

# WW2B, WW2R, WW2S, WW2T Wall Washer Series

## What is it used for?

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[WW2 wall washers series](#) is family of programmable, dimmable, LED fixtures suitable for wet, damp or dry locations and can be used indoors or out. The fixtures are available in RGB color changing output, static white colors (Warm, Neutral, and Cool) as well as WNC (an onboard choice of Warm, Neutral and Cool White). The WW2 series fixtures can be linked for longer runs.

## What is unique about it?

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The important differences between JESCO WW2 Wall Washers and other similar-looking products are as follows:

- 1) **c-UL-us listing** – We have installation options specifically aimed at US and Canadian residential and commercial applications.
- 2) **Line Voltage** - The WW2 Wall Washer series of fixtures is line voltage system which requires no additional power sources.
- 3) **Onboard Control/Programming** – The fixtures incorporate an onboard controller which allows for independent selection of 7 colors, 5 color changing effects, and step dimming for either RGB or white static colors. This onboard controller also allows for Master/Slave control of up to 30 wall washer fixtures (or 180ft) connected in series. The fixtures can also be controlled and programmed by an optional DMX controller.
- 4) **Accessories** – JESCO offers a deep line of [accessories](#) all intended to simultaneously satisfy the designer, the installer and the electrical inspector all while pleasing the owners bank account and eye. [Glare Shields](#) are also available for the WW2B, WW2S, WW2T fixtures to frame the light output and to shield the view of the lit LEDs.
- 5) **Quality** – JESCO has the highest quality LED sources of our own specification.
- 6) **Depth of line** – We offer many shapes and lengths to fit any application

Reliable, sophisticated, installation-friendly and code-compliant. All of which add up to a turnkey product line that remains the industry leader today.

## What is the standard operating voltage for the WW2 Series? Can I plug the fixture directly in to a standard 120V US outlet?

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Yes, the standard voltage is 120V and all the fixtures are provided with a 59" electrical cord and a grounded three conductor plug.

## What is the maximum DMX run length possible using the WW2 series?

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A DMX signal amplifier is required every 30 fixtures or 180 feet - 450 feet maximum if there is no signal interference.



## Is there a minimum installed run length for the WW2 series?

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The minimum installed is one fixture.

## How can I connect fixtures?

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The WW2 product line has an extensive offering of [connecting cables](#) for every application. Outdoor, wet location plug and play cables are available for DMX interconnecting fixtures and to connect DMX controllers.

## How do I mount a WW2 series fixture?

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Decide on your mounting location keeping in mind that these fixtures are not submersible. Each fixture is provided with either two adjustable mounting brackets or a base with built-in mounting holes which are attached to your structure using the appropriate means for your specific application. See the individual instruction sheet for detailed installation information.

## Is the WW2 series waterproof?

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Yes, the series is UL listed for use in wet and damp locations and is designed to meet an IP65 rating.

Please note that the fixture cannot be submersed in water.

## Can the WW2 be mounted in indoor applications?

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Yes. These fixtures are often used indoors to wall wash interior walls of retail and commercial spaces and used for theatrical effects and to highlight architectural features.

## Is there anything special I need to do when mounting the fixture outdoors?

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No. The only requirement is that, if used outdoors, the end of each run must be capped off using the Outdoor End Cap, [WW2-EC](#). The other requirement is that the power supply connection is done to meet local and NEC codes.

## Can I control it?

## Can I connect it to my building control system?

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Yes, that is the fun of the product! The WW2 series is provided with an onboard controller which allows for independent selection of 7 colors, 5 color changing effects, and step dimming for either RGB or white static colors.

This onboard controller also allows for Master/Slave control of up to 30 wall washer fixtures (or 180ft) connected in series. The fixtures can also be controlled and programmed by an optional DMX controller.

Complex interfaces use the industry standard lighting control protocol "DMX" which means our WW2 series fixtures can very easily be connected to even the most complex of entertainment industry controllers.



Talk to your JESCO representative about what you want your fixtures to do – and we will be able to come up with a way of doing it.

## What types of optional DMX controllers do you offer?

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Using JESCO RGB control systems you can alternately dial in a color or select a series of colors in turn – up to 16 million colors are available from JESCO DMX controller systems. Color changes can range from seconds through days in length. Depending on the selected control system you can change color locally, remotely- by wireless radio frequency - or even via the internet or your smart phone. (Internet / smart phone with the assistance of your local digital systems integrator and using JESCO DMX control equipment).

Turning on all colors (R+G+B) on at once produces cool white.

We offer various control systems depending on your design specifications and budget.

[LC-PC-100](#) This unit is a DMX control – software based and user programmable via PC USB. Programs are loaded via a software programming interface. You can program up to 512 channels - each with 255 levels of dimming possible. The unit features a 2 button user interface.

[LC-PC-400](#) is similar to the LC-PC-100 but designed as a wall mount with a glass touch screen interface. This unit is a DMX control – software based and user programmable via PC USB. Programs are loaded via a software programming interface. You can program up to 512 channels - each with 255 levels of dimming possible. The unit features a 3 button user interface.

[LC-PC-500](#) is an advanced RGB and dimming controller that is user programmable via a PC USB. Programs are loaded via software programming interface. It features touch screen wall plate with advanced scene, dimming and color control. You can program up to 512 channels - each with 255 levels of dimming possible. The unit features a 13 button user interface. It can also be interfaced via internet / smart phones.

## Are any accessories available for the DMX controllers?

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We offer a DMX [Signal Amplifier](#) which is required for runs over 180 feet or 30 fixtures to maintain DMX signal integrity.

We also offer a 4-Port and 8-Port [DMX Splitter](#) for installations requiring parallel runs programmed from a single DMX controller.

## How do I replace a WW2 fixture?

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Typically, you will not see any failures in our WW2 series fixture for many, many years. In the rare event of a premature failure, a fixture can be replaced within an installed run by simply unplugging the bad fixture and replacing it with a new one.

## What are the recommended applications for the WW2 series?

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WW2 Series wall washers and flood lights can be used outdoors or indoors. Applications include stores, restaurants and nightclubs effect lighting on interior/exterior walls, columns and curtains; indoor/outdoor sculptures; concert stage lighting (mounted on standard clamps); retail windows and showroom backgrounds; highlighting and color splashing of high-rise structural details; light residential, restaurant and hotel facades for decorative and security purposes; lighting of parks to improve safety and evening enjoyment; building entries and lobbies; color changing on building facades for branding, color coding and holiday decorations.



## How long do your LEDs last?

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JESCO LEDs in the WW2 family are designed to meet or exceed a Rated Lumen Maintenance Life or  $L_{70}$  of 50,000 hours (Meaning the LEDs will maintain at least 70% of their original lumen output after the fixture has been on for 50,000 hours).

That being said, exceeding the operating temperature values may damage the LEDs by reducing the lifespan, lumen output, and/or adversely impact color consistency. It is recommended that adequate airflow and heat sinking be taken into consideration in the installation and application of this product. Improper thermal management may lead to premature product failure and void the warranty. See the product specification sheets for more information.

## Why choose LED over any other type of lighting?

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LEDs have caused a revolution in lighting. JESCO has helped lead that revolution. We were one of the first manufacturers to make the shift to the LED light source many years ago. Our LEDs are of the highest quality and they are time-tested to be dependable.

There are many reasons to make the switch to LED products. Some of the reasons include:

### **Technological Impact**

LEDs are solid state, light emitting chips that are not encased in fragile glass enclosures or use delicate and inefficient filaments. LEDs are vibration resistant. They also do not need to warm up as they are an instant-on light source. LEDs currently offer life expectancy of 50,000 hours, on average. LEDs offer much more control of correlated color temperatures and provide the option to add color(s) either monochromatically or through RGB technology. The chips are miniscule in size which allows manufacturers to design much smaller fixtures and allows designers and end users much greater flexibility incorporating and installing these fixtures on their projects.

### **Financial Impact**

The long life expectancy means a higher rate of return on investment – installed fixtures can last, at least, 10 years (depending on the design, the lifespan of the power source and the duty cycle of the fixture) with no maintenance. No maintenance means no labor costs and no replacement lamp costs associated with installed fixtures and lamps over the life of the fixture. Fixtures mounted in high or hard-to-reach locations are the prime candidates for LED lighting. LEDs are very efficient light sources and are cool to the touch unlike incandescent light sources which release 90% of their energy generated as heat. Due to the inherent cooler running temperatures of LEDs, HVAC system design loads can be scaled down. LEDs use much less energy per fixture than standard light sources guaranteeing savings in electrical costs far into the future. Lastly, many local energy providers are currently offering rebates to customers making the switch to LED fixtures.

### **Environmental Impact**

LEDs are easily recyclable. They contain no mercury or lead which require special handling and disposal. LEDs do not emit harmful UV/IR which discolors fabric, furniture and artwork. The U.S. Department of Energy [estimates](#) that rapid adoption of LED lighting in the U.S. by 2027 could deliver savings of about \$265 billion, avoid the building of 40 new power plants and reduce lighting electricity demand by 33% in 2027.

All or even one of the above stated reasons may be the right reason for you to choose a fixture with an LED light source.

The last important factor when choosing an LED fixture is scrutinizing the manufacturer of the LED chip and the incorporation of this chip into the design of the lighting fixture. As the United States EPA and DOE Energy Star program states on its website “Bad design can lead to a wide range of problems, some immediately observable and some not. Poorly designed products often come with



exaggerated claims while failing to deliver on the quality specifications provided.” Our LED products are designed around the LED light source and not the other way around making for a well-designed, color consistent and extra long-life fixture with a proven track record. With all our LED products, JESCO offers layout assistance and technical support helping make specification, as well as installation, simple.

Therefore, always look for reputable and trusted sources of LEDs and LED fixtures - be it JESCO Lighting or anyone else.

