SPEKTRUM+ SERIES

Twilight Trim Permanent Eave Lighting

The Spektrum+ Twilight Trim is where elegance meets innovation. These discreet lights remain invisible by day and come alive at night. With fully customizable color temperatures and smart brightness controls, it's more than lighting—it's a transformative design experience.

- Spektrum+ Smart Lighting App
- Control each dot individually or use designer presets to control
- Easy to install pre-set interconnectable lengths to suit any form factor: 1 dot, 5 dot, 10 dot, 25 dot, 50 dot, or 100 dot options
- Surface mount and 45 degree channel designs available
- Anodized aluminum channel is paintable in-field; custom powder coating available
- 12" Spacing on dots; 9" spacing on channel
- Rated for use in wet locations
- NEMA 4 control & power box

RGBW

PROJECT:	
TYPE:	
LOCATION:	
CATALOG NUMBER:	

Download on the App Store

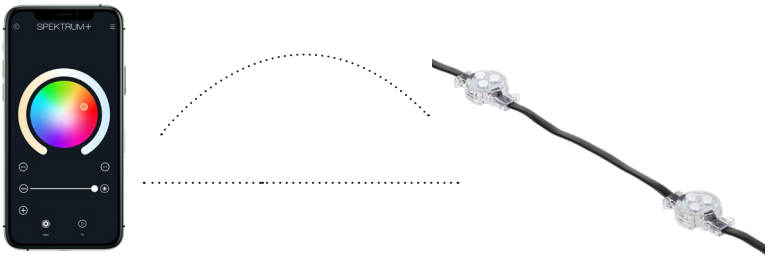
GET IT ON Google Play

SPEKTRUM+ TWILIGHT TRIM QUICK SPECS

VOLTAGE	24V DC
WATTAGE	0.5W per module
LUMENS	23Lm per dot
COLOR/CCT	RGBW (3000K)
CRI	80+
DIMMING	Spektrum+™ Smart App (0-100%)*
BEAM ANGLE	90°
IP RATING	IP65
MAX RUN	160 Dots per port on control/power box (96W each line) Optional power injection box available for longer runs
AMBIENT TEMP	-25°C (-13°F) ~ 60°C (140°F)
OPERATING TEMP	-25°C (-13°F) ~ 60°C (140°F)
STORAGE TEMP	-40°C (-40°F) ~ 75°C (167°F)
CERTIFICATIONS	cETLus Listed, Wet Locations, FCC Compliant
RATED LIFE	25,000 Hours

*Not intended for use with a standard wall switch dimmer. Use only with Spektrum+ Smart App.

SPEKTRUM+ TWILIGHT TRIM QUICK SET-UP



Spektrum+ Smart App

Spektrum+ Twilight Trim

SPEKTRUM+ TWILIGHT TRIM ORDERING INFORMATION

ITEM NUMBER	DESCRIPTION	DOT QTY	SPACING	VOLTAGE	CCT	CRI	LUMENS	WATTAGE	MAX RUN	DIMMING
SPKPL-TT-DOT-100	Twilight Trim	100	12”	24V DC	RGBW	80+	23Lm/Dot	50W	160 Dots	App Controlled
SPKPL-TT-DOT-50	Twilight Trim	50	12”	24V DC	RGBW	80+	23Lm/Dot	25W	160 Dots	App Controlled
SPKPL-TT-DOT-25	Twilight Trim	25	12”	24V DC	RGBW	80+	23Lm/Dot	12.5W	160 Dots	App Controlled
SPKPL-TT-DOT-10	Twilight Trim	10	12”	24V DC	RGBW	80+	23Lm/Dot	5W	160 Dots	App Controlled
SPKPL-TT-DOT-5	Twilight Trim	5	12”	24V DC	RGBW	80+	23Lm/Dot	2.5W	160 Dots	App Controlled
SPKPL-TT-DOT-1	Twilight Trim	1	12”	24V DC	RGBW	80+	23Lm/Dot	0.5W	160 Dots	App Controlled

Each string include pre-attached connectors with 6inch lead and 6inch tail wires.
3pin Cable: 18AWG V+ & V- Wires, 22AWG Data wires

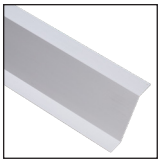
SPEKTRUM+ TWILIGHT TRIM MOUNTING CHANNEL

ITEM NUMBER	DESCRIPTION
SPKPL-TT-CHANBASIC-9IN-2M	Twilight Trim Basic Facer Channel with 9in Hole Spacing; 80.75 inches Length; Use with Backer, ZFlash, or Clips
SPKPL-TT-CHANCHASE-2M	Twilight Trim Chase Channel for Wiring; 80.75 inches Length; Use with Backer or Clips as cable raceway
SPKPL-TT-CHANBACKER-2M	Twilight Trim Backer Channel; 80.75 inches Length; Use with Basic or Chase Channel as base
SPKPL-TT-CHANZFLASH-2M	Twilight Trim Z Flashing; 80.75 inches Length; Use with Basic Channel
SPKPL-TT-CHAN45-9IN-2M	Twilight Trim 45 Degree Channel with 9in Hole Spacing; 80.75 inches Length
SPKPL-TT-CHANCLIP-4PK	Twilight Trim Mounting Clip; 4 Pack; Use with Basic or Backer Channel

CHANBASIC

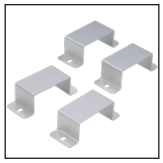
CHANCHASE

CHANBACKER



CHANZFLASH

CHAN45



CHANCLIP

SPEKTRUM+ TWILIGHT TRIM ACCESSORIES

ITEM NUMBER	DESCRIPTION
SPKPL-TT-CTRLBOX	(Required for all installations) Controller with integrated gateway and 24V DC 2x 192W (2x96W) power supply in plastic enclosure, cULus Listed, FCC Compliant, 120-277V AC Input - Requires 2.4Ghz Wifi
SPKPL-TT-PWRAUX-192	Auxiliary power supply for power injection, 24V DC 192W (2x96W) power supply in plastic enclosure, cULus Listed, FCC Compliant, 120-277V AC Input
SPKPL-TT-SIGBOOST	Signal Booster; for use when lead exceeds 6 meters
SPKPL-TT-JUMP-1	Twilight Trim 1 Foot Jumper Cable
SPKPL-TT-JUMP-2	Twilight Trim 2 Foot Jumper Cable
SPKPL-TT-JUMP-5	Twilight Trim 5 Foot Jumper Cable
SPKPL-TT-JUMP-10	Twilight Trim 10 Foot Jumper Cable
SPKPL-TT-TCON	Twilight Trim T-Connector for Power Injection
SPKPL-TT-ENDPI-30	Twilight Trim 30ft Power Injection End Cable
SPKPL-TT-PSL-30	Twilight Trim 30ft Power/Signal Lead Cable; for use with SPI controller box

CTRLBOX

AUXPWR

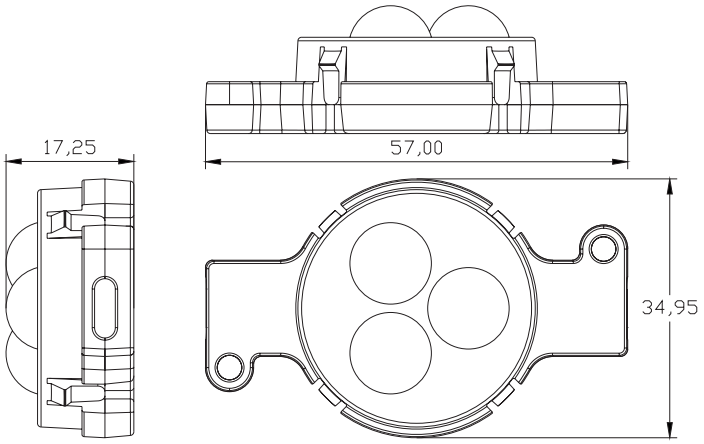
JUMP

TCON

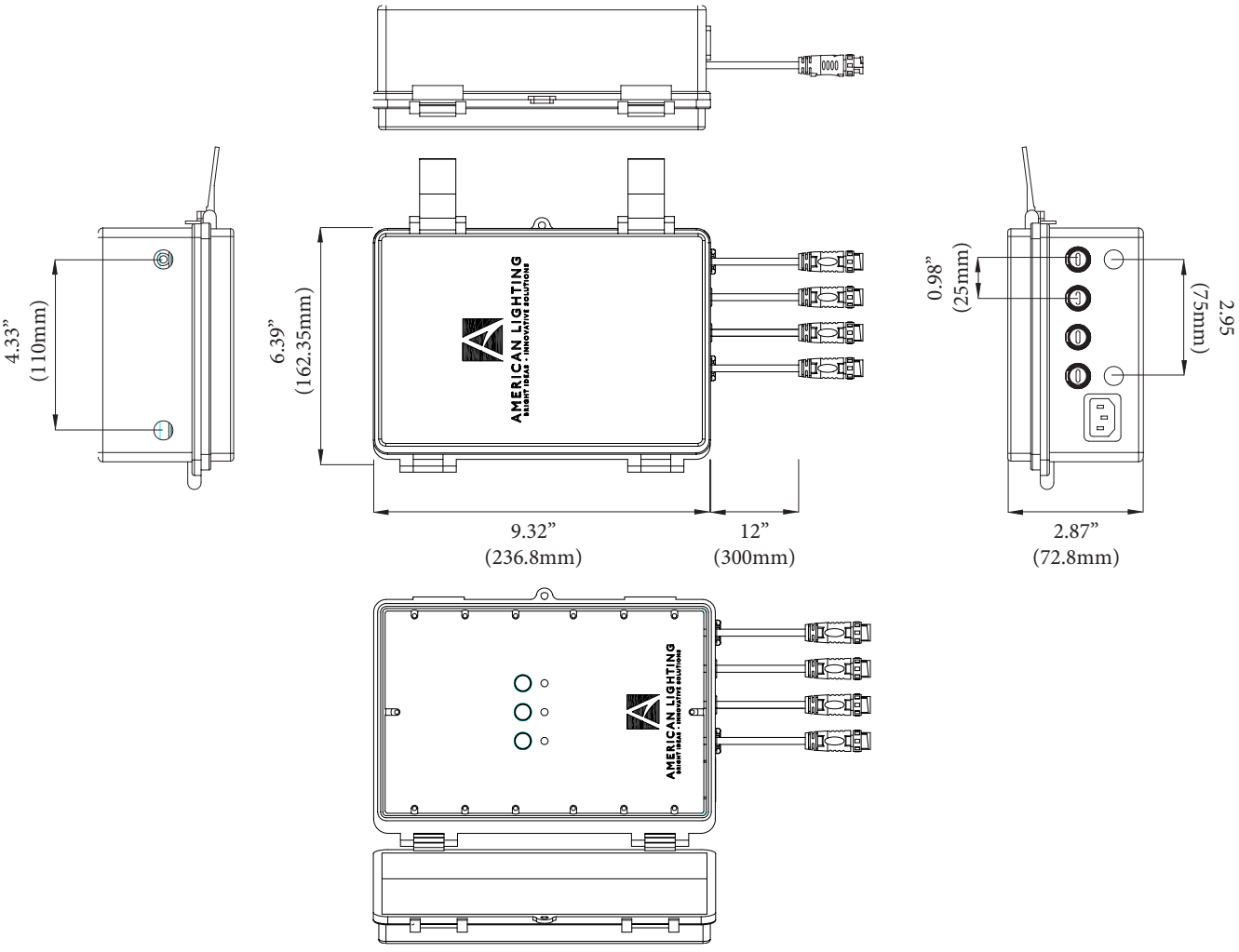
ENDPI

PSL

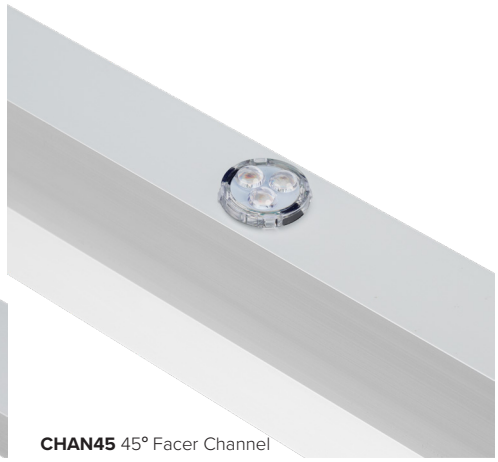
SPEKTRUM+ TWILIGHT TRIM DIMENSIONS



SPEKTRUM+ TWILIGHT TRIM CONTROLLER DIMENSIONS



CHANBASIC Facer Channel



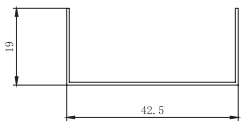
CHAN45 45° Facer Channel

Anodized aluminum channel is paintable in-field. Custom powder coating is available; reach out to your American Lighting representative for recommendations or quotations on powder coating.

SPEKTRUM+ TWILIGHT TRIM CHANNEL DIMENSIONS

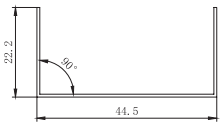
CHANBACKER
0.7mm Thickness

Use as a mounting base for CHANBASIC or CHANCHASE



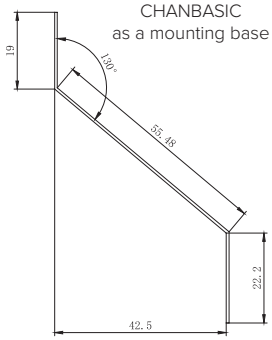
CHANBASIC & CHANCHASE
0.7mm Thickness

Use with CHANBACKER or CHANCLIP
BASIC = dot channel
CHASE = cable raceway



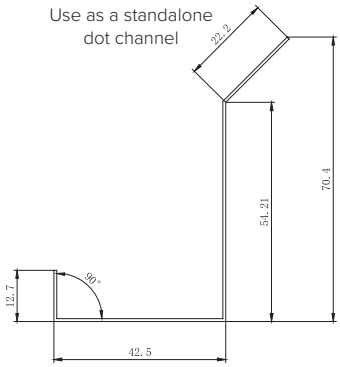
CHANZFLASH
0.7mm Thickness

Use with CHANBASIC as a mounting base



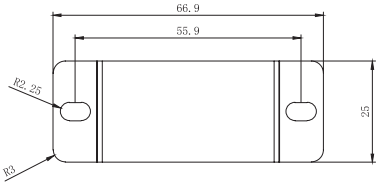
CHAN45
0.7mm Thickness

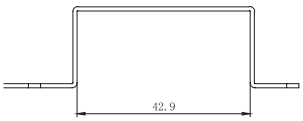
Use as a standalone dot channel

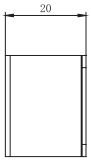


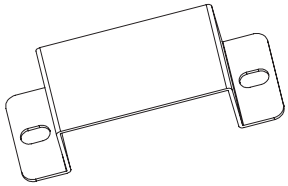
CHANCLIP

Use as a support clip for CHANBASIC or CHANCHASE

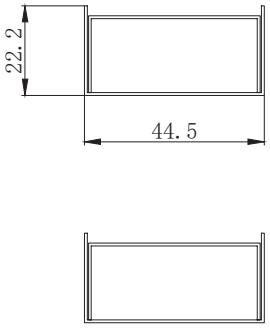




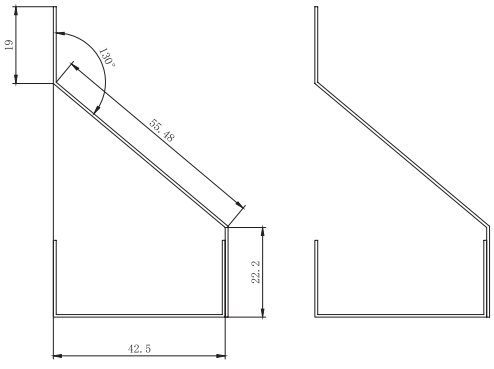




CHANBASIC + CHANBACKER



CHANBASIC + CHANZFLASH



CHANBASIC + CHANCLIP
CHANCHASE + CHANCLIP

Sales@AmericanLighting.com | Denver, CO | 800.880.1180

SPEKTRUM+ NOTES

CONTROLLING THE FIXTURE: The Twilight Trim controller utilizes WiFi Wireless Technology (Requires 2.4Ghz Wifi) and can be controlled via the Spektrum+ Smart Lighting App. It is not intended to be used with a standard dimmer switch.
Alternatively, their is an optional SPI controller available.

DISTANCE OF CONTROL CAPABILITY: Dependent on Wifi router bandwith. Control Box must be within range of router signal.

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 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	128
DEVICES LINKED TO A SINGLE REMOTE	40
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

AMERICAN LIGHTING WARRANTY

LIMITED WARRANTY FOR LED PRODUCTS: 5 YEARS

AVERAGE LIFE

Average incandescent lamp life, rated life and average life are terms used to describe the number of hours at which half of the lamps have failed. For LEDs, the hours of rated life specify the point at which 70% of original lumen output is reached. Below this point, the effective life is over, however, the LED may still emit light. Individual results may vary with actual environmental conditions including, but not limited to, proper installation, ambient temperature and/or input voltage fluctuations.

Warranty life based on average 8 hours/day use, 7 days/week. Product should be cycled off for at least 6 hours per day.

SAFETY

You must disconnect lighting products from the power supply before servicing or replacing bulbs. Only qualified personnel should install and perform service on lighting products. Periodic inspection and maintenance is required to keep equipment operating properly and at peak performance. Do not mount fixtures on or adjacent to combustible materials.

Lighting products may present a possible shock or fire hazard if improperly installed or attached in any way. Products should always be installed in accordance with their instruction manuals, current electrical codes, and/or the current National Electric Code (NEC). Code compliance is the sole responsibility of the person, company, or party performing the installation of product. Failure to comply with national and/or regional safety codes may result in hazardous or dangerous conditions, damage to property or life, and/or altered product performance/specifications.

LIMITED PRODUCT WARRANTY

Our products are warranted to be free from defects in material and workmanship for the warranty period listed on the reverse by product category. Warranty periods begin from the date of shipment from American Lighting Inc's warehouse to the original purchaser. Products that prove to be defective during their specific warranty period will be either repaired or replaced, at the sole discretion of American Lighting Inc. Claims for defective products must be submitted in writing to American Lighting Inc's RGA Department within the warranty period. Upon approval of such return, American Lighting Inc reserves the right to inspect the product for misuse or abuse. Claims for indirect or consequential damages or for any product that, in American Lighting Inc's opinion, has been misused will be denied. This is a warranty of product reliability only and not a warranty of merchantability or fitness for a particular purpose. American Lighting Inc shall have no liability whatsoever in any event for payment of incidental or consequential damages, including, without limitations, installation costs and/or damages for personal injury and/or property. These products may represent a possible shock or fire hazard if improperly installed or altered in any way. This warranty does not apply to any product that has not been properly installed in accordance with current local codes and/or the National Electrical Code. Products that require a transformer, driver or power supply must be used in conjunction with American Lighting Inc's recommended power supply to ensure safety and retain product warranty. Limited Product Warranty applies to lengths up to 75 feet for rope light products.

STANDARD LINEAR WARRANTY

Rope light and linear lighting products in all their various types and shapes, whether LED or incandescent, are wired in series parallel. This means that several individual lamps or LEDs are wired together in series to equal 12V, 24V or 120V. Then these sections are wired together (in parallel) to light up in unison. If one solder joint, lamp or resistor fails, a whole section will not light. Due to the number of elements involved, and the numerous extenuating circumstances beyond our control, American Lighting Inc offers a Standard Linear Warranty on most linear lighting products. The limited liability warranty is listed above, however the Standard Linear Warranty offers replacement product by section due to defective material and/or workmanship for one year beginning from the date of shipment from American Lighting Inc's warehouse to the original purchaser.

USE OF LINEAR LIGHTING IN OUTDOOR APPLICATIONS

Incandescent rope light and LED Flexbrite UL 2388 custom cuts; incandescent and LED Flexbrite pre-packaged kits; and UL Listed (special order) cuts of LED Neon Flexbrite Plus and Economy have factory assembled power connections and end caps that seal the rope from moisture. Due to strict quality control standards, American Lighting is able to offer a limited warranty on these items rather than the standard linear lighting warranty that replaces product by defective section only. For outdoor applications, best practices include using kits interconnected (same length kits are best for color control of White LED Flexbrite) or using custom cuts that do not exceed 75 feet.

For all linear lighting categories, any non-rated field connection made in an outdoor application should be properly sealed with dielectric grease covering all conductive materials; and properly installed power connections and end caps, sealed with dialectric grease, silicone, and heat shrink tube. However, since non-rated (field executed) power connections of linear lighting products cannot be quality controlled, and outdoor use of non-rated product is not recommended, American Lighting cannot warrant the product to any purchaser.

PRODUCT SPECIFICATIONS

For the latest product information, updates, instructions and details concerning specifications, colors, finishes, performance, installation and design, visit www.americanlighting.com. Color may vary from the color printed herein due to limitations in photographic and printing processes. American Lighting Inc. reserves the right to change product specifications without notice. Other product specifications such as color temperature, wavelength characteristics and lumen output are subject to production limitations and may vary.

LED technology is changing rapidly, and not all color temperatures and performance levels can be duplicated at a later time.

Best practices include purchasing 10-15% additional product for a project on the same initial order where white LED color temperatures must be maintained over project and product life. Eventual product replacement should be considered at layout and design stages. Best practices also include testing connections and product performance prior to mounting and/or installing.

