



OPTICAL POWER METER 3661-20 LASER LIGHT SOURCE 3662-20, 3663-20

Optical/Telecom Measurement









JMI-0216





3661-20 includes Memory Interface

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Quickly collect data

and process it later

on a computer

Features of 3661-20

☐ Simple and intuitive operation

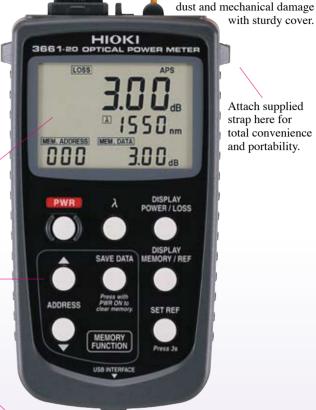
Large LCD shows measurement results and memory data at a glance Ergonomic key layout

□ Large Memory

- *Store 1000 sets of data for each registered wavelength
- *Register up to 8 custom wavelengths adjustable in 5nm units

□ Effective data processing

USB interface and supplied application software allows easy data management on a computer



Attach supplied strap here for total convenience and portability.

with sturdy cover.

Keep the connector safe from







3662-20: 1550 nm Two types of laser light sources

Features of 3662-20

Compact size for easy handling

Dimensions: approx. 76 (W) X 159 (H, including cover) X 35 (D) mm Mass: approx. 180 g (without batteries)

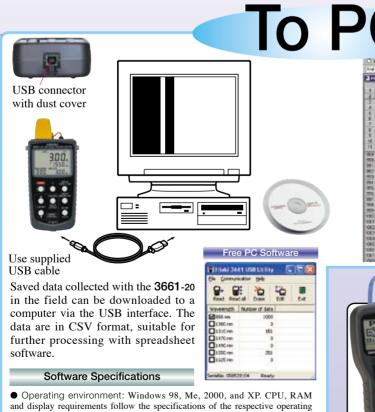
☐ Continuous or modulated light output

Continuous wave (CW) output or 3 types of modulated light output (270 Hz, 1 kHz, 2 kHz) can be selected.



Attach connector cover here to prevent dust from accumulating on the connector.

Transfer up to 1000 data for each wavelength



system. At least 10 Mbytes of free hard disk space are required. • Function: Download measurement data stored in memory to a computer via USB cable

connection. ● File format: CSV ● Interface standard: USB Ver. 1.1 or later



□ 3661-20 OPTICAL POWER METER Specifications

Specifications apply to temperature range 23 °C ±5 °C, HIOKI reference wavelength 1310 nm and 1550 nm*, power -10 dBm, CW, single mode fiber, FC master connector, PC finish

Measurement: Optical power measurement (dBm) functions

Measure absolute value of input optical power

Optical loss measurement (dB)

Automatically compare measured power with previously input reference value to calculate and display loss

Calibration wavelength: 850 nm, 1310 nm, 1550 nm

Measurable wavelength: 800 to 1660 nm

(Register up to 8 custom wavelengths adjustable in 5nm units) 8 default wavelengths preset at 850, 1300, 1310, 1470, 1490, 1550 1625, and 1650 nm

Range: -60 dBm to +9 dBm (auto range) Accuracy(1310/1550 nm) : $\pm 0.22 \text{ dB} \ (\pm 5 \%) \text{ at } -10 \text{ dBm}$

Resolution: 0.01 dBm (optical power), 0.01 dB (optical loss)

Rated max.: +10 dBm

Connector: FC, SC (using optional connector adapter)

Fiber type : Single mode, multi mode (core dia. $62.5 \, \mu \mathrm{m}$ max.

NA: 0.275 max)

Light receiver: InGaAs (dia. 1 mm)

Display update rate: Approx. 3 times/s (approx. 350 ms) Memory: Max. 1000 data per wavelength

Interface: USB (Ver. 1.1) Dedicated PC application software allows transfer

of measurement data from the 3661-20 memory to a computer

Functions: Auto power save (after about 10 minutes of inactivity; defeatable)

Settings backup (settings are automatically stored at power-off) Battery check (symbol appears when voltage drops below approx. 4 V)

Applicable: Safety: EN61010-1 Pollution degree 2

standards EMC: EN61326 +A1+A2+A3

Operation temp. : 0 °C to 40 °C, 80 %rh or less, no condensation Storage temp.: -10 °C to 50 °C, 80 %rh or less, no condensation

Power supply: LR6(AA) alkaline batteryX4

Max. rated power: 0.5 VA

Operating time: Approx. 40 hours (continuous use)

Dimensions and: Approx. 85 W X192 H (including 36 mm cover) X

35 D mm, Approx. 300g (without batteries) (Approx. 3.35"(W)7.56" (H)1.38" (D), Approx. 10.6 oz.)

OPTICAL POWER METER 3661-20

Includes Free PC Software application DOWNLOAD UTILITY CD-R, USB cable (1m), CARRYING CASE 3853 (for 3661-20 main unit), Strap

For optical fiber cable measurement with the 3661-20, an optional connector adapter must be selected.

3661-20 options



FC CONNECTOR ADAPTER 9731



SC CONNECTOR ADAPTER 9732

☐ 3662-20, 3663-20 LASER LIGHT SOURCE Specifications

Specifications apply to temperature range 23 °C ±5 °C, single mode fiber, FC aster connector, PC finish, at output end of 2m cable

Light-emitting element: Semiconductor laser diode

Output connector: FC, SC (using optional connector adapter)

Fiber type: Single mode

Output mode: Continuous wave (CW) or modulated light

(270 Hz, 1 kHz, 2 kHz)

Output: 1310 ±20 nm (3663-20) wavelength 1550 ±20 nm (3662-20)

Spectrum width: 5 nm max. Output level: -6 +2 dBm

Output level: Within ±0.1 dB (temperature constant, 5 minutes)

Within 1.0 dB p-p (ambient temperature 0 to 40 °C, 8 hours)

Functions: Battery check (indicator flashes when battery voltage drops)

Applicable: Safety: EN61010-1 Pollution degree 2 standards

EMC: EN61326+A1+A2+A3 Laser: IEC 60825 -1, Class 1 Laser

Complies with 21 CFR 1040.10 and 1040.11 except for deviations

pursuant to Laser Notice No.50, dated July 26,2001

Operation temp. : 0 °C to 40 °C, 80 %rh or less, no condensation Storage temp. : -10 °C to 50 °C, 80 %rh or less, no condensation

Power supply: LR6(AA) alkaline battery X2

Max. rated power: 0.6 VA

Operating time: Approx. 20 hours (3662-20, continuous CW output)

Approx. 36 hours (3663-20, continuous CW output)

Dimensions: Approx. 76 W X159 H (including 36 mm cover) X

35 D mm, Approx. 180g (without batteries) (Approx. 3.00"(W)6.26" (H)1.38" (D), Approx. 6.35 oz.)

* HIOKI reference wavelength

The calibration wavelength is a value inherent to the light source used for adjustment and calibration purposes. Normally, the sensitivity of a light receiver will be wavelength dependent, and there will also be individual tolerances. The output be wavelength dependent, and there will also be interfacted increases. In output of the laser light source used for adjustment and calibration purposes will have the inherent wavelength of the source. For reasons related to continued equipment maintenance, it is not possible to specify a constant value for this wavelength In order to avoid ambiguity when stating measurement accuracy, we therefore use the expression "HIOKI reference wavelength".

LASER LIGHT SOURCE 3662-20 (1550 nm) LASER LIGHT SOURCE 3663-20 (1310 nm)

Includes hand strap, carrying case (for 3662-20, 3663-20 main unit) with both models

The 3662-20 and 3663-20 are Class 1 Laser products conforming to IEC 60825-1 CLASS 1 LASER PRODUCT

For optical fiber cable measurement with the 3662-20 and 3663-20, an optional connector adapter must be selected.

3662-20, 3663-20 options



FC CONNECTOR **ADAPTER** 9733



SC CONNECTOR ADAPTER 9734

3661-20, 3662-20, 3663-20 common options



CARRYING CASE 9730 (Holds 3661-20, 3662-20 and 3663-20)



FC-FC OPTICAL FIBER CABLE 9735 SC-SC OPTICAL FIBER CABLE 9736 SC-FC OPTICAL FIBER CABLE 9737 (1.3 μ m-band single-mode optical fiber cable, 2 m)



OPTICAL CONNECTOR **CLEANER 9738**



SPARE CLEANER 9739 (30 m X 6 rolls set)



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