

# AQ4270-01

LD Light Source



## *Excellent cost performance in a compact package*

The AQ4270-01 LD light source is one-third the size of Yokogawa's previous LD light source even though it provides output on two wavelengths. With a cleanable universal adapter, the AQ4270-01 is easy to maintain, and is rugged and durable. This handheld light source can be used with confidence even when working outside on fiber-optic installation and maintenance.

### ■ Excellent cost performance

- The cleanable universal adapter makes the AQ4270-01 easier to maintain. The service life of the ferrule edge, which can be easily damaged during field work, has been greatly improved, helping to reduce maintenance costs. (Even if it is damaged, it is possible to replace just the connector unit at low cost.)
- Low-power consumption design allows approximately 24 hours of battery life at normal temperatures (using two alkaline dry cells).

### ■ High performance with a safe and user-friendly design

- The AQ4270-01 is approximately one-third the size of Yokogawa's previous LD light source, making it easier to use fiber-optic installation and maintenance.
- With a rugged, durable construction, the AQ4270-01 can be used for extended periods even in harsh outdoor environments (operating temperature range: 0°C to +50°C; weatherproofing: conforms to IEC 60529 IPx1).
- Excellent output stability
  - Wavelength : 1310/1550 nm  $\pm$  20 nm
  - Stability : 1 dBpp or less (temperature stability)
  - $\pm$ 0.05 dB or less (time stability)
- CHOP light output capability (frequencies: 270 Hz, 1 kHz, 2 kHz; frequency precision:  $\pm$ 0.15%)

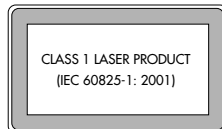
## Specifications

Light source performance	
Source type	FP-LD
Wavelength <sup>1)</sup>	1310/1550 ±20 nm
Spectral line width <sup>1,2)</sup>	5 nm or less (1310 nm) 10 nm or less (1550 nm)
Optical output level	-7 dB or more (Class 1 laser product)
Output level stability	Temperature stability
	Time stability
Internal modulation (CHOP)	CW light, CHOP light Selectable frequencies: 270 Hz, 1 kHz, 2 kHz
Optical connector <sup>5)</sup>	Universal adapter (optional)
Applicable fiber type	SM (9/125 μm)
Light source performance and functions	
Display	LED
Mode and wavelength holding function	Resumes internal modulation mode and wavelength which were active at preceding power-off
Power saving	Power turns off automatically when there is no key input for approximately 10 minutes during battery-powered operation with OPT OFF
Battery check	LED flashes when battery is low
Power supply	Two AA batteries (alkaline dry cells or nickel metal-hydride rechargeable batteries) or optional AC adapter
Battery life <sup>6)</sup>	Approximately 24 hours (as measured using alkaline dry cells, at 25°C with CW light output)
Environmental conditions	Operating temperature range: 0°C to +50°C Storage temperature range: -25°C to +70°C Relative humidity: 80% or less (no condensation)
Weatherproofing	Conforms to JIS C 0920 weatherproofing TYPE I
Dimensions and weight	72 (W) × 158 (H) × 32 (D) mm Approximately 225 g
Included accessories	Two alkaline batteries, neck strap, carrying pouch, user's manual
Safety/EMC	Conforms to IEC60825-1(safety) and EN61326(EMC) EN61010(Safety)

Note 1: Ta=23°C, CW light source  
 Note 2: RMS (2σ -20 dB)  
 Note 3: 0°C to 40°C (12 hours)  
 Note 4: Within 20°C to 30°C ±1°C (15 minutes)  
 Note 5: This adapter is cleanable.  
 Note 6: Varies depending on usage conditions and battery.

### Laser Safety Information

These laser sources are classified IEC 60825-1: Class 1  
 The laser products comply with 21CFR1040.10 except for deviations pursuant to Laser Notice No.50, dated May 27 2001



## Model

Product name: AQ4270-01 LD Light Source (1310/1550 nm)

Model number:

SU1007A/□□□□□□□□

- CE: CE compliance declaration
- PR: Protector
- M: JIS standard type (2-pin) AC adapter
- C: UL/CSA standard type (UL2P) AC adapter
- F: VDE standard type (CEE-C2) AC adapter
- G: SAA standard type (AS2P) AC adapter
- J: BS standard type (BS2P) angle AC adapter
- SCC: (SC) universal adapter
- FCC: (FC) universal adapter
- STC: (ST) universal adapter
- DIN: (DIN) universal adapter
- DIA: (DIA) universal adapter
- LCC: (LC) universal adapter

\* Contact us if you have any questions.

## Options

Product	Model number	Specifications
Universal adapter	SU2005A	-SCC SC
		-FCC FC
		-STC ST
		-LCC LC
		-DIN DIN
		-DIA DIA
Protective Holster	SU2003A	
AC adapter	SU2007A	-M JIS standard type (2-pin)
		-C UL/CSA standard type (UL2P)
		-F VDE standard type (CEE-C2)
		-G SAA standard type (AS2P)
		-J BS standard type (BS2P) angle
Soft carrying case	SU2006A	



\* The photo shows all included accessories except for the user's manual.

## Related Products



Optical Powermeter  
**AQ2160-01**

Handheld powermeter for absolute value measurement only



Optical Powermeter  
**AQ2160-02**

High-performance handheld powermeter with advanced functions



OTDR  
**AQ7260**

Measuring instrument for detecting damage points on optical fiber lines



Traffic Tester/Mini  
**AE5501**

Handheld tester for Ethernet line setup and maintenance

### Caution

- If you plan to export this product outside of Japan, you may need approval from the Japanese government pursuant to the stipulations of the Foreign Exchange and Foreign Trade Control Law.
- In addition, this product is subject to restrictions under the United States Export Control Act, so export approval from the United States government may be required depending on the destination country.

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 Printed in Japan, 412(KP)