



MTMR1650W User Manual

Revision 1.0

Introduction

The MeshTek® MR16 is an RGBW SmartBulb. Turn On/off, Change color, mix colors, change brightness remotely through any Smart device using our iOS and Android app over Bluetooth Low Energy (BLE) protocol.

Features

- Bluetooth enabled, RGBW Bulb
- Control colors from your Smart device
- Dimmable via App (not suitable for use with external dimmers)
- Download MeshTek® app to change Bulb settings
- Android and iOS compatible

Application

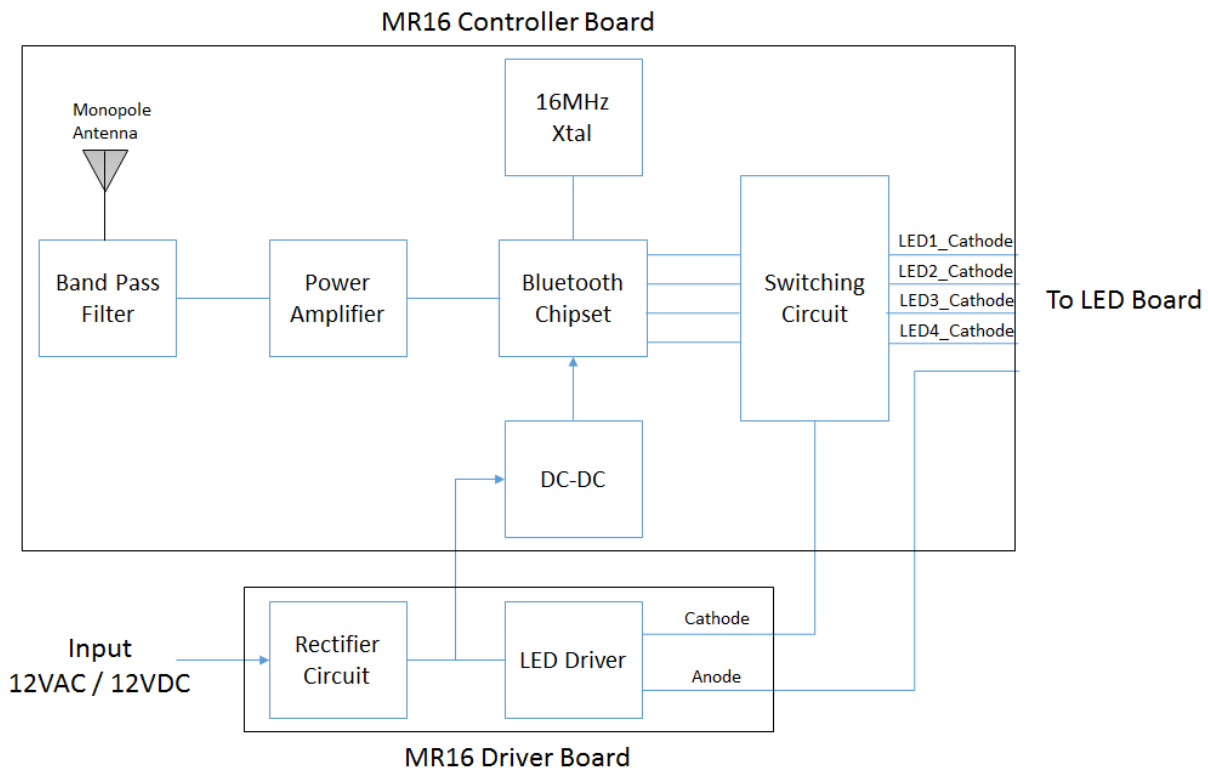
- Spotlight
- Landscape Lighting

Electrical Parameters

- Input Voltage: 12VAC / 12VDC
- Wattage: 5.5W
- Lumens: 500lm @ 4000K
- Beam Angle: 40°
- Kelvin Temperature: 2300-8000K
- Color: RGBW
- CRI: 70
- IP Rating: IP64
- Operating Temperature: 0° to 25°



Block Diagram

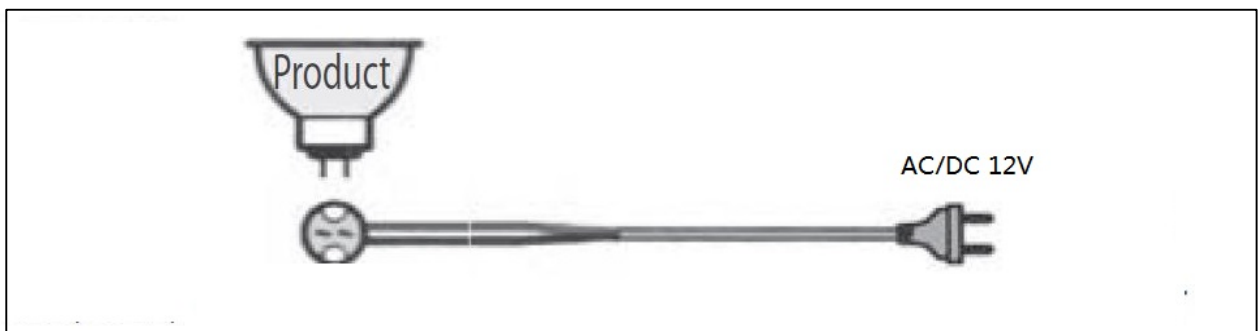


Installation Method

The basic installation method is the same as that of a standard halogen MR16.

Turn off the main power switch of the installation place prior to connection. Before installing the product, the lamp that was being used must be turned off. Replace it once it has sufficiently cooled.

- Check to see if the socket at the installation location is of the GU5.3 standard.



- Insert the MR16 SmartBulb perpendicularly into the socket and make sure that pins are fully inserted so that they aren't visible. (Be cautious: The socket or product may get damaged if excessive force is applied while handling or plugging in / out the MR16 SmartBulb)
- Turn the power switch on to see if the product is functioning correctly.
- Follow the setup process and pair the MR16 SmartBulb with MeshTek® app to turn on/off, change color, dim the brightness, etc.

REGULATORY APPROVAL

a. FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

FCC CAUTION: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Important Note: FCC RF Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

b. IC compliance

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Under Innovation, Science and Economic Development Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Innovation, Science and Economic Development Canada. To reduce potential radio interference to other users, the antenna type and its gain should be chosen in such a way that the equivalent isotropically radiated power (e.i.r.p.) is not more than that is necessary for successful communication.

Important Note: IC Radiation Exposure Statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

c. Conformité aux normes d'IC

Cet appareil est conforme à la(aux) norme(s) RSS sans licence d'Innovation, Science and Economic Development Canada. Son utilisation est soumise aux deux conditions suivantes:

- Cet appareil ne doit pas causer d'interférences et

- il doit accepter toutes interférences reçues, y compris celles susceptibles d'avoir des effets indésirables sur son fonctionnement.

Conformément aux réglementations d'Innovation, Science and Economic Development Canada, cet émetteur radio ne peut fonctionner qu'à l'aide d'une antenne dont le type et le gain maximal (ou minimal) ont été approuvés pour cet émetteur par Innovation, Science and Economic Development Canada. Pour réduire le risque d'interférences avec d'autres utilisateurs, il faut choisir le type d'antenne et son gain de telle sorte que la puissance isotrope rayonnée équivalente (p.i.r.e) ne soit pas supérieure à celle requise pour obtenir une communication satisfaisante.

Note importante: déclaration d'exposition au rayonnement IC

Cet équipement respecte les limites d'exposition aux rayonnements IC RSS-102 définies pour un environnement non contrôlé. Il doit être installé et utilisé en maintenant une distance minimum de 20 cm entre le radiateur et votre corps.