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**Data Sheet**

August 13, 2026

ANDO

## ANDO AQ6141 Multi-Wavelength Meter

Ando AQ6141 Multi Wavelength Meter 1270 to 1650 nm The Ando (Yokogawa) AQ6141 is a multi-wavelength meter for DWDM system development and manufacturing. It simultaneously measures wavelength and power for up to 256 channels across 1270 to 1650 nm with high resolvable separation, ITU-T grid monitoring, drift analysis, and a dedicated narrow bandpass filter center-wavelength measurement function. Results display on a 6.5-inch color LCD with GPIB and RS-232 remote control. The Ando (Yokogawa) AQ6141 is a multi-wavelength meter for DWDM system development and manufacturing. It simultaneously measures wavelength and power for up to 256 channels across 1270 to 1650 nm with high resolvable separation, ITU-T grid monitoring, drift analysis, and a dedicated narrow bandpass filter center-wavelength measurement function. Results display on a 6.5-inch color LCD with GPIB and RS-232 remote control.



MODEL

**Ando AQ6141**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**AQ6141**

LISTING

<https://aumictechlabs.com/products/aq6141-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The ANDO AQ6141 Multi-Wavelength Meter is a precision optical instrument for measuring wavelengths across the 900 to 1680 nm band. It delivers absolute accuracy to  $\pm 0.2$  ppm in the 1270–1680 nm range and provides simultaneous waveform and measurement display with peak analysis capabilities. The meter accepts single-mode fiber input at power levels to +10 dBm and features advanced analysis tools including 3D waveform visualization, ITU-T grid verification,

wavelength drift measurement, and dual marker functions. Built for DWDM system development, optical component characterization, laser wavelength verification, and narrow bandpass filter testing, the AQ6141 combines high spectral resolution with laboratory-grade stability.

**Technical Specifications**

- Wavelength Range: 900 to 1680 nm (178.470 to 333.144 THz)
- Wavelength Absolute Accuracy:  $\pm 0.2$  ppm (1270–1680 nm at 1550 nm reference);  $\pm 0.3$  pm
- Maximum Input Level: +10 dBm
- Optical Input: 9/125 single-mode fiber
- Linearity:  $\pm 0.3$  dB (input levels  $\geq -30$  dBm)
- Polarization Dependence:  $\pm 0.5$  dB (1270–1600 nm)

**Key Features**

- Simultaneous optical waveform and measurement display
- Peak wavelength and power analysis - displays up to 14 peaks with corresponding power levels
- Single-channel waveform monitoring with current, maximum, minimum, and balance rate tracking
- ITU-T grid alignment verification
- Wavelength drift analysis over time
- 3D waveform display with peak list overlay for temporal trend visualization
- Marker function for wavelength and power difference analysis

**Typical Applications**

- DWDM system development and manufacturing
- Optical component testing and quality assurance
- Laser output characterization
- Narrow bandpass filter center wavelength determination

**Compatibility & Integration**

- GPIB interface for instrument control and data transfer
- RS-232 serial communication for remote operation
- VGA monitor interface for external display output

## Features & description

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From manufacturer datasheet

### Features

- Simultaneous measurement of up to 256 channels
- Wavelength accuracy plus or minus 2 ppm class family
- Minimum resolvable separation 10 GHz or less
- Grid monitoring and drift analysis functions
- Narrow bandpass filter center wavelength measurement
- 6.5-inch color LCD with VGA GPIB and RS-232

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### Applications

- DWDM multi-channel wavelength and power analysis
- ITU-T grid monitoring and drift stability testing
- Narrow bandpass filter center wavelength measurement
- Optical source and WDM component manufacturing QA

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### Polarization dependent loss 1600 to 1650 nm: 1.0 dB

Maximum number of line inputs: 256 Minimum input level 1270 to 1600 nm: -40 dBm one line Minimum input level 1600 to 1650 nm: -30 dBm one line Maximum input level: +10 dBm total of all lines Safe maximum input level: +18 dBm total of all lines Return loss PC: 35 dB SN ratio typical: 35 dB Measurement time: 1.5 s or less Display: 6.5 inch color LCD 640 × 480 Interfaces: GP-IB RS-232C printer VGA Optical connector: AQ9441 FC universal adapter Power requirements: AC 100 to 120 / 200 to 240 V 50/60 Hz about 100 VA Operating temperature: 5 to 40 C Storage temperature: -20 to +60 C Dimensions: about 425 mmWx 132.5 mmHx 450 mmDNarrow BPF center wavelength function: yes AQ6141 feature Notes Numeric optical specs primarily from Ando AQ6140/AQ6141 multi-wavelength meter family datasheets and reseller tables; AQ6141 adds/emphasizes narrow bandpass filter center-wavelength measurement versus AQ6140. Confirm absolute accuracy grade and connector adapter on the unit.

## AQ6141 Characteristics / Specifications

| PARAMETER                                   | VALUE                                         |
|---------------------------------------------|-----------------------------------------------|
| Model                                       | AQ6141                                        |
| Manufacturer                                | Ando / Yokogawa                               |
| Instrument Type                             | Multi Wavelength Meter                        |
| Alias                                       | AQ6141; Ando AQ6141; AQ6140/6141 series       |
| Applicable fiber                            | SM                                            |
| Wavelength range                            | 1270 to 1650 nm                               |
| Frequency range equivalent                  | 182 to 236 THz                                |
| Wavelength accuracy                         | plus or minus 2 ppm                           |
| Wavelength accuracy at 1550 nm              | about plus or minus 0.003 nm                  |
| Wavelength accuracy at 1310 nm              | about plus or minus 0.003 nm                  |
| Minimum resolvable separation               | 10 GHz or less                                |
| Minimum resolvable separation at 1550 nm    | 80 pm                                         |
| Power accuracy                              | plus or minus 0.5 dB                          |
| Level linearity 1270 to 1600 nm             | plus or minus 0.3 dB at input -30 dBm or more |
| Polarization dependent loss 1270 to 1600 nm | plus or minus 0.5 dB                          |
| Polarization dependent loss 1600 to 1650 nm | 1.0 dB                                        |
| Maximum number of line inputs               | 256                                           |
| Minimum input level 1270 to 1600 nm         | -40 dBm one line                              |
| Minimum input level 1600 to 1650 nm         | -30 dBm one line                              |
| Maximum input level                         | +10 dBm total of all lines                    |
| Safe maximum input level                    | +18 dBm total of all lines                    |
| Return loss PC                              | 35 dB                                         |
| SN ratio typical                            | 35 dB                                         |
| Measurement time                            | 1.5 s or less                                 |

| PARAMETER             | VALUE                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display               | 6.5 inch color LCD 640 × 480                                                                                                                                                                                                                                                                                                                                                         |
| Interfaces            | GP-IB RS-232C printer VGA                                                                                                                                                                                                                                                                                                                                                            |
| Optical connector     | AQ9441 FC universal adapter                                                                                                                                                                                                                                                                                                                                                          |
| Power requirements    | AC 100 to 120 / 200 to 240 V 50/60 Hz about 100 VA                                                                                                                                                                                                                                                                                                                                   |
| Operating temperature | 5 to 40 C                                                                                                                                                                                                                                                                                                                                                                            |
| Storage temperature   | -20 to +60 C                                                                                                                                                                                                                                                                                                                                                                         |
| Dimensions            | about 425 mmWx 132.5 mmHx 450 mmDNarrow BPF center wavelength function: yes AQ6141 feature Notes Numeric optical specs primarily from Ando AQ6140/AQ6141 multi-wavelength meter family datasheets and reseller tables; AQ6141 adds/emphasizes narrow bandpass filter center-wavelength measurement versus AQ6140. Confirm absolute accuracy grade and connector adapter on the unit. |
| Return loss           | PC: 35 dB                                                                                                                                                                                                                                                                                                                                                                            |

# General Specifications & Supplementary Characteristics

| PARAMETER             | VALUE                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature   | 20 to +60 C                                                                                                                                                                                                                                                                                                                                                                          |
| Operating temperature | 5 to 40 C                                                                                                                                                                                                                                                                                                                                                                            |
| Operating Temperature | 5 to 40 C                                                                                                                                                                                                                                                                                                                                                                            |
| Dimensions            | about 425 mmWx 132.5 mmHx 450 mmDNarrow BPF center wavelength function: yes AQ6141 feature Notes Numeric optical specs primarily from Ando AQ6140/AQ6141 multi-wavelength meter family datasheets and reseller tables; AQ6141 adds/emphasizes narrow bandpass filter center-wavelength measurement versus AQ6140. Confirm absolute accuracy grade and connector adapter on the unit. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                              |                                               |
|---------------------------------------------|-----------------------------------------------|
| Technical Specifications                    |                                               |
| PARAMETER                                   | VALUE                                         |
| Model                                       | AQ6141                                        |
| Manufacturer                                | Ando / Yokogawa                               |
| Instrument Type                             | Multi Wavelength Meter                        |
| Alias                                       | AQ6141; Ando AQ6141; AQ6140/6141 series       |
| Applicable fiber                            | SM                                            |
| Wavelength range                            | 1270 to 1650 nm                               |
| Frequency range equivalent                  | 182 to 236 THz                                |
| Wavelength accuracy                         | plus or minus 2 ppm                           |
| Wavelength accuracy at 1550 nm              | about plus or minus 0.003 nm                  |
| Wavelength accuracy at 1310 nm              | about plus or minus 0.003 nm                  |
| Minimum resolvable separation               | 10 GHz or less                                |
| Minimum resolvable separation at 1550 nm    | 80 pm                                         |
| Power accuracy                              | plus or minus 0.5 dB                          |
| Level linearity 1270 to 1600 nm             | plus or minus 0.3 dB at input -30 dBm or more |
| Polarization dependent loss 1270 to 1600 nm | plus or minus 0.5 dB                          |
| Polarization dependent loss 1600 to 1650 nm | 1.0 dB                                        |
| Maximum number of line inputs               | 256                                           |
| Minimum input level 1270 to 1600 nm         | -40 dBm one line                              |
| Minimum input level 1600 to 1650 nm         | -30 dBm one line                              |
| Maximum input level                         | +10 dBm total of all lines                    |
| Safe maximum input level                    | +18 dBm total of all lines                    |
| Return loss PC                              | 35 dB                                         |
| SN ratio typical                            | 35 dB                                         |
| Measurement time                            | 1.5 s or less                                 |
| Display                                     | 6.5 inch color LCD 640 x 480                  |

| PARAMETER                             | VALUE                                              |
|---------------------------------------|----------------------------------------------------|
| Interfaces                            | GP-IB RS-232C printer VGA                          |
| Optical connector                     | AQ9441 FC universal adapter                        |
| Power requirements                    | AC 100 to 120 / 200 to 240 V 50/60 Hz about 100 VA |
| Operating temperature                 | 5 to 40 C                                          |
| Storage temperature                   | -20 to +60 C                                       |
| Dimensions                            | about 425 mm W x 132.5 mm H x 450 mm D             |
| Narrow BPF center wavelength function | yes AQ6141 feature                                 |

## Specifications

| PARAMETER                                   | VALUE                                         |
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| Safe maximum input level                    | +18 dBm total of all lines                    |
| Return loss PC                              | 35 dB                                         |

| PARAMETER             | VALUE                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------|
| SN ratio typical      | 35 dB                                                                                         |
| Measurement time      | 1.5 s or less                                                                                 |
| Display               | 6.5 inch color LCD 640 x 480                                                                  |
| Interfaces            | GP-IB RS-232C printer VGA                                                                     |
| Optical connector     | AQ9441 FC universal adapter                                                                   |
| Power requirements    | AC 100 to 120 / 200 to 240 V 50/60 Hz about 100 VA                                            |
| Operating temperature | 5 to 40 C                                                                                     |
| Storage temperature   | -20 to +60 C                                                                                  |
| Dimensions            | about 425 mmWx 132.5 mmHx 450 mmDNarrow BPF center wavelength<br>function: yes AQ6141 feature |

#### Notes

Numeric optical specs primarily from Ando AQ6140/AQ6141 multi-wavelength meter family datasheets and reseller tables; AQ6141 adds/emphasizes narrow bandpass filter center-wavelength measurement versus AQ6140. Confirm absolute accuracy grade and connector adapter on the unit.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.