

RT-19N Fiber Identifier



Operating Instructions:

1. **Power On/Off:** Press the power button briefly to turn on the device. All indicator lights (except the Bluetooth indicator) will illuminate for approximately 1 second and then turn off, indicating that the device has entered the normal testing mode. Press and hold the power button for 2 seconds to turn off the device.
2. **Testing:** The device can test optical fibers with core diameters of 3mm, 2mm, 0.9mm, 0.25mm, etc.

The device is factory-calibrated with a 2mm patch cord as the standard. It tests the accuracy of power and direction at -5dBm and -35dBm, as well as the recognition of 270Hz, 1KHz, and 2KHz frequencies around -20dBm.

The power value tested with a 3mm patch cord may be slightly higher, but it is basically the same as the test result with a 2mm patch cord.

The power deviation of the test result with a 0.9mm patch cord will be larger, and the deviation is approximately 2 indicator levels depending on the clamping position and tightness. For 0.25mm optical fibers, you

need to pinch the exposed optical fiber on both sides of the fixture and push inward to perform the test.

Meanings of Each Indicator Light on the Panel:



- Left LED: Illuminates when the light in the optical fiber is from right to left.
- Right LED: Illuminates when the light in the optical fiber is from left to right.
- 270Hz, 1KHz, 2KHz LEDs: The illumination of any of these LEDs indicates that the corresponding frequency of light is present in the optical fiber.

- dBm LED: Illuminates to indicate the optical power in the fiber. For example, the illumination of the LED at the -20 position indicates that the optical power in the fiber is $\geq -20\text{dBm}$.
- Battery LED: Has three colors: green, yellow, and red. It lights up green when the voltage is $> 3.63\text{V}$, yellow when the voltage is between 3.63V and 3.4V , and red when the voltage is between 3.4V and 3.3V . The device will automatically shut down when the voltage is below 3.3V .
- The device will automatically shut down after 1 hour of being turned on by default.
- Bluetooth LED (Optional): The standard version does not have Bluetooth. For the version with Bluetooth, this LED will illuminate when connected to a mobile phone via Bluetooth. The default Bluetooth name starts with "FI" and consists of 12 characters in total, and the default connection password is (1234).