NeoVision24 TopFlex

Flexible Neon LED Tape
Specification Sheet

GMLighting ®

Project Name	Type
Catalog #	Date

LUXcontrol | **DIMMABLE** | **FIELD CUTTABLE** | **IP65** | **24 VOLT** | **90+ CRI** | **WET LOCATION** | **cULus** | **5 Yr. WARRANTY**

PRODUCT OVERVIEW

A 24VDC high transmission, flexible linear 'neon' tape that is field cuttable and joinable. Designed for applications that require ultra-rich light and color saturation that is characteristic of neon. TopFlex enables vertical bending that conforms tape around curvilinear surfaces.

FEATURES

• Multiple power feed options
• Tape encased in UV stable silicone (UV protected)
• Wireless control with LUXcontrol App and controller
• 2700K, 3000K, 4000K / Amber, Blue, Green or Red
• 120° viewing angle
• Maximum run: 32'-8"
• Cuttable and joinable in two inch increments
• Each run requires an end cap (sold separately)
• No tools required for capping and joining
• Mounting clips included (recommend use one per foot)

SPECIFICATIONS

ELECTRICAL
• 24VDC
• 3W per foot

PHOTOMETRIC
• 90+ CRI

AMBIENT OPERATING TEMP
• -13°F - 131°F

CERTIFICATION
• UL
• IP65

WARRANTY
• 5 years when paired with GM power supply

Amber | Blue | Green | 3000K | Red

ORDERING INFORMATION

White

Product No.	Length	Lumens/ft	Color Temp
NV24T-3W-27K-16	16'-4"	218lm	2700K
NV24T-3W-27K-32	32'-8"	218lm	2700K
NV24T-3W-30K-16	16'-4"	230lm	3000K
NV24T-3W-30K-32	32'-8"	230lm	3000K
NV24T-3W-40K-16	16'-4"	217lm	4000K
NV24T-3W-40K-32	32'-8"	217lm	4000K

Colors

Product No.	Length	Lumens/ft	Color Temp
NV24T-3W-AM-16	16'-4"	N/A	Amber
NV24T-3W-AM-32	32'-8"	N/A	Amber
NV24T-3W-BL-16	16'-4"	N/A	Blue
NV24T-3W-BL-32	32'-8"	N/A	Blue
NV24T-3W-GR-16	16'-4"	N/A	Green
NV24T-3W-GR-32	32'-8"	N/A	Green
NV24T-3W-RD-16	16'-4"	N/A	Red
NV24T-3W-RD-32	32'-8"	N/A	Red

Max Run: 32'-8"
Kelvin temperature (color) ±100K.
NOTE: Every reel includes (1) **NV24T-PF-EF** (tape-to-power feed with 48" of lead). 16' reel includes (16) **NV24T-MC-A** mounting clips and screws. 32' reel comes with (32) **NV24T-MC-A** mounting clips and screws.

.47"
.51"
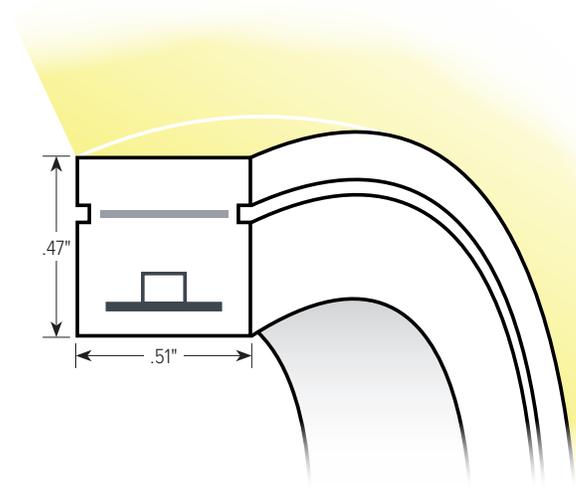
TopFlex Cutaway
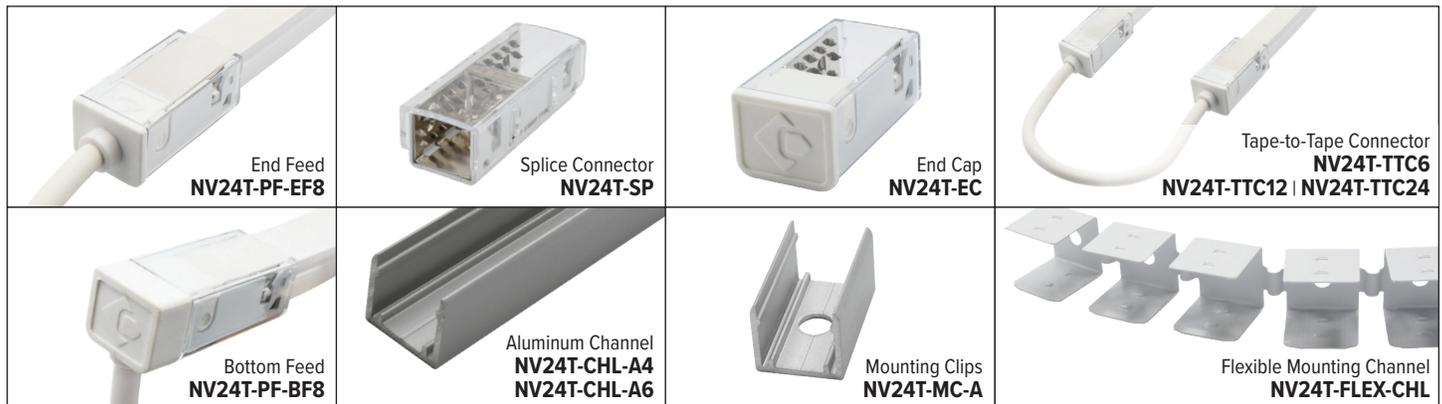
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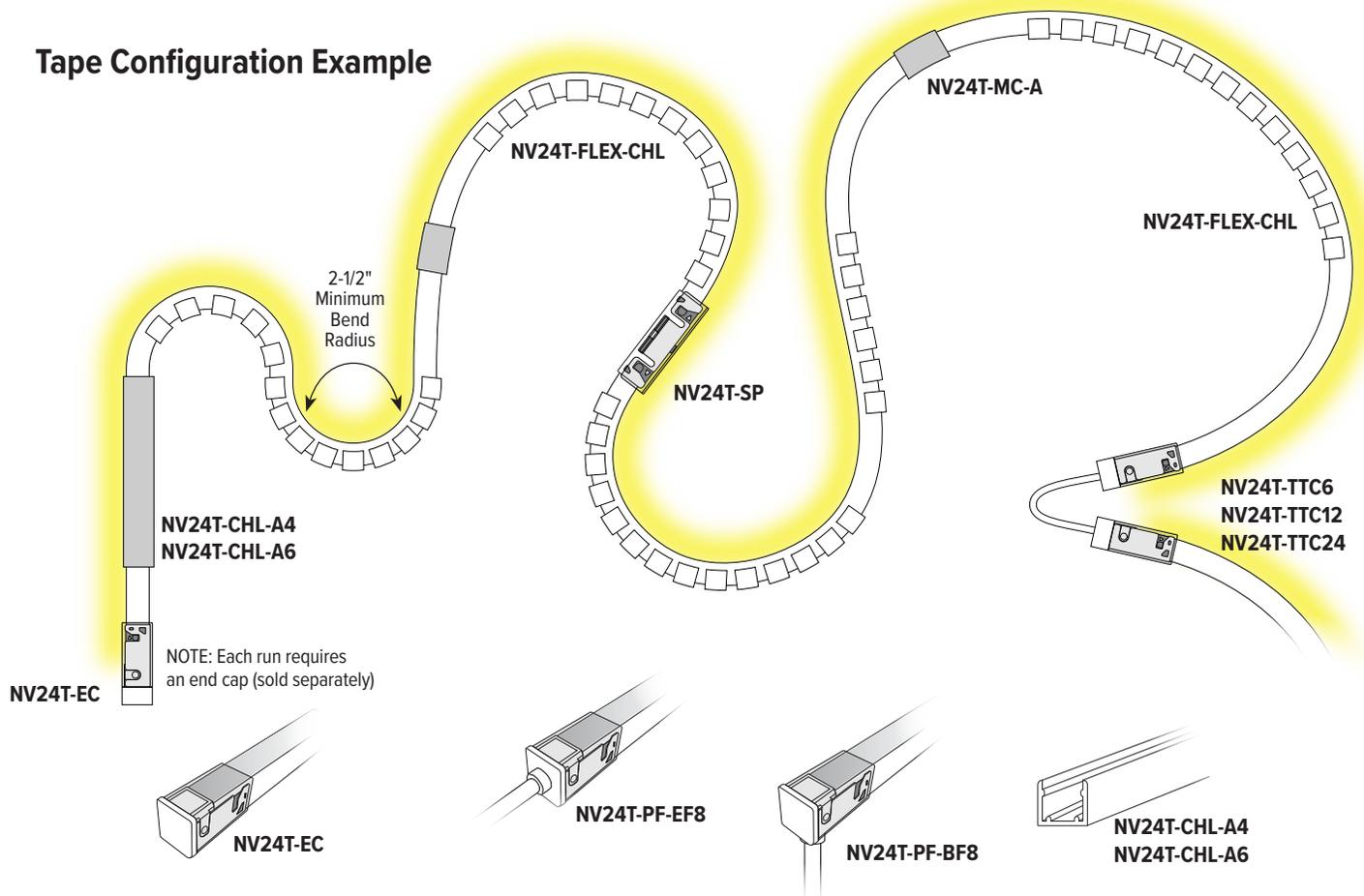### CONNECTORS AND ACCESSORIES

Product No.	Description
NV24T-PF-EF8	Tape-to-Power Flexible End Feed, 8 ft.
NV24T-PF-BF8	Tape-to-Power Flexible Bottom Feed, 8 ft.
NV24T-SP	Tape-to-Tape Splice Connector
NV24T-CHL-A4	Aluminum Channel, 4 ft.
NV24T-CHL-A6	Aluminum Channel, 6 ft.
NV24T-MC-A	Aluminum Mounting Clips (set of 20)

Product No.	Description
NV24T-TTC6	Tape-to-Tape Flexible Connector, 6"
NV24T-TTC12	Tape-to-Tape Flexible Connector, 12"
NV24T-TTC24	Tape-to-Tape Flexible Connector, 24"
NV24T-FLEX-CHL	Flexible Mounting Channel, 39.5"
NV24T-EC	End Cap
NV24-CT	Tape Cutting Tool

The above connectors, channels, mounting clips and caps are for the exclusive use of **NeoVision24 TopFlex Neon Tape** and are ordered separately.

End Feed
NV24T-PF-EF8

Splice Connector
NV24T-SP

End Cap
NV24T-EC

Tape-to-Tape Connector
NV24T-TTC6
NV24T-TTC12 | NV24T-TTC24

Bottom Feed
NV24T-PF-BF8

Aluminum Channel
NV24T-CHL-A4
NV24T-CHL-A6

Mounting Clips
NV24T-MC-A

Flexible Mounting Channel
NV24T-FLEX-CHL

Tape Configuration Example

NV24T-MC-A

NV24T-FLEX-CHL

NV24T-FLEX-CHL

2-1/2" Minimum Bend Radius

NV24T-SP

NV24T-CHL-A4
NV24T-CHL-A6

NV24T-TTC6
NV24T-TTC12
NV24T-TTC24

NV24T-EC

NOTE: Each run requires an end cap (sold separately)

NV24T-EC

NV24T-PF-EF8

NV24T-PF-BF8

NV24T-CHL-A4
NV24T-CHL-A6

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DIMENSIONS

NV24T-PF-EF8

.630"
1.500"
.735"

NV24T-PF-BF8

.630"
1.500"
.760"

NV24T-SP

.630"
1.812"
.735"

NV24T-EC

.630"
1.500"
.760"
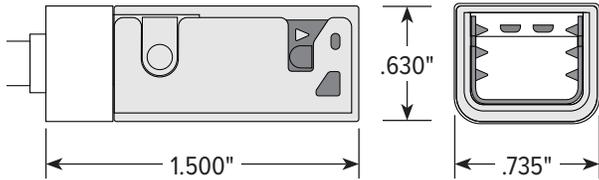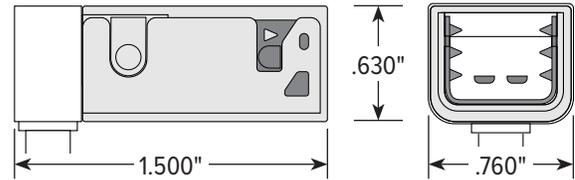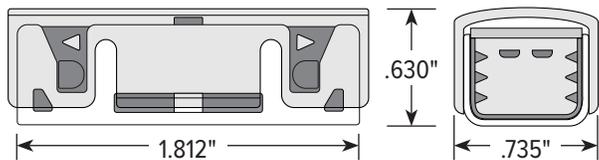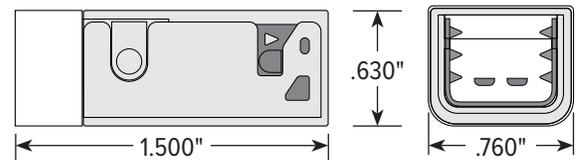
NV24T-CHL-A4 (4' L)
NV24T-CHL-A6 (6' L)

.560"
.610"

NV24T-MC-A

.560"
.610"
1"

NV24T-FLEX-CHL

.545"
.544"
39"
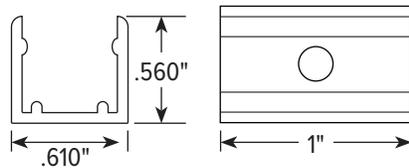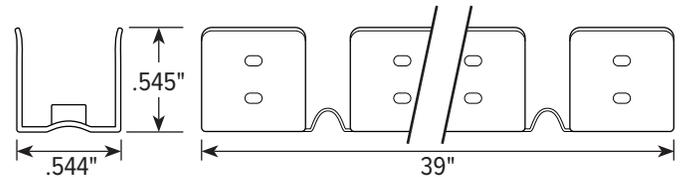
NV24S-TTC6 | NV24S-TTC12 | NV24S-TTC24
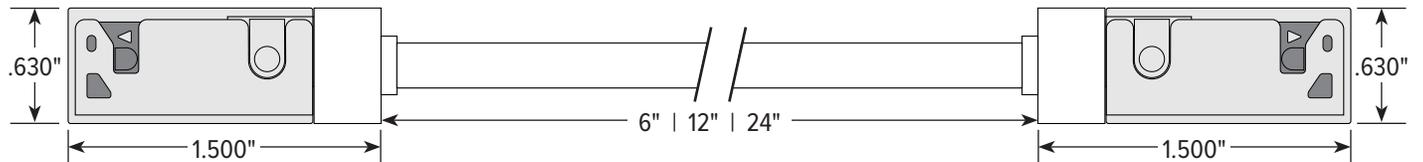
.630"
1.500"
6" | 12" | 24"
.630"
1.500"

TopFlex Tape

+ +
DC24V
Cuttable every 2"

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NeoVision24 TopFlex

Flexible Neon LED Tape
Specification Sheet

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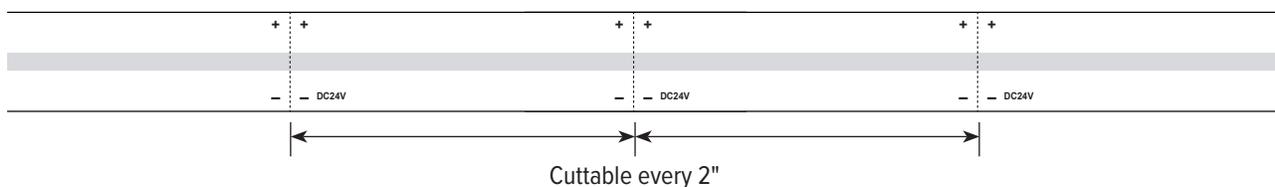
WIRING DIAGRAM

Single Color Smart Controller

SHWC

OFF
ON

DC Power Supply
12-24VDC
+
−

For 12VDC input, Max current:5A, Max load power: 60W
For 24VDC input, Max current:5A, Max load power: 96W
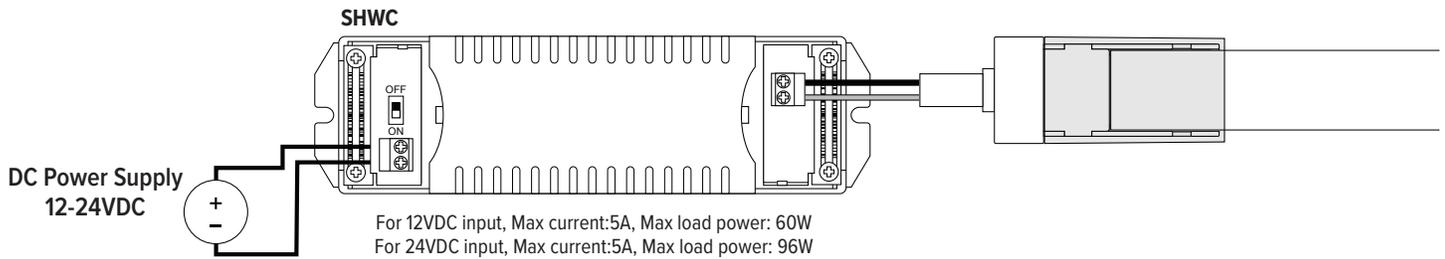
Repeater Wiring
Single color connection - One channel

SHWC-RGBW-RPT

Input signal from
Controller
+
−

−
+
DC Power Supply
12-24VDC

LineDRIVE™ Power Supply

LD-E-UNV60-12
LED Dimmable Driver
(Constant Voltage)

GMLighting®

LineDRIVE
POWER SUPPLIES

LUXcontrol™ Controller

GMLighting®
SHWC
12/24V Low Voltage
Smart Home WiFi Controller

OFF
ON

DC+
DC−

LUX
control

+
−

Remote WiFi Control

LUX
command

GMLighting®

LUXcontrol™ App

Router Signal

Expandable with universal power repeater
SHWC-RGBW-RPT for larger projects

CONTROLLERS

Product No.	Description
SHWC*	Smart 2.4 GHz WiFi Controller, Standard 12V/24V Low Voltage, 1-Channel / 2-Wire
SHWC-RGBW-RPT*	Universal Smart Power Repeater

*NOTE: For use with **LD-E** (non-dimmable) or **LD-XD** (dimmable) power supply only.
Not compatible with **LD-MD** (magnetic) power supply.

POWER SUPPLIES

Product No.	Description
LD-XD Series	LineDRIVE 24V Dimmable Power Supplies
LD-MD Series	LineDRIVE 24V Magnetic Power Supplies
PSD Series	Constant Voltage 24V Dimmable Power Supplies

SHWC LUXCONTROL WIFI CONTROLLER

LNG

Line Powered

LineDrive LD-E Series Non-Dimmable Power Supply

SHWC Controller

GROUP MULTIPLE CONTROLLERS IN THE LUXCONTROL APP
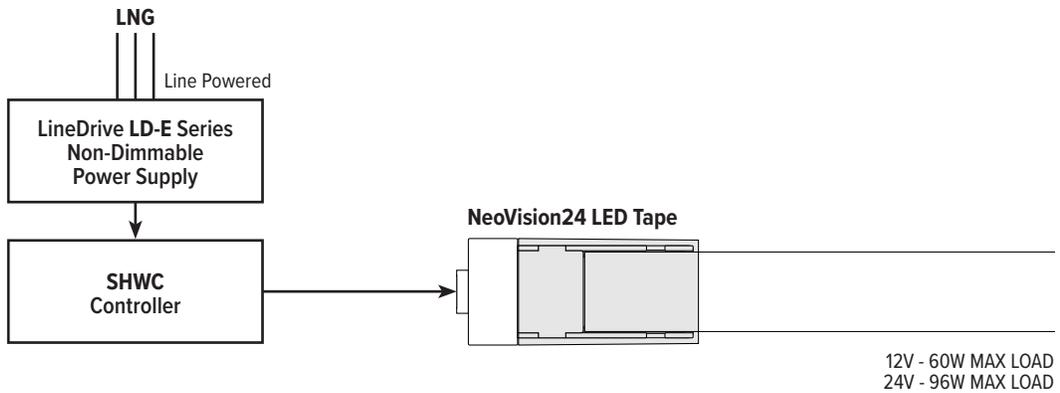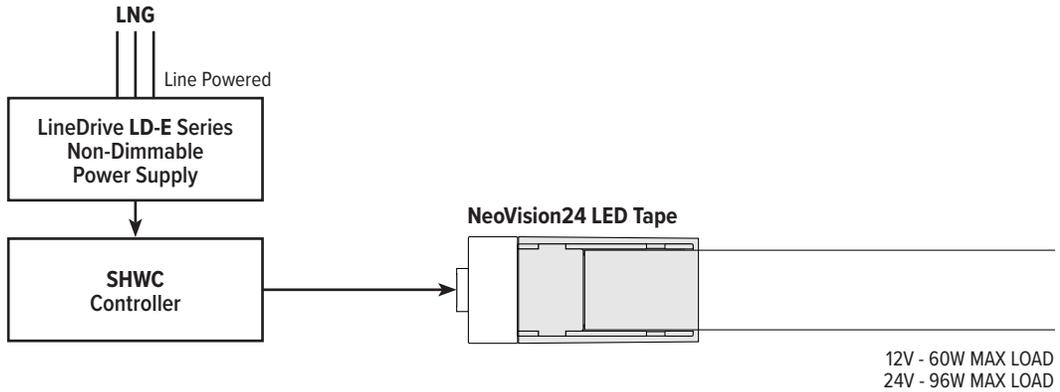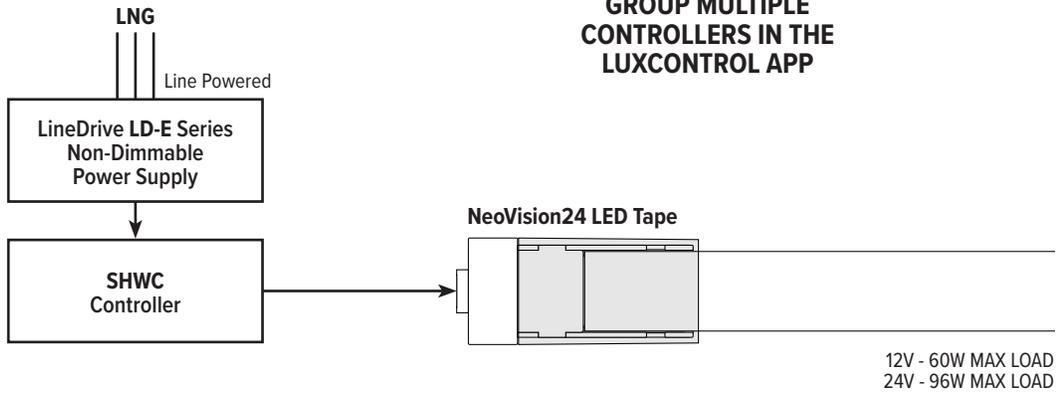
NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

LNG

Line Powered

LineDrive LD-E Series Non-Dimmable Power Supply

SHWC Controller

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

LNG

Line Powered

LineDrive LD-E Series Non-Dimmable Power Supply

SHWC Controller

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

NeoVision24 TopFlex

Flexible Neon LED Tape
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SHWC LUXCONTROL WIFI CONTROLLER
WITH POWER REPEATER

LNG

Line Powered

LineDrive **LD-E Series**
Non-Dimmable
Power Supply

SHWC
Controller

LNG

Line Powered

LineDrive **LD-E Series**
Non-Dimmable
Power Supply

SHWC-RGBW-RPT
Repeater

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

LNG

Line Powered

LineDrive **LD-E Series**
Non-Dimmable
Power Supply

SHWC-RGBW-RPT
Repeater

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

LNG

Line Powered

LineDrive **LD-E Series**
Non-Dimmable
Power Supply

SHWC-RGBW-RPT
Repeater

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

TO ADDITIONAL
REPEATERS AND
POWER SUPPLIES

NeoVision24 TopFlex

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Flexible Neon LED Tape
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<u>SHWD LUXCONTROL WIFI CONTROLLER</u>

LNG

Line Powered

150W MAX LOAD

SHWD
WiFi Dimmer

LineDrive **LD-XD Series**
Dimmable
Power Supply

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD
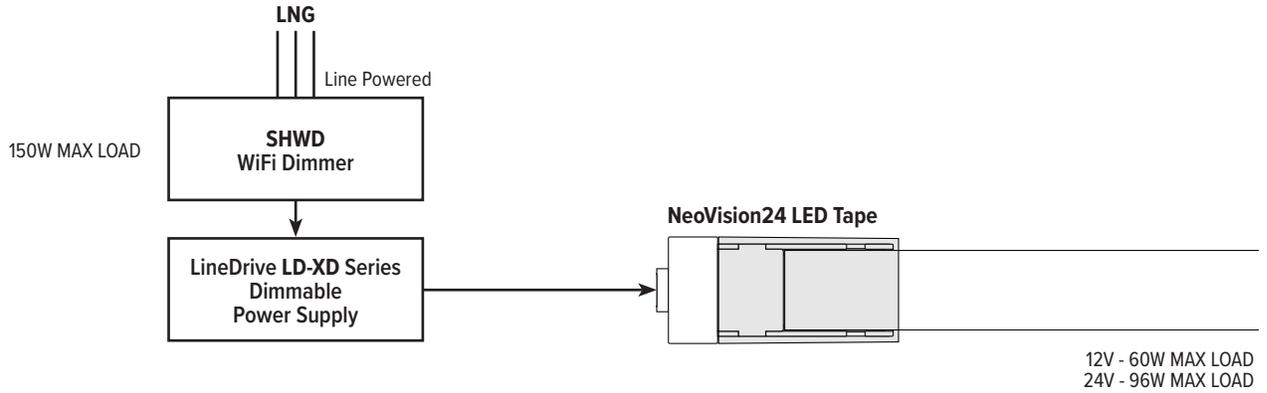
<u>SHWD SWD DRIVER AND DIMMER</u>

SWITCHLD - SWD
12VDC or 24VDC

12V - 48W MAX LOAD
24V - 80W MAX LOAD

L
N
G

NeoVision24 LED Tape

NeoVision24 LED Tape

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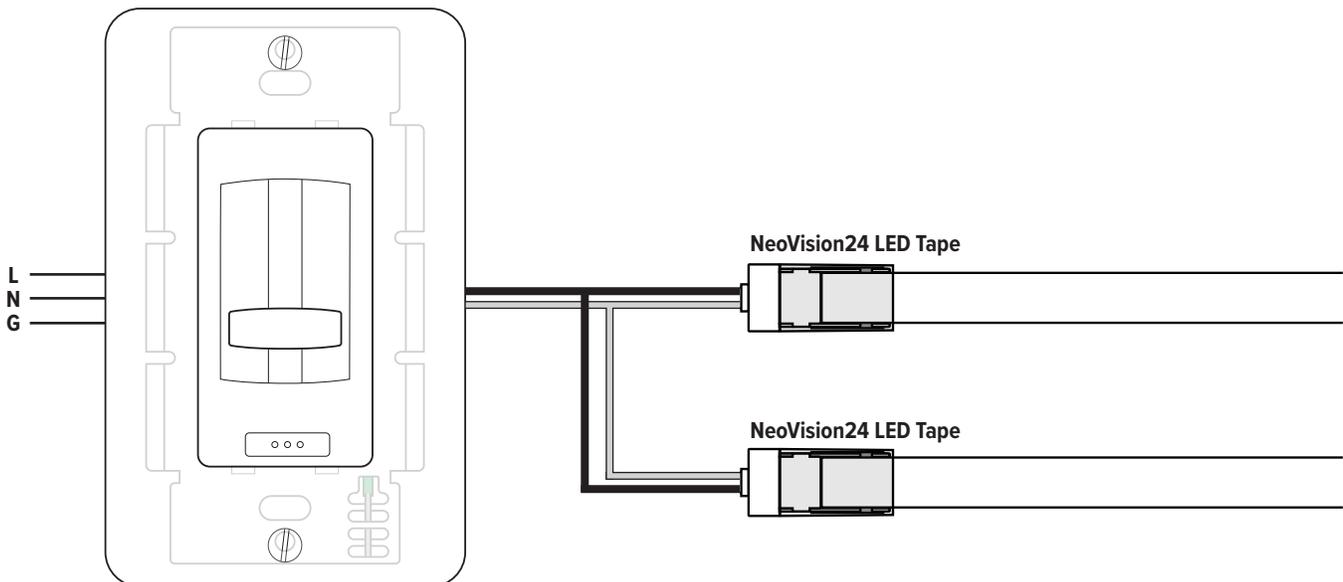
RF CONTROLLER

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.

L N G

LineDrive
Power Supply

24V DC

CM-RF-UNV-5CH
RF Controller

RPT-UNV-5CH
Repeater

24V DC

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

LineDrive
Power Supply

L N G

HC-RF-UNV-5CH
RF Remote Control

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

RPT-UNV-5CH
Repeater

24V DC

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

LineDrive
Power Supply

L N G

RPT-UNV-5CH
Repeater

24V DC

NeoVision24 LED Tape

12V - 60W MAX LOAD
24V - 96W MAX LOAD

LineDrive
Power Supply

L N G

CONTROLLERS

Product No.	Description
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

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

POWER SUPPLIES

Product No.	Description
LD-E-UNV Series	LineDRIVE 12V / 24V Non-Dimmable Power Supplies
LD-XD-UNV Series	LineDRIVE 12V / 24V Power Supplies
LTP Series	24V Electronic LED Power Supplies

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Flexible Neon LED Tape
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RF REMOTE CONTROLLER AND REPEATER

Use 12V or 24V dc to match LED voltage

AC

AC TO DC

LED = **WHITE**

CM-RF-UNV-5CH
RF Controller

to other
LED Groups

5 in 1 LED Strip Controller (2.4GHz)
Model No.: CM-RF-UNV-5CH
Input Voltage: DC12V–48V
Output: 6A/Channel
Total Output: Max 15A
Working Temp.: -10–40°C
Control Distance: 30m
Made in China

Indicator Output Mode	
White	Single Color
Yellow	Tunable White
Red	RGB
Green	RGBW
Blue	RGB+TW

• Press " SET " button 1 time to activate linking mode
• Press " SET " button continuously to change output mode

DIMENSIONS

DC Terminals

DC Jack Input

LED Indicator for Output Mode

SET Button for Output Mode

1.5" (38mm)

0.91" (23mm)

4.88" (124mm)

CM-RF-UNV-5CH
RF Controller

5 in 1 LED Strip Controller (2.4GHz)
Model No.: CM-RF-UNV-5CH
Input Voltage: DC12V–48V
Output: 6A/Channel
Total Output: Max 15A
Working Temp.: -10–40°C
Control Distance: 30m
Made in China

Indicator Output Mode	
White	Single Color
Yellow	Tunable White
Red	RGB
Green	RGBW
Blue	RGB+TW

1.89" (48mm)

4.53" (115mm)

1.06" (27mm)

5-Channel High Performance Amplifier
Model No.: RPT-UNV-5CH
Input Voltage: DC12V/24V
Output Voltage: DC12V/24V
Output Current: 6A/Channel
Total Output: Max 15A
Made in China

Switching Rate: 10Mbps
Connection: common anode
Working Temperature: -20–60°C

RPT-UNV-5CH
Repeater Amplifier

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RF HAND HELD REMOTE FEATURES AND DIMENSIONS

RF Remote Control
HC-RF-UNV-5CH
with Built-In Effects

Color Ring

Indicator Light

Saturation
Control
(when RGB is on)
CCT Control
(when Tunable
White is on "W")

White/Tunable White

Master **ON**

| ON | W | OFF |

Master **OFF**

Speed - (for Mode)

| S- | M | S+ |

Speed + (for Mode)

Mode

"❙" Zone ON /
Link(Unlink)

| ❙ 1 ○ | ❙ 2 ○ |

"○" Zone OFF

Allows up to 6 zones.
Can have different
remotes for each zone.

| ❙ 3 ○ | ❙ 4 ○ |
| ❙ 5 ○ | ❙ 6 ○ |

Preset

| 1 | 2 | 3 | 4 |

GMLighting®

0.7"
18mm

1.88"
47.7mm

6.0"
152mm

| ON | W | OFF |
| S- | M | S+ |

❙ 1 ○	❙ 2 ○
❙ 3 ○	❙ 4 ○
❙ 5 ○	❙ 6 ○

| 1 | 2 | 3 | 4 |

GMLighting®