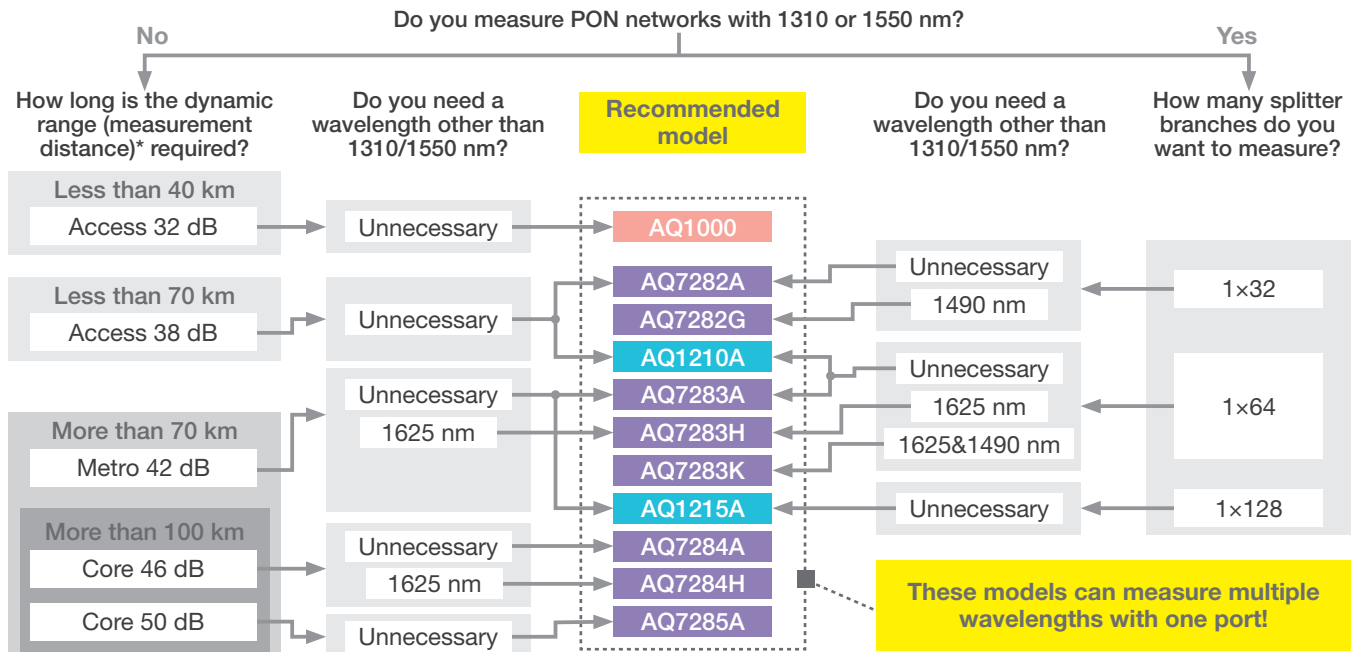
For optical fiber R&D and manufacturing

Cable type	Target application	Model	Wavelength (nm)
Single-mode optical fiber cable	R&D/ Manufacturing	AQ7286	A 1310 1550
			H 1310 1550 1625
			J 1310 1550 1625 1383

# Use flow chart to select from application and measurement performance

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

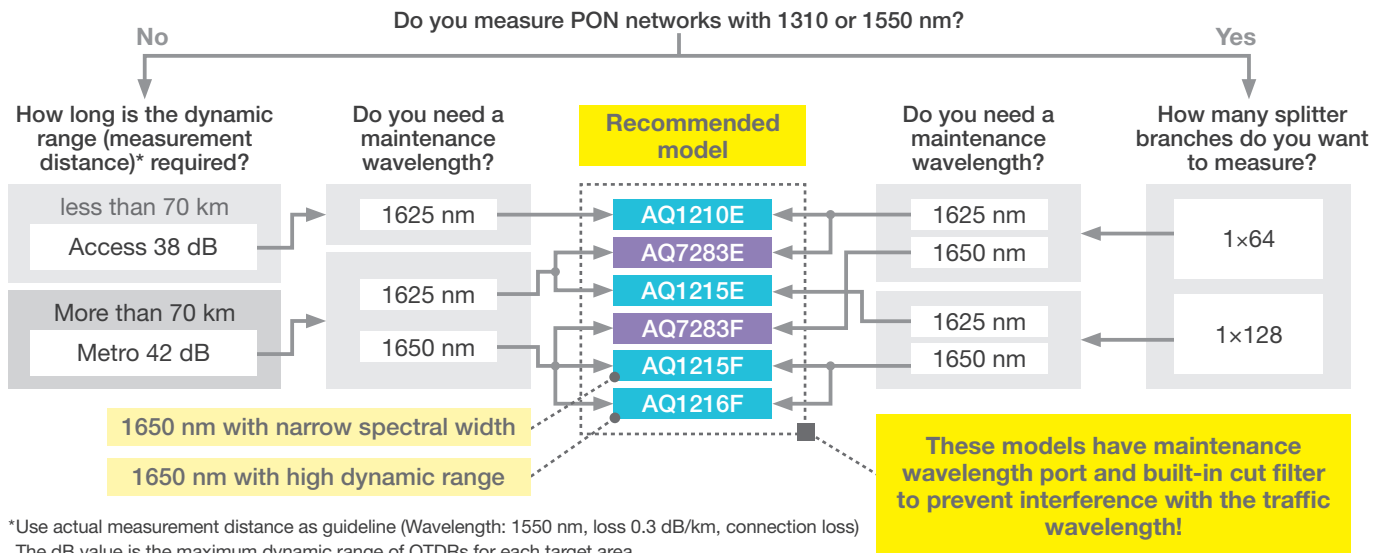
The installation models can measure multi trace, including traffic wavelengths (1310/1550 nm) using.



\*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 (16xxnm) maintenance wavelength with built-in cut filter to prevent interference with the traffic wavelength.



\*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.

R&D and Manufacturing

**Recommended model**

AQ7286A AQ7286H AQ7286J

## Ordering information

Minimum configuration

Not sold separately (Cannot be added after shipping)

Sold separately

### AQ7280 series

Items	Models	Suffix codes	Descriptions	Selection types
OTDR Mainframe	AQ7280	-□□	OTDR Mainframe [Select one language: HJ, HE, HM, HC, HK, HR]	Required
		/LAN	Ethernet	Optional
		/FST	Fiber Surface Test function	Optional
		/MNT	Monitoring function	
		/SMP	Smart Mapper function	
	/SB	Shoulder Belt		
AC Adapter	739874	-□□	AC Adapter [Select one power cord type]	Required
OTDR Unit	AQ728□□	—	OTDR Unit [Select one model]	Required
		-□□□	[Select one connector type: USC, UFC, ULC, ASC, NUA]	Optional
		/PC	Power Checker (Integrated optical power meter)	
		/SLS	Stabilized Light Source	
	/10N	10 nm Wavelength Tolerance		
OPM/VLS modules	AQ278□□	-□□□	OPM (Optical Power Meter) [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.)	Optional
	AQ4780	—	VLS (Visible Light Source) (Fixed connector with 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 codes	Descriptions
Application software	AQ7933	-□□□□	Emulation Software (Multi-language) [Select one medium: SP01 (download), SC01 (CD)]
	735071	-HE	AQ7940 Optical Fiber Monitoring Software (Language: English/Japanese)
Additional option license	735050	-□□□	Additional option license [Select one option code: MNT, SMP, FST]
Optical connector adapter (for OTDR)	SU2005A	-□□□	Universal Adapter [Select one connector type: SCC, FCC, LCC] (When OTDR connector is ASC, select SCC. The ASC is not compatible with FCC and LCC.)
Optical connector adapter (for OPM)	735480	-□□□	Universal Adapter [Select one connector type: SCC, FCC]
	735481	-□□□	Universal Adapter [Select one connector type: SFC (2.5 mm dia.), LMC (1.25 mm dia.)]
Battery	739883	—	Battery pack (spare)
Belt	B8070CY	—	Shoulder Belt
Carrying case	739860	—	Soft Carrying Case
Optical Switch Box	AQ3550	-112-SA-SCC	1x12, SMF, SC/PC type

### AQ1210 series

Items	Models	Suffix codes	Descriptions	Selection types	
OTDR Mainframe	AQ121□□	—	OTDR [Select one language: HE, HM, HC, HK, HR]	Required	
		-□□	[Select one language]		
		-□□□	[Select one connector for OTDR: USC, UFC, ULC, ASC]		
			-□□□	Optical Power Meter [Select one type: SPM, HPM, PPM] (The connector type is determined by that of OTDR)	Optionallss
		/PC	Power Checker (Integrated optical power meter)		
		/VLS	Visible Light Source		
			/FST	Fiber Surface Test function	Optional
	/SB	Shoulder Belt			

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

### Accessories (Sold separately)

Items	Models	Suffix codes	Descriptions
Application software	AQ7933	-□□□□	Emulation Software (Multi-language) [Select one medium: SP01 (download), SC01 (CD)]
Additional option license	735051	-FST	Additional option license (FST: Fiber Surface Test function)
Optical connector adapter (for OTDR)	735482	-□□□	Universal Adapter [Select one connector type: SCC, FCC, LCC, ASC]
Optical connector adapter (for OPM)	735480	-□□□	Universal Adapter [Select one connector type: SCC, FCC]
	735481	-□□□	Universal Adapter [Select one connector type: SFC (2.5 mm dia.), LMC (1.25 mm dia.)]
USB cable	A1681WL	—	USB Cable (Type-C at both ends)
Battery	739884	—	Battery pack (spare)
Belt	B8070CY	—	Shoulder Belt
Carrying case	SU2006A	—	Soft Carrying Case
Optical Switch Box	AQ3550	-112-SA-SCC	1x12, SMF, SC/PC type

### AQ1000

Items	Models	Suffix codes	Descriptions	Selection types
OTDR Mainframe	AQ1000	—	OTDR [Select one model]	Required
		-□□□	[Select one connector for OTDR: USC, UFC, ASC]	
		/VLS	Visible Light Source	Optional
/WLN	Wireless LAN			

### Accessories (Sold separately)

Items	Models	Suffix codes	Descriptions
Application software	AQ7933	-□□□	Emulation Software (Multi-language) [Select one medium: SP01 (download), SC01 (CD)]
Optical connector adapter (for OTDR)	735482	-□□□	Universal Adapter [Select one connector type: SCC, FCC]
USB cable	A1590WL	—	USB Cable (DC power supply)
Strap	B8105EP	—	Strap



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