

Improved!

Wider wavelength range
800 to 1660 nm

(Register up to 8 custom wavelengths
adjustable in 5nm units)

HIOKI

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

Optical/Telecom Measurement



Reliable Testing of Optical Power Loss



3661-20
includes
Memory
&
USB^{1.1}
Interface



www.hioki.com

HIOKI company overview, new products, environmental considerations
and other information are available on our website.

ISO 9001 ISO 14001
JQA-E-90091



pdf.dzsc.com

查询"3661-20"供应商

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

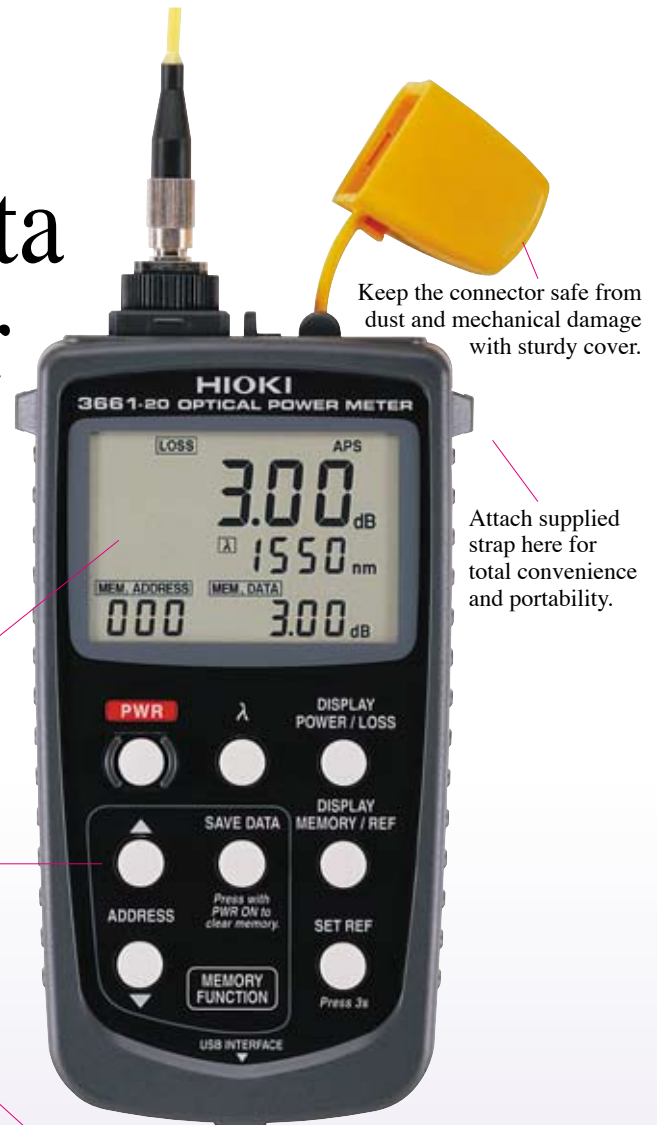
Large Memory

*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



Keep the connector safe from dust and mechanical damage with sturdy cover.

Attach supplied strap here for total convenience and portability.

Optical Loss measurement

After obtaining an optical power value to be used as reference, the measurement result is compared to this reference and the loss is automatically shown on the display.

Step 1

Connect light source to 3661-20 with short reference cable (about 2 m).

Step 2

Select wavelength to be measured according to light source.

Step 3

Switch to POWER display to measure optical power received from light source. Store this as reference value.

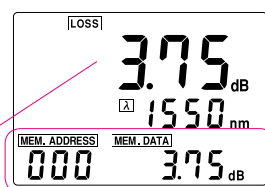
Step 4

Connect light source and 3661-20 to both ends of cable to be measured.

Step 5

Switch to the LOSS display to measure power loss.

Store the results in memory.



Top view of 3661-20

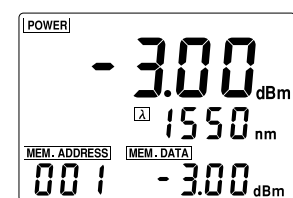
Attach connector cover here to prevent dust from accumulating on the connector.

Mount optional FC or SC connector here.



Optical Power measurement

Easily measure absolute value of input optical power. Save results in memory.



[查询"3661-20"供应商](#)



3662-20: 1550 nm 3663-20: 1310 nm Two types of laser light sources

Features of 3662-20 3663-20

- Compact size for easy handling
Dimensions: approx. 76 (W) × 159 (H, including cover) × 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.

Top view of 3662-20

Mount optional FC or SC connector here.



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

Hand strap

Transfer up to 1000 data for each wavelength

To PC



USB connector with dust cover

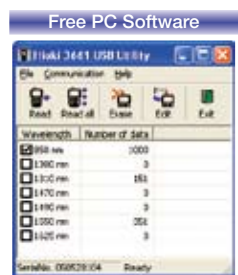


Use supplied USB cable

Saved data collected with the 3661-20 in the field can be downloaded to a computer via the USB interface. The data are in CSV format, suitable for further processing with spreadsheet software.

Software Specifications

- Operating environment: Windows 98, Me, 2000, and XP. CPU, RAM and display requirements follow the specifications of the respective operating 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



Example of data imported into Excel

Address	Power	Loss	Loss	Loss	Loss	Loss	Loss	Loss	Loss
1000	100	100	100	100	100	100	100	100	100
1001	100	100	100	100	100	100	100	100	100
1002	100	100	100	100	100	100	100	100	100
1003	100	100	100	100	100	100	100	100	100
1004	100	100	100	100	100	100	100	100	100
1005	100	100	100	100	100	100	100	100	100
1006	100	100	100	100	100	100	100	100	100
1007	100	100	100	100	100	100	100	100	100
1008	100	100	100	100	100	100	100	100	100
1009	100	100	100	100	100	100	100	100	100
1010	100	100	100	100	100	100	100	100	100
1011	100	100	100	100	100	100	100	100	100
1012	100	100	100	100	100	100	100	100	100
1013	100	100	100	100	100	100	100	100	100
1014	100	100	100	100	100	100	100	100	100
1015	100	100	100	100	100	100	100	100	100
1016	100	100	100	100	100	100	100	100	100
1017	100	100	100	100	100	100	100	100	100
1018	100	100	100	100	100	100	100	100	100
1019	100	100	100	100	100	100	100	100	100
1020	100	100	100	100	100	100	100	100	100
1021	100	100	100	100	100	100	100	100	100
1022	100	100	100	100	100	100	100	100	100
1023	100	100	100	100	100	100	100	100	100
1024	100	100	100	100	100	100	100	100	100
1025	100	100	100	100	100	100	100	100	100
1026	100	100	100	100	100	100	100	100	100
1027	100	100	100	100	100	100	100	100	100
1028	100	100	100	100	100	100	100	100	100
1029	100	100	100	100	100	100	100	100	100
1030	100	100	100	100	100	100	100	100	100
1031	100	100	100	100	100	100	100	100	100
1032	100	100	100	100	100	100	100	100	100
1033	100	100	100	100	100	100	100	100	100
1034	100	100	100	100	100	100	100	100	100
1035	100	100	100	100	100	100	100	100	100
1036	100	100	100	100	100	100	100	100	100
1037	100	100	100	100	100	100	100	100	100
1038	100	100	100	100	100	100	100	100	100
1039	100	100	100	100	100	100	100	100	100
1040	100	100	100	100	100	100	100	100	100
1041	100	100	100	100	100	100	100	100	100
1042	100	100	100	100	100	100	100	100	100
1043	100	100	100	100	100	100	100	100	100
1044	100	100	100	100	100	100	100	100	100
1045	100	100	100	100	100	100	100	100	100
1046	100	100	100	100	100	100	100	100	100
1047	100	100	100	100	100	100	100	100	100
1048	100	100	100	100	100	100	100	100	100
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1067	100	100	100	100	100	100	100	100	100
1068	100	100	100	100	100	100	100	100	100
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1070	100	100	100	100	100	100	100	100	100
1071	100	100	100	100	100	100	100	100	100
1072	100	100	100	100	100	100	100	100	100
1073	100	100	100	100	100	100	100	100	100
1074	100	100	100	100	100	100	100	100	100
1075	100	100	100	100	100	100	100	100	100
1076	100	100	100	100	100	100	100	100	100
1077	100	100	100	100	100	100	100	100	100
1078	100	100	100	100	100	100	100	100	100
1079	100	100	100	100	100	100	100	100	100
1080	100	100	100	100	100	100	100	100	100
1081	100	100	100	100	100	100	100	100	100
1082	100	100	100	100	100	100	100	100	100
1083	100	100	100	100	100	100	100	100	100
1084	100	100	100	100	100	100	100	100	100
1085	100	100	100	100	100	100	100	100	100
1086	100	100	100	100	100	100	100	100	100
1087	100	100	100	100	100	100	100	100	100
1088	100	100	100	100	100	100	100	100	100
1089	100	100	100	100	100	100	100	100	100
1090	100	100	100	100	100	100	100	100	100
1091	100	100	100	100	100	100	100	100	100
1092	100	100	100	100	100	100	100	100	100
1093	100	100	100	100	100	100	100	100	100
1094	100	100	100	100	100	100	100	100	100
1095	100	100	100	100	100	100	100	100	100
1096	100	100	100	100	100	100	100	100	100
1097	100	100	100	100	100	100	100	100	100
1098	100	100	100	100	100	100	100	100	100
1099	100	100	100	100	100	100	100	100	100

Related products

Network Construction with One Single Instrument

- Wiremap (Detect Split Pairs with Wiring Check)
- Cable Length (Get NVP-Enhanced Measurement Accuracy)
- Direction (Identify Up to 21 Cable Destinations)

LAN CABLE HiTESTER 3665-20

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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 functions	Optical power measurement (dBm) 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)	±0.22 dB (±5 %) at -10 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 μm 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 standards	Safety: EN61010-1 Pollution degree 2 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 battery×4
Max. rated power	0.5 VA
Operating time	Approx. 40 hours (continuous use)
Dimensions and mass	Approx. 85 W ×192 H (including 36 mm cover) × 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 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 μm-band single-mode optical fiber cable, 2 m)



OPTICAL CONNECTOR CLEANER 9738



SPARE CLEANER 9739
(30 m × 6 rolls set)

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3662-20, 3663-20 LASER LIGHT SOURCE Specifications

Specifications apply to temperature range 23 °C ±5 °C, single mode fiber, FC master 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 wavelength	Output : 1310 ±20 nm (3663-20) 1550 ±20 nm (3662-20)
Spectrum width	5 nm max.
Output level	-6 ±2 dBm
Output level stability	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 standards	Safety: EN61010-1 Pollution degree 2 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×2
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 and mass	Approx. 76 W ×159 H (including 36 mm cover) × 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 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.