

OPTICAL POWER METER UNI-T UT692

رائدة في أجهزة القياس – UNI-T: الشركة المصنعة ✓
نطاق قياس القدرة الضوئية ✓ UT692: والاختبار ✓ الموديل

- UT692D: 70- dBm إلى 10+ dBm
- UT692G: 50- dBm إلى 26+ dBm

نطاق الطول الموجي: 800 - 1700 نانومتر ✓ الطول ✓
الموجي المُعايير: 850، 980، 1300، 1310، 1490، 1550،
1625، 1650 نانومتر ✓ دقة القياس: $\pm 5\%$ ✓ نوع الموصل
نوع الكاشف ✓ (عبر محولات ST و SC متوافق مع) FC
وظيفة الإيقاف التلقائي بعد 10 دقائق من عدم ✓ InGaAs
إضاءة خلفية + مصباح LCD الاستخدام لتوفير الطاقة ✓ شاشة
يدوي مدمج للعمل في ظروف الإضاءة المنخفضة ✓ مقاوم
ضد الغبار IP65 للصدمات (يتحمل السقوط من 2 متر) ومصنف
ويستمر حتى 60 ساعة تشغيل AA والماء ✓ يعمل ببطاريات
متواصل



The **UNI-T UT692** is an optical power meter designed for measuring the power of optical signals in fiber optic communication systems. It is commonly used by network technicians and engineers to test and maintain fiber optic networks. Below are some key features and specifications of the UNI-T UT692:

Key Features:

1. Wide Wavelength Range:

- Typically supports wavelengths commonly used in fiber optics, such as 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, and 1625 nm.

2. High Accuracy:



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- Provides precise measurements with low uncertainty, ensuring reliable results for fiber optic testing.
- 3. **Auto Power-Off:**
 - Helps conserve battery life by automatically turning off the device after a period of inactivity.
- 4. **LCD Display:**
 - Features a clear, easy-to-read display for quick and accurate readings.
- 5. **Compact and Portable:**
 - Lightweight and portable design makes it suitable for fieldwork.
- 6. **Battery Powered:**
 - Operates on standard batteries, making it convenient for use in various environments.
- 7. **Relative Power Measurement:**
 - Allows users to measure relative power levels, which is useful for comparing signal strengths.
- 8. **Calibration:**
 - Can be calibrated for different wavelengths to ensure accurate measurements.

Typical Applications:

- Testing and troubleshooting fiber optic networks.
 - Measuring optical power in telecommunications, CATV, and data communication systems.
 - Verifying the performance of optical transmitters, receivers, and connectors.
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Specifications (may vary depending on the model):

- **Measurement Range:** Typically from -70 dBm to +10 dBm (exact range may vary).
 - **Wavelength Range:** 800 nm to 1700 nm (covers most single-mode and multimode fibers).
 - **Accuracy:** ± 0.2 dB to $\pm 5\%$ (depending on wavelength and power level).
 - **Detector Type:** InGaAs (common for high-accuracy optical power meters).
 - **Connector Type:** FC/PC, SC/PC, or other standard fiber optic connectors.
 - **Power Supply:** Usually 9V battery or similar.
 - **Operating Conditions:** Designed to work in a range of temperatures and humidity levels.
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How to Use:

1. **Turn on the Device:** Power on the UT692 and allow it to initialize.
 2. **Select Wavelength:** Choose the appropriate wavelength for your measurement (e.g., 1310 nm or 1550 nm).
 3. **Connect the Fiber:** Attach the fiber optic cable to the device using the appropriate connector.
 4. **Read the Measurement:** The optical power level will be displayed on the LCD screen.
 5. **Interpret Results:** Compare the measured power with expected values to diagnose issues or verify performance.
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Tips for Accurate Measurements:

- Ensure the fiber connector is clean and free of dust or debris.
- Calibrate the device regularly for optimal accuracy.



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- Use the correct wavelength setting for the type of fiber and signal being tested.