

Multimeter Testing of Ultraviolet Light Tubes



Overview

A digital multimeter is the only tool required. Always unplug the fixture from wall power before removing. Among these, Ultraviolet (UV) light, particularly in its UVC spectrum, has emerged as a powerful and indispensable tool for disinfection, widely used in everything from water purification systems and air purifiers to medical facilities and surface sanitizers. Its ability to effectively neutralize. The fastest way to test a fluorescent tube is with a multimeter set to continuity mode. Each end of the tube has two pins connected by a thin filament inside the glass. Thus, I purchased an Arduino UV sensor chip (Adafruit 1918 Analog UV Light Sensor Breakout - GUVAS12SD). I am not very savvy with wiring or electricity, but the hope is to be able to rig the chip to a multimeter and test the voltage put out by. Our main products are Goniophotometer, Spectroradiometer, Integrating Sphere, LED Test Instruments, CFL Test Instruments, Photometer and Colorimeter, EMC & EMI Testing, Surge Generator, Electrical Safety Testing, Environmental Test Chamber, IP Waterproof Test Equipment, Dustproof Test Chamber, High. Testing a UV light means measuring whether it actually emits ultraviolet radiation at the intensity and wavelength you need.



Article Content

Jun 19, 2026

How to Test a Fluorescent Tube with a Multimeter

Learn how to use a multimeter to test a fluorescent tube's filaments and figure out whether the tube, starter, or ballast is causing the problem.

Feb 05, 2026

UV-Vis Spectroscopy: Principles, Strengths and

Ultraviolet-visible (UV-Vis) spectroscopy is a widely used technique in many areas of science ranging from bacterial culturing, drug identification and

Jun 02, 2026

UVC Testing, Certification and Safety Services | UL

UV testing and certification In recent years, the use of ultraviolet-C (UVC) lighting technology for sanitization has expanded into markets including lighting,

Dec 23, 2025

Photomultiplier Tube | High Sensitivity, Speed & Accuracy

Photomultiplier Tubes (PMTs) are highly sensitive detectors of light in the ultraviolet, visible, and near-infrared ranges. These devices are renowned for

Dec 23, 2025

How to Test a UVB Bulb to See if It's Still Working!

Just because your old UVB bulb turns on, it doesn't necessarily mean it's still giving your animal enough UVB! Today, Jennii will show you how we measure UVB ...

Apr 03, 2026

Instrument Validation and Inspection Methods

The theme of this UV TALK LETTER is the instrument validation of UV-VIS spectrophotometers. Instrument validation is essential for determining the condition of your instrument. Here, we will give

Feb 09, 2026

How to check the quality of fluorescent lamps with a multimeter

How to use a multimeter to detect fluorescent lamps How are the four pins of an ordinary fluorescent tube (light bar) connected internally, what is its working principle, and how to use a

Dec 22, 2025

LED Tube Light Test with Multimeter: A Simple Step-by-Step Tutorial

LED tube lights have become increasingly popular due to their energy efficiency, long lifespan, and versatility. However, like any electrical device, they can occasionally malfunction and

Nov 14, 2025

10.3: UV/Vis and IR Spectroscopy

In Figure 10.1.9 we examined Nessler's original method for matching the color of a sample to the color of a standard. Matching colors is a labor intensive process for

Oct 09, 2025

How to Test a Fluorescent Tube With a Multimeter

When a fluorescent light fixture fails, homeowners often wonder if the tube or the fixture's internal components are the source of the problem. Fluorescent tubes rely on small heating elements, known

May 29, 2026

How To Test A Uv Bulb With A Multimeter? A Simple Guide

This post will delve into the practical aspects of using a multimeter to test UV bulbs, covering different testing methods, potential challenges, safety precautions, and interpreting the results.

Oct 21, 2025

How to Test UV Light: Meters, Sensors, and Safety

Learn how to accurately measure UV light using meters and sensors, with practical safety tips for testing UVA, UVB, and germicidal UVC lamps.

Aug 07, 2025

How to Check UV Lamp is Working

To check if a UV lamp is functioning correctly, you should look for signs of wear or damage, test the ultraviolet output of the lamp, and check to see

Jan 13, 2026

The Basics of UV-Vis Spectroscopy

Spectroscopy allows the study of how matter interacts with or emits electromagnetic radiation. There are different types of spectroscopy, depending on the wavelength range that is being measured. UV-Vis

Apr 01, 2026

how to test a uv light with a multimeter

It is recommended to use an ultraviolet radiation meter (UV meter) such as the UV lamp intensity meter LS126C for professional detection of UVC wavelength or the multi-probe UV lamp intensity meter

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How To Check Tube Light With Multimeter?

The testing procedure will vary slightly depending on whether you are dealing with a traditional fluorescent tube light or a modern LED tube light, as their internal components and failure

Aug 21, 2025

how to test a uv light with a multimeter

Use a multimeter With your multimeter set to ohm, or "Xl1" if there are multiple ohms on your meter, insert one of the probes into the wire connector containing the white wires. The higher the intensity of

Nov 20, 2025

LS125 Multi-probe UV Light Meter Host

No, the test data of LS125 UV light meter can only be read on the display screen of the host. If you need to export the data, you can learn about our UV energy meter

Aug 26, 2025

How to Test Uv Light Strength | 10 Effective Methods

Testing the strength of UV light is essential for ensuring the efficiency and safety of various applications, such as sterilization, UV curing, and air

Oct 21, 2025

Micom UV Testing eBook 2024

With years of specialized technology testing expertise, in-depth experience and absolute commitment to customer care, our team of experts does more than simply test your products. Micom Laboratories

Sep 11, 2025

Methods for Measuring UV Light: A Comprehensive Guide

Understanding ultraviolet (UV) light involves more than just knowing it exists; it requires a grasp of the methods used to measure it, which have become

May 31, 2026

Methods for Measuring UV Light: A Comprehensive Guide

Explore methods for measuring UV light, their significance across fields, and the tech involved. Safety tips included! ☐☐☐☐ Measure UV light accurately!

Jan 09, 2026

How To Test Fluorescent Light Fixture With Multimeter ...

Remove the Tube: Carefully remove the fluorescent tube from the fixture. Set the **Multimeter:** Set your multimeter to the continuity setting (usually indicated by a diode symbol or a

Mar 22, 2026

Using a multimeter to read values off of a UV sensor

Extend your light-sensing spectrum with this analog UV sensor module. It uses a UV photodiode, which can detect the 240-370nm range of light

Mar 31, 2026

How To Test A Uv Light With A Multimeter?

This comprehensive guide will walk you through the process, empowering you to diagnose and potentially resolve common UV light malfunctions using a multimeter, ensuring your

Mar 12, 2026

UV and VIS Spectral Transmission Tests | Solar Light

Solar Light Company provides precise spectral transmission analysis for materials in UV and VIS spectra, with optional detailed reports based on ASTM E903 standards.

Jul 12, 2025

How to check if a UV sanitizer is working: Guide to UV

It is even better if they can provide a table with the test distances. The further from the lamp, the lower the light intensity will be. If they give you a light

May 04, 2026

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In this video you can see very clearly how to test the SMD LED inside this light using a multimeter and how the SMD LED circuit connection works.Disclaimer:t...

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