LTR-S-COB LED Specification Series

RGB+ Tunable White LED Tape
24VDC Dry Location Specification Sheet

GMLighting®

Project Name	Type
Catalog #	Date

RGBTW · 24 VOLT · DRY LOCATION · CLASS 2 · FIELD CUTTABLE · cULus · 5 Yr. WARRANTY

PRODUCT OVERVIEW

GM's RGB + Tunable White COB tape adds a new dimension beyond simple RGB. With the addition of 2700K and 6500K White LEDs, an amazing combination of color and general lighting is enabled. Cool white light can be used for critical tasks while warm whites create a cozy environment. RGB colors create a wide array of accent options for your desired look. Compact, COB style tape means reduced pixelization for smoother looking light. Designed for high quality illumination in dynamic applications.



FEATURES

- Red, Green, Blue (RGB) channels for rich color applications
- Tunable White LEDs for general and task lighting (2700K-6500K)
- 169 LEDs (single color), 845 LEDs (all LEDs) per meter
- Cuttable Increment: 1-5/8"
- 90° L-sections make flat corner applications easy
- Custom lengths available - consult factory
- 150° viewing angle
- 3M adhesive back
- Compatible with 5-channel DMX or RF control

SPECIFICATIONS

ELECTRICAL
- 24VDC
- 5W per foot (all channels)
- Max run is 16'4" (5m)
- 5 LED channel, 6 wire LED tape

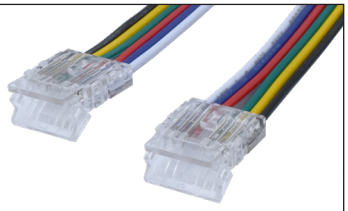
OPERATING TEMP
- -4°F to 104°F (-20°C to 40°C)

CERTIFICATION
- UL listed for US and Canada
- Class 2
- For use in dry and damp locations

WARRANTY
- 5 years when paired with GM power supply



LOC6-TT-S (shown open)



LOC6-TT-3/6/12/24/36/60 (shown open)



LOC6-TP-72 (shown open)



LTR-S-COB-24V-5W-RGBTW-LL (LEFT)
LTR-S-COB-24V-5W-RGBTW-LR (RIGHT)

ORDERING INFORMATION

Example: **LTR-S-COB-24V-5W-RGBTW-16**

	-		-		-		-		-	
Model	-	**Series**	-	**Voltage**	-	**Wattage**	-	**Type**	-	**Reel Length /Direction**
LTR		**S-COB**		**24V**		**5W**		**RGBTW**		**16** (Linear tape 16')
										LL (L-section LEFT)
										LR (L-section RIGHT)

Catalog No.	Description
LOC6-TT-S	Low profile 6C tape-to-tape splice connector
LOC6-TT-3	Low profile 6C tape-to-tape 3" wire connector
LOC6-TT-12	Low profile 6C tape-to-tape 12" wire connector
LOC6-TT-36	Low profile 6C tape-to-tape 36" wire connector
18-6-WIRE-XXXFT	18/6 In-wall rated cable (CMP) by the foot

Catalog No.	Description
LOC6-TP-72	Low profile 6C tape-to-power 72" wire connector
LOC6-TT-6	Low profile 6C tape-to-tape 6" wire connector
LOC6-TT-24	Low profile 6C tape-to-tape 24" wire connector
LOC6-TT-60	Low profile 6C tape-to-tape 60" wire connector

16'-4" reel includes 60" lead affixed to tape.

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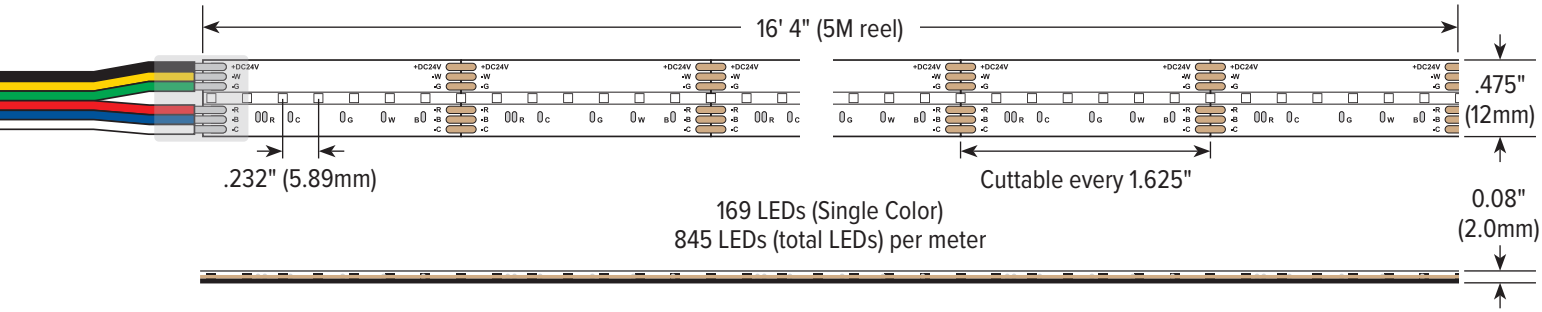
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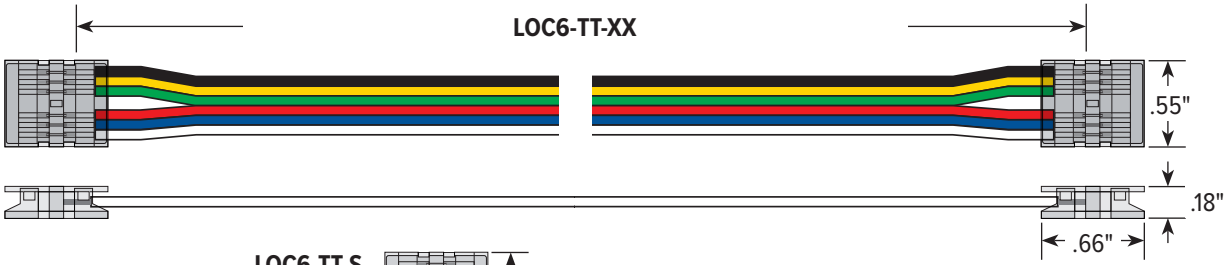
PHOTOMETRIC AND POWER DATA

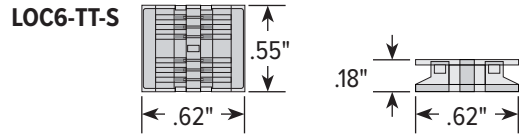
LED Channel	Voltage	Watts/ft	Lumens/ft	CCT	CRI	Wavelength
Warm White	24.0	0.97	85	2700K	91	-
Cool White	24.0	0.97	84	6500K	90	-
Red	24.0	1.56	-	-	-	628nm
Green	24.0	0.69	-	-	-	520nm
Blue	24.0	0.12	-	-	-	454nm

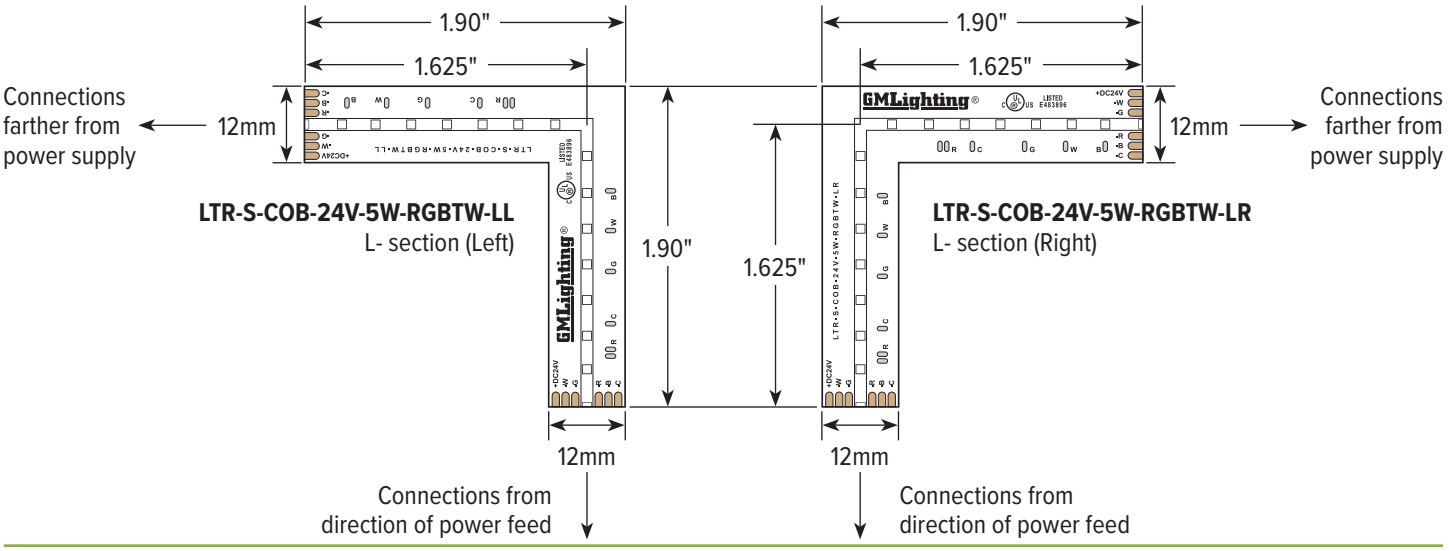
Total wattage for all channels on is 5W/ft max

DIAGRAMS









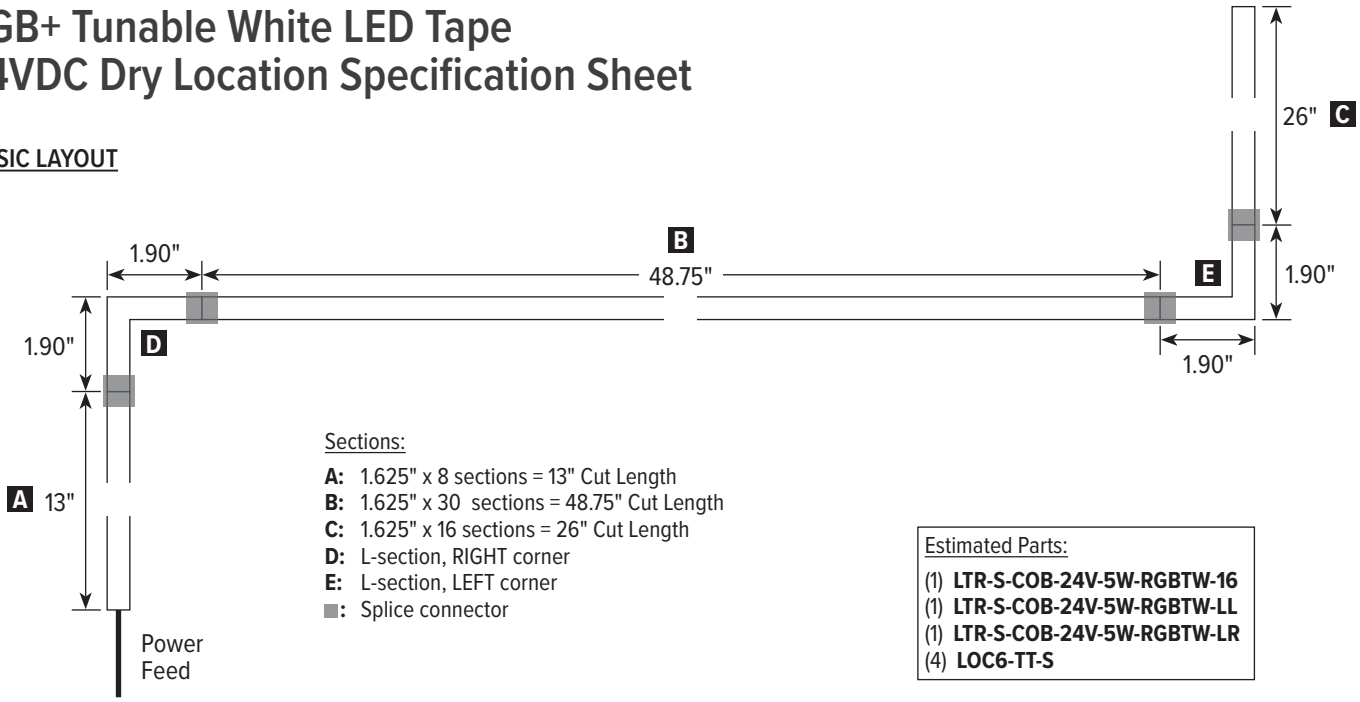
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BASIC LAYOUT



Sections:

A: 1.625" x 8 sections = 13" Cut Length
B: 1.625" x 30 sections = 48.75" Cut Length
C: 1.625" x 16 sections = 26" Cut Length
D: L-section, RIGHT corner
E: L-section, LEFT corner
■: Splice connector

Estimated Parts:

(1) **LTR-S-COB-24V-5W-RGBTW-16**
(1) **LTR-S-COB-24V-5W-RGBTW-LL**
(1) **LTR-S-COB-24V-5W-RGBTW-LR**
(4) **LOC6-TT-S**

COMPATIBLE CONTROLLERS

System	Catalog No.	Description
RF Control	**HC-RF-UNV-5CH**	Universal 1-5 Channel RF Remote Control
	CM-RF-UNV-5CH	Universal 1-5 Channel Control Module
	RPT-UNV-5CH	Universal 1-5 Channel Repeater Amplifier
DMX Control	**DMX-LT-995**	5-Channel DMX Decoder
	WC5-RGBTW-DMX-BT	Black Wall Control 5-Channel DMX, Bluetooth App
	LD-E-UNV8-12	12V 8W Constant Voltage Driver 120V/277VAC In
	DMX-TR-5	DMX Terminator Resistor 120 Ohm, 1/4 Watt, 5 pcs

RECOMMENDED DRIVERS

Catalog No.	Description	Watts	Specification Sheet
LD-XD-UNV	LineDrive Electronic Multi-Dimmable Power Supply, 12VDC or 24VDC	20W, 40W, 60W, 96W, 180W, 200W, 300W	View Spec Sheet
LD-MD-UNV	LineDrive Magnetic Dimmable Power Supply, 12VDC or 24VDC	30W, 60W, 96W, 150W, 200W, 300W	View Spec Sheet
PSD	Electronic Dimmable Power Supply, 12VDC or 24VDC	15W, 24W, 60W, 90W	View Spec Sheet
Please see our website for updated power supply specifications and information.			

Note: NOT for use with LD-EDM series power supplies

CORD AND PLUG DRIVERS

Model	Description	Watts	Weight	Dimensions
LTP24-48	24VDC - 48W - 2 amps - 120V - 120V cord (72") and plug Short circuit, overload protection - LED indicator for power on. UL listed	48W	1.8 lbs	4.68"L x 2.05"W x 1.25"H
LTP24-90	24VDC - 90W - 3.75 amps - 120V - 120V cord (72") and plug Short circuit, overload protection - LED indicator for power on. UL listed	90W	1.8 lbs	4.68"L x 2.05"W x 1.25"H
Please see our website for updated power supply specifications and information.				

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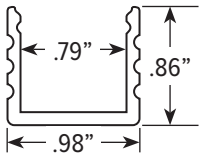
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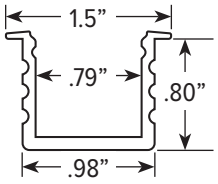
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COMPATIBLE CHANNELS

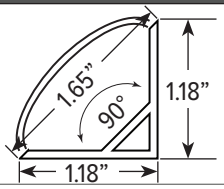
EXTRA DEEP

Catalog No.	Description	Length	Dimensions
LED-CHL-XD	Extra-deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-6	Extra-deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	6'	
LED-CHL-XD-AMC	(2) Adjustable mounting brackets for **LED-CHL-XD**	N/A	
LED-CHL-XD-EC	(2) End caps for **LED-CHL-XD**, one solid, one with hole	N/A	
LED-CHL-XD-MC	(2) Mounting clips and screws for **LED-CHL-XD**	N/A	

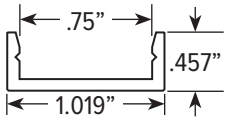
EXTRA DEEP FLANGED

Catalog No.	Description	Length	Dimensions
LED-CHL-XD-F	Extra-deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-F-6	Extra-deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	6'	
LED-CHL-XD-F-DC	(2) Drywall mounting brackets for **LED-CHL-XD-F**	N/A	
LED-CHL-XD-F-EC	(2) End caps for **LED-CHL-XD-F**, one solid, one with hole	N/A	

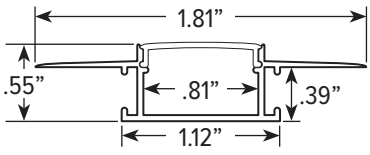
45° LARGE ANGLE MOUNT

Catalog No.	Description	Length	Dimensions
LED-CHL-45-1200	Extruded angled (45°) channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-45-1200-EC	(2) End caps for **LED-CHL-45**, one solid, one with hole.	N/A	
LED-CHL-45-1200-MC	(2) Additional mounting clips for **LED-CHL-45-1200**	N/A	

WIDE

Catalog No.	Description	Length	Dimensions
LED-CHL-W	Wide format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-W-6	Wide format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	6'	
LED-CHL-W-AMC	(2) Adjustable mounting brackets for **LED-CHL-W**	N/A	
LED-CHL-W-EC	(2) End caps for **LED-CHL-W** one solid, one with hole	N/A	
LED-CHL-W-MC	(2) Additional mounting clips for **LED-CHL-W**	N/A	

MUD-IN STANDARD

Catalog No.	Description	Length	Dimensions
LED-CHL-MI-ST6	Standard extruded aluminum mud-in channel. Includes snap-on frosted lens.	6'	
LED-CHL-MI-ST6-FC90	Mud-in 90° Flat Corner with 4 joiners, set screws and hex key	N/A	
LED-CHL-MI-ST6-IC90	Mud-in 90° Inside Corner with 4 joiners, set screws and hex key	N/A	
LED-CHL-MI-ST6-OC90	Mud-in 90° Outside Corner with 4 joiners, set screws and hex key	N/A	
LED-CHL-MI-ST-EC	(2) End caps for **LED-CHL-MI-ST6**, one solid, one with hole	N/A	
LED-CHL-MI-ST6-JC	Straight 2-piece joiner coupler, set screws and hex key	N/A	
LED-CHL-MI-ST6-LENS	PC diffuser lens, 8ft	6'	

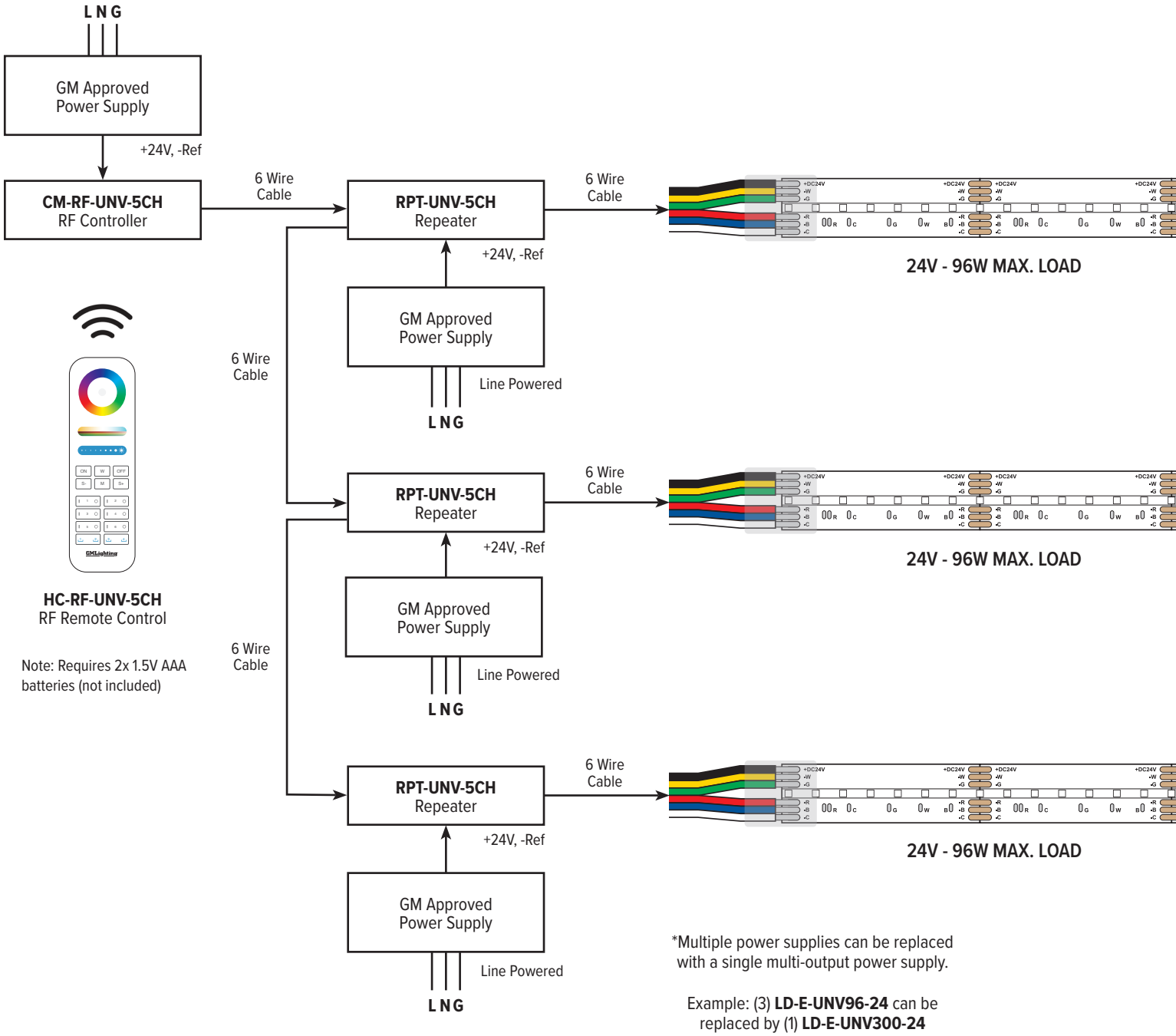
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UNIVERSAL RF CONTROLLER WIRING DIAGRAM

Incoming power for (L N G) options can be 120V or 277V.
Check power supply for proper input voltage and output power required.
Power Supply output voltage must match LED operating voltage. (24VDC)
Power supply used **MUST NOT BE DIMMED** at the input to properly power the controls.
See Controller instructions for pairing and wiring details.



HC-RF-UNV-5CH
RF Remote Control

Note: Requires 2x 1.5V AAA batteries (not included)

*Multiple power supplies can be replaced with a single multi-output power supply.

Example: (3) **LD-E-UNV96-24** can be replaced by (1) **LD-E-UNV300-24**

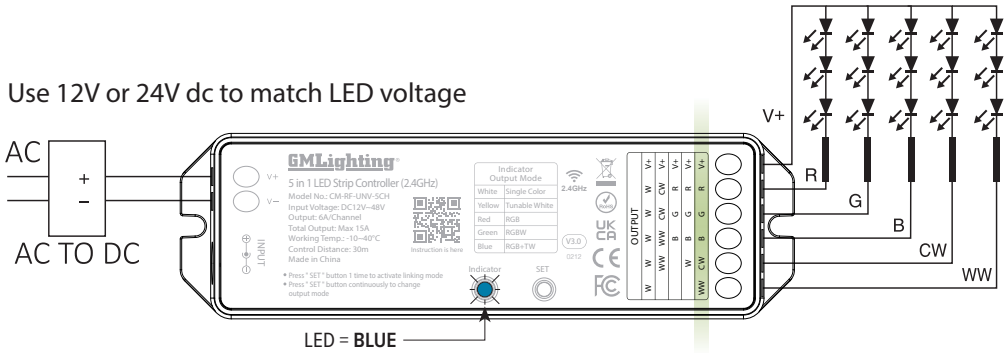
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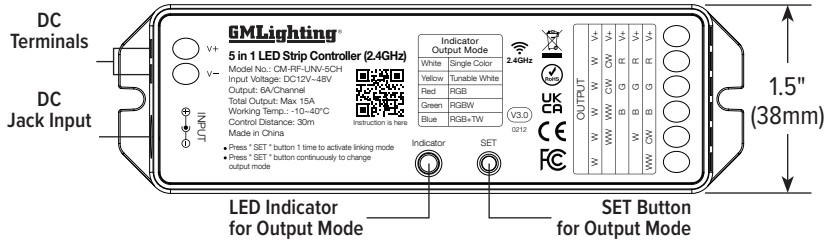
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RF REMOTE CONTROLLER AND REPEATER

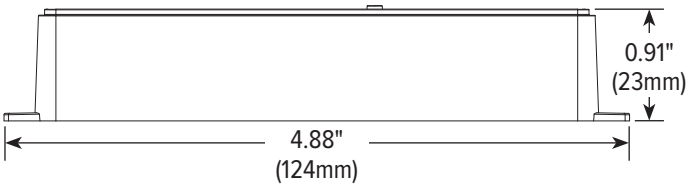


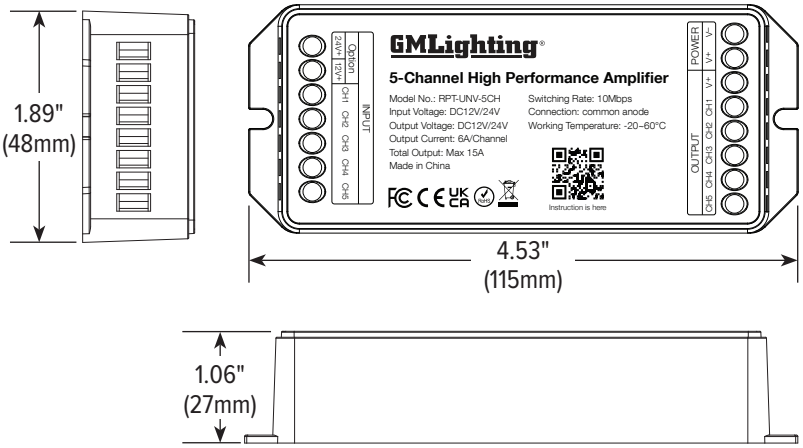
CM-RF-UNV-5CH
RF Controller

DIMENSIONS



CM-RF-UNV-5CH
RF Controller





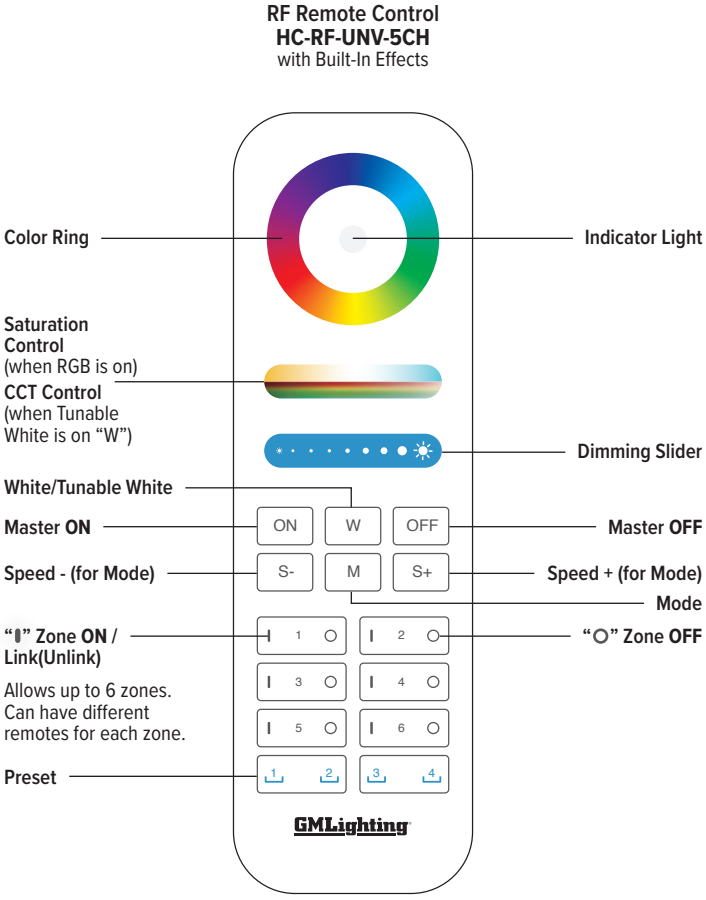
RPT-UNV-5CH
Repeater Amplifier

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RF HAND HELD REMOTE FEATURES AND DIMENSIONS





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See instructions for use and pairing information.

Wall Control
WC5-RGBTW-DMX-BT
16 Built-In Modes



1 - 4: ZONE Keys
Turn ON (short press)
Select/Deselect Zone (short press)
Turn OFF (long press)

Play Mode (short press)
Adjust Speed (long press)

WY ON/OFF (Cool/Warm for Tunable White Turn ON/OFF (short press)
Adjust Tunable White Brightness (long press)

RGB ON/OFF (short press)
Adjust RGB Brightness (long press)

All ON/OFF (short press)
16 Modes (press to switch)
See chart below for modes

Touch Color Circle (RGB)

Touch Slider Bar
Controls Saturation
(When RGB and W/Y Color Tuning are ON)
Controls CCT
(When W/Y Cool/Warm Tuning is ON only)

A - D: SCENE Keys
Change Scene (short press)
Refer to instructions for details

16 PRESET MODES (Adjustable Brightness / Saturation / Speed)

No.	Mode
1	3 Color Jumping
2	7 Color Jumping
3	White Strobe
4	7 Color Strobe
5	Red / Green Gradient
6	Red / Blue Gradient
7	Green / Blue Gradient
8	Red / Yellow Gradient

No.	Mode
9	Blue / Purple Gradient
10	Green / Yellow Gradient
11	Blue / Cyan Gradient
12	Red / Purple Gradient
13	Blue / White Gradient
14	Yellow / Purple / Cyan Gradient
15	3 Color Gradient
16	Full Color Gradient

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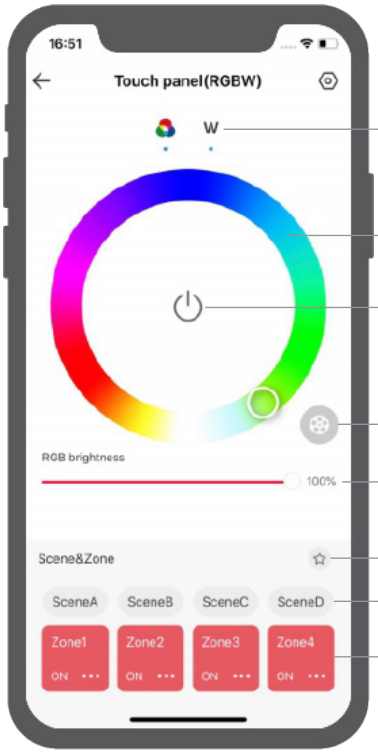
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RGBTW DMX WALL CONTROL AND BLUETOOTH® APP

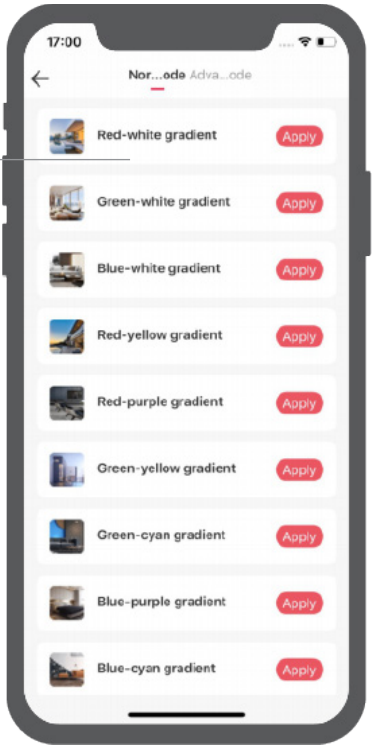
This device communicates by Bluetooth®. Wi-Fi not required for the App. Device that App is connected to will need Wi-Fi capability to download and set up the App.
Note that Wi-Fi is NOT used to control the device

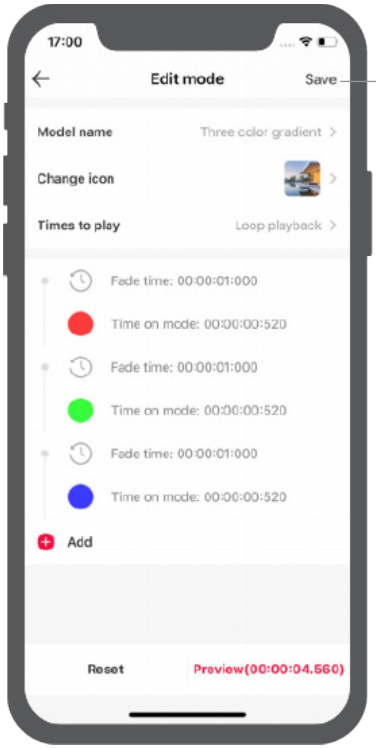
App Operation:

1. Scan the QR code in the instructions to download the App for Apple iOS or Android OS
2. Pair your device to the Wall Control
3. Use manual settings to check operation and use simple white, color and dimming functions
4. Select preset Modes to for advanced lighting options
5. Create Zones or custom Scenes by editing features
6. Share control with other devices



Click the mode to select more details





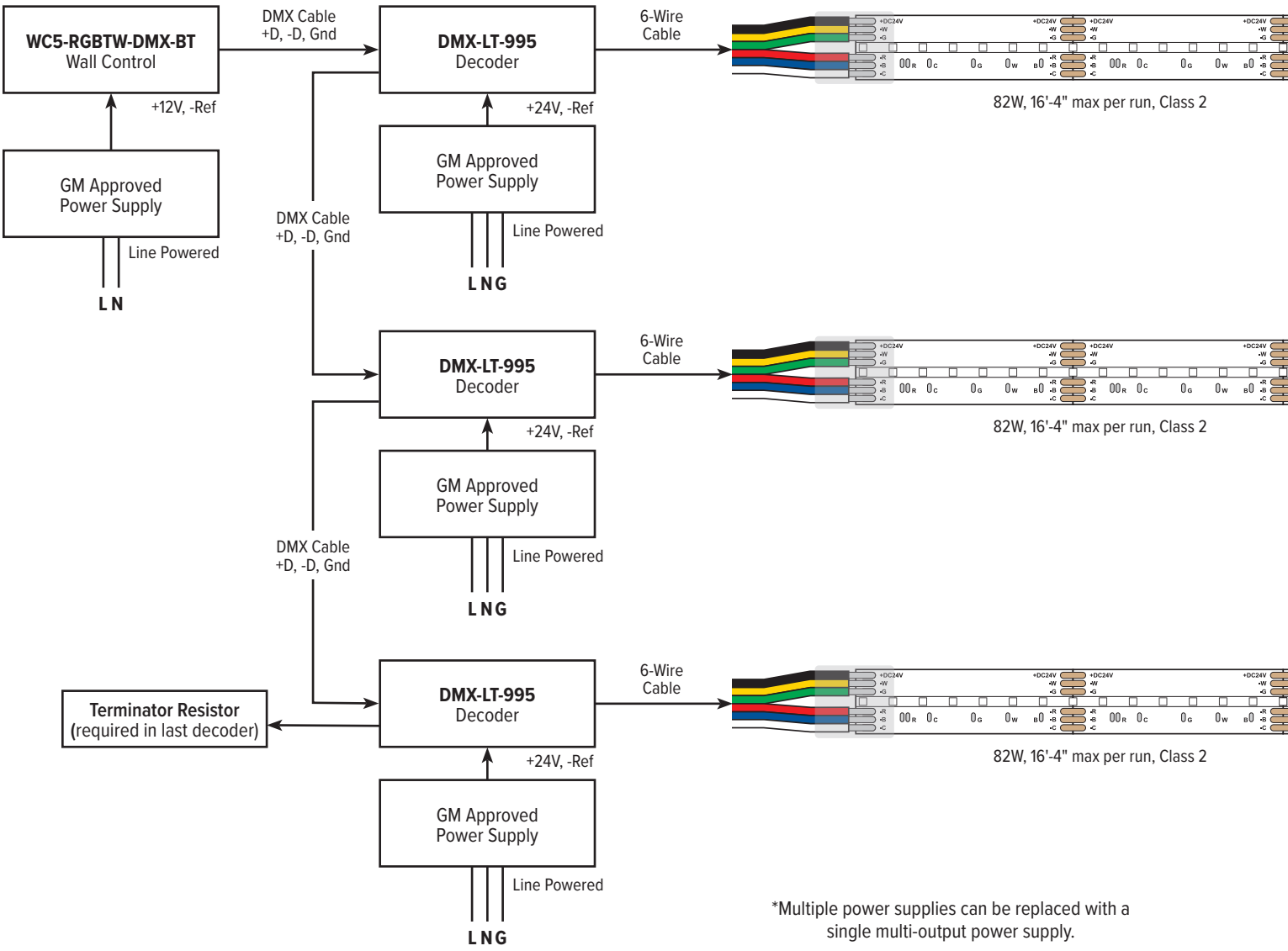
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RGBTW DMX WALL CONTROL AND BLUETOOTH APP

Three decoder example shown as simple example.
Consult DMX Planning Guide for specific application details and requirements of different size systems.
See separate data sheets and instructions for more details on DMX Wall Controls and Decoders.

Incoming power for (L N G) can be 120V or 277V.



*Multiple power supplies can be replaced with a single multi-output power supply.

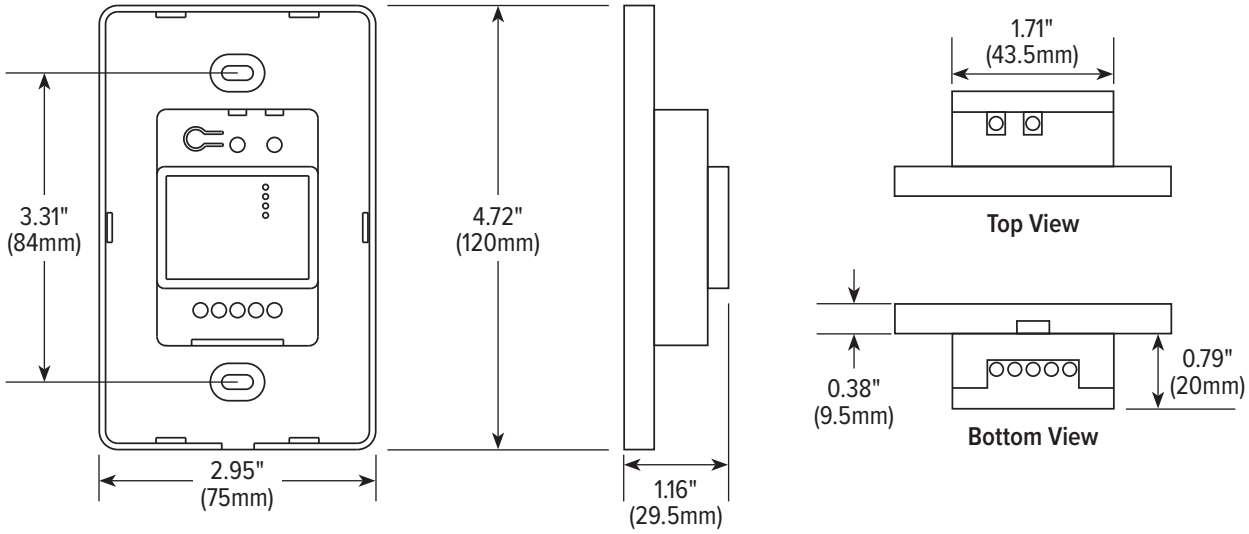
Example: (3) **LD-XD-UNV96-24** can be replaced by (1) **LD-XD-UNV300-24**

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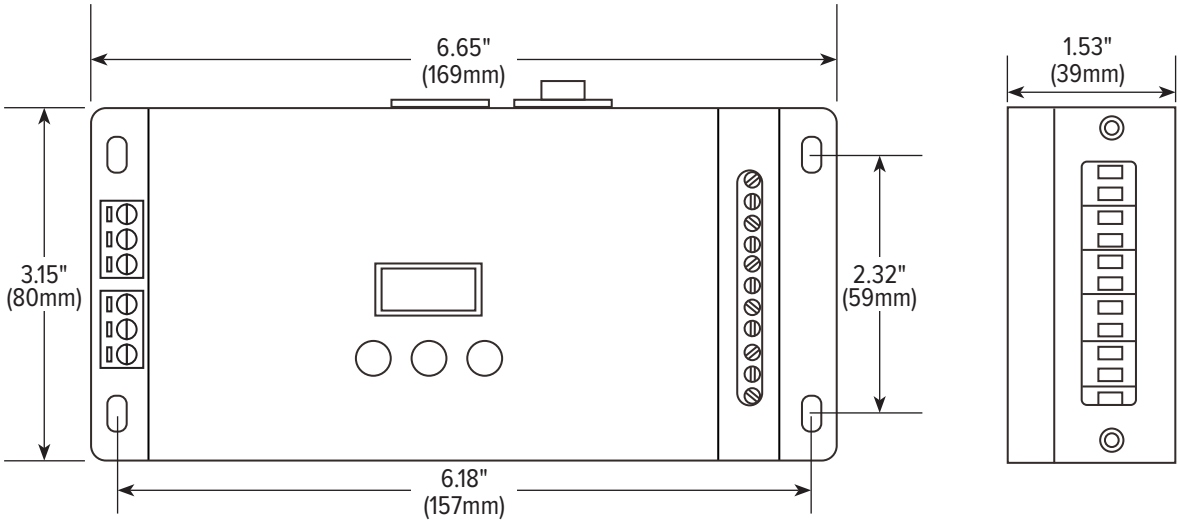
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Wall Control
WC5-RGBTW-DMX-BT



DMX Decoder
DMX-LT-995



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