AMERICAN LIGHTING

SPEKTRUM+ SERIES

12-24V DC In-line 5-channel Smart Receiver

Spektrum+ Smart Lighting's new 5-channel Bluetooth® Mesh Receiver allows users to integrate smart device lighting control to any low voltage lighting product. Featuring dedicated controls for multi-type lighting, the Spektrum Smart Receiver is a smart choice for retrofit or new construction applications wanting smart control and connectivity.

- Low voltage in-line 5-channel Smart Receiver
- Control multiple types of lighting:
  Single Color / Tunable CCT / RGB / RGBW / RGBTW
- Use in new construction or remodel lighting applications
- Upgrade existing "dumb" lighting fixtures to be IoT connected
- Perfect for controlling nearly any type of 12-24V tape light
- Can control other manufactures low-voltage products*
- 4A maximium per channel
- Suitable for dry Location applications
  *Requires hardwire capabilities

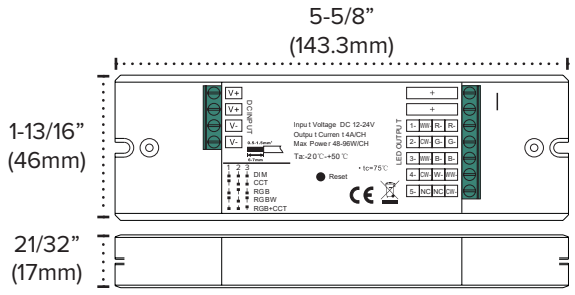
PROJECT:	
TYPE:	
LOCATION:	
CATALOG NUMBER:	

SPEKTRUM+ SMART RECEIVER QUICK SPECS

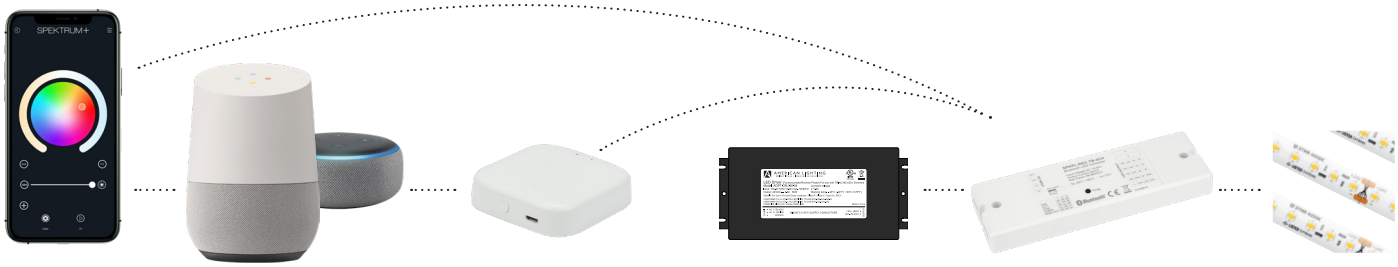
VOLTAGE	12-24V DC
OUTPUT WATTAGE	28W (12V) or 96W (24V) per channel
OUTPUT CURRENT	4A per channel
OPERATING TEMP	10°C (50°F) to 40°C (104°F)
MAX CASE TEMP	75°C (167°F)
CERTIFICATIONS	FCC Compliant - Dry Location

*Not intended for use with a standard wall switch dimmer. Use only with Spektrum+ Smart App or Spektrum+ Smart Switch control (sold separately)

SPEKTRUM+ SMART RECEIVER DIMENSIONS



SPEKTRUM+ SMART RECEIVER QUICK SET-UP



Spektrum+ Smart App

Voice Assistant
(Not Included)

Spektrum+ Smart Hub**
(Sold Separately)

12V - 24V DC Power Supply
(Sold Separately)

Spektrum+ Smart Receiver

12V - 24V DC Products
(Sold Separately)

**Spektrum+ Smart Hub Required for automation features and use with voice assistants

Sales@AmericanLighting.com | Denver, CO | 800.880.1180

SPEKTRUM+ SMART RECEIVER ORDERING INFORMATION

ITEM NUMBER	DESCRIPTION	FINISH	VOLTAGE	WATTAGE	DIMMING
SPKPL-REC-TB-5CH	5 Channel Smart Receiver	White	12V - 24V DC	28W (12V) or 96W (24V) per channel	APP Controlled

SPEKTRUM+ SMART RECEIVER ACCESSORIES

ITEM NUMBER	DESCRIPTION
SPKPL-CTRL-W-RGBTW	Spektrum+ Bluetooth® Controller
SPKPL-GTWY*	WiFi to Bluetooth® Smart Hub

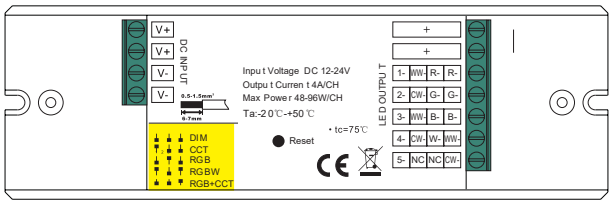
*Gateway recommended for use in every Spektrum+ application for full app functionality.

SPKPL-CTRL-W-RGBW

SPKPL-GTWY

SPEKTRUM+ SMART RECEIVER ADDITIONAL NOTES

The Spektrum+ Smart Receiver has preprogrammed outputs. These can be controlled via the dip switches marked below in yellow.



SPEKTRUM+ NOTES

CONTROLLING THE FIXTURE: The LED controller/receiver utilizes Bluetooth Wireless Technology and can be controlled via the Spektrum+ Smart Lighting App and/or the Spektrum+ Smart Switch (SPKPL-CTRL-W-RGBTW - sold separately). It is not intended to be used with a standard dimmer switch.
DISTANCE OF CONTROL CAPABILITY: 25 meters (approx. 80ft)
RESET THE DEVICE: Press and hold the reset button on the receiver for 5 seconds.
USING THE SPEKTRUM+ SMART LIGHTING APP: Please follow the Spektrum+ Smart Lighting App guide.

SPEKTRUM+ SIGNAL ATTENUATION

All claims related to signal distance are based on clear line of sight. Any obstacles impeding direct line of sight will significantly reduce the effective distance of the product. Increasing density and thickness of obstacles will further decrease the signal distance.

Material Interference Table

MATERIAL	POTENTIAL FOR RANGE REDUCTION
Wood	Low
Glass	Low
Brick	Medium
Marble	Medium
Plaster	High
Concrete	High
Metal	Very High

Best practices/troubleshooting tactics include:

- Devices using the same RF band can interfere with each other's communication. Though they cannot communicate directly, they may be able to inject noise into another system. If you experience this, the best practice is move the inadvertent receiver(s)/transmitter(s) to an alternate location or to place a barrier between the inadvertent receiver(s)/transmitter(s).
- If a receiver must be moved out of sight, make sure that the receiver is not fully enclosed and that the receiver is placed as close to the opening as possible. The signal will be able to be reflected around a corner at reduced strength.
- If an antenna is used, the signal is strongest in directions perpendicular to the direction the antenna is pointing.
- A cellphone camera can be used to test if an IR remote is transmitting a signal. Even through the infrared band is invisible to humans, the cellphone camera will pick up the IR light and display it on the screen as either a red or white light. If pressing a button does not show a light on the cellphone screen, the batteries are most likely dead and need to be replaced.

SPEKTRUM+ MAXIMUM CONSIDERATIONS (IN APP)

ITEM	QUANTITY
SIMULTANEOUS LOGINS PER ACCOUNT	200
DEVICES IN (1) APP ACCOUNT	20 homes * 200 devices
HOMES PER ACCOUNT	20
DEVICES IN A NETWORK/FAMILY/HOME	200
MEMBERS PER HOME	20
ROOMS PER HOME	20
DEVICES PER ROOM	50
DEVICES PER GROUP	100
DEVICE GROUPS PER HOME	20
DEVICES LINKED TO A SINGLE GATEWAY/REMOTE	128
SCHEDULES PER DEVICE	30
SCENES IN A HOME	100
AUTOMATIONS IN A HOME	100
ACTIONS IN A SCENE	150
ACTIONS IN A AUTOMATION SCENE	150
CONDITIONS IN AN AUTOMATION SCENE	10
USER THAT CAN SHARE A DEVICE GROUP	20
USERS THAT CAN SHARE A SINGLE DEVICE	20
HOMES THAT (1) APP ACCOUNT CAN JOIN	20