

2CH CCT/DMX Controller

Quick Start Guide



The Rosco 2CH/DMX Dimmer offers simple, versatile control of 12VDC VariWhite Tape products. Select a color temperature and then enjoy smooth, flicker-free dimming from 100% - 0% using the intuitive controls. The compact dimmer module offers three primary control modes: Manual, CCT or DMX.

Manual dimming is available via the rotary encoder knobs on the controller. Each encoder knob corresponds to one of two 12VDC outputs, providing independent dimming of two separate strings of LEDs (i.e. Warm & Cool). A maximum total load of 5A can be split between the two channels.

In CCT mode a specific color temperature between 3000K and 6000K can be dialed in using the left encoder knob, while dimming output is controlled using the right encoder knob.

For applications where automated control via DMX is desired, simply plug the dimmer unit into a DMX control console. The presence of a DMX signal is automatically detected and overrides any setting of the manual encoders. If the DMX signal is lost, control reverts immediately to the previous setting of the manual encoder.

Power to the 2CH/DMX Dimmer unit is provided by a 3A transformer (included with the purchase of a RoscoLED Gaffer Kit). An optional 5A transformer is available from Rosco as a separate accessory.



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The 2CH/DMX LitePad Dimmer is simple to set up and use. Power to the unit is provided by a 3A transformer, 12VDC Car Adapter or AA Battery Pack. RoscoLED VariWhite Tape products can be controlled via the two channels. **A maximum combined load of 5A can be connected to the two outputs.**

- Attach a Rosco LitePad transformer, Car Adapter or Battery Pack to the 12VDC input.
- Connect the RoscoLED VariWhite Tape or Tiles to CH 1 and CH 2 via the attached barrel connectors. Using LitePad Splitter cables or 3-way Spider cables, multiple pieces of RoscoLED VariWhite Tape or Tiles may be connected to a single output. **The load of each piece connected should be added together to determine full load on the 2CH/DMX LitePad Dimmer.**



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MANUAL CONTROL

- Place the Run Mode switches to “CH1/2 Mix” and “Manual” settings.
- To control brightness of the RoscoLED Tape/Tile(s) from 0 to 100% output, rotate the left/right encoder knob corresponding to the correct Warm or Cool LED string attached to each channel.
- The rotary encoder knobs can be depressed to instantly turn on/off each output channel.
The digital display above the encoder knob indicates the On/Off or % Dimming status of the RoscoLED product(s) connected to that output channel. (Image 1)



Image 1

CCT CONTROL

- Place the Run Mode switches to “CCT” and “Manual” settings.
- To select the Color Temperature from 3000K to 6000K, rotate the left encoder knob to the desired setting. The digital display will indicate the current Color Temperature setting.
- To control brightness of the RoscoLED Tape/Tile(s) from 0 to 100%, rotate the right encoder knob to the desired output. The digital display will show the %Output. The Color Temperature set point will be maintained throughout the dimming cycle. (Image 2)
- The right rotary encoder knob can also be depressed to instantly turn on/off the output.



Image 2

DMX CONTROL

- Connect a 5-Pin DMX cable from your DMX lighting console to the DMX input jack of the 2CH/DMX Dimmer.
Set Run Mode switch to DMX mode.
Note: If a valid DMX signal is present, control by the manual encoders is automatically by-passed.
- The 2CH/DMX Dimmer captures 2 channels of DMX to control the two individual outputs.
To set the DMX address of the unit, Press and Hold encoder knob for Channel 1. Rotate the encoder knob for Channel 2 to scroll through DMX Address values. When you reach the desired address, release Encoder Knob 1. The digital display will indicate dXXX to denote the address that has been programmed. For example d015 in the display indicates that channel 1 is set to DMX Address 15. (Image 3)
The Channel 2 address is automatically set to the next DMX address in line; in this case DMX address 16.
- If a DMX signal is interrupted or lost, control immediately reverts to the manual control. **DMX state is not maintained in the event of a signal loss.**



Image 3

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LOAD CHART / POWER CONSUMPTION

Item Number	Description	Watts	Amps
29322120BI12	RoscoLED Tape: VariWhite w/Barrel Conn, 12VDC, 12in	5.8w	0.48A
29322120BI24	RoscoLED Tape: VariWhite w/Barrel Conn, 12VDC, 24in	11.6w	0.96A
29322120BI36	RoscoLED Tile: VariWhite w/Barrel Con, 12VDC, 3"x6"	19.2w	1.60A

DEBUGGING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Controller does not respond to DMX control, but Run/Mode switch is set to DMX.	Unit set to incorrect DMX address.	Check DMX address.
Unit does not respond to DMX, DMX display indicator is off.	No DMX signal is being received. Bad Cable.	Check cable and DMX run from the console.
	No DMX plugged in. Power off at the console.	
Digital display indicates "Err".	Power draw exceeds rating on dimmer or transformer. Power supply not providing correct voltage in 11-15V DC range.	Check RoscoLED load and confirm that it does not exceed ratings on transformer or dimmer. Check input voltage levels.

Go to www.rosco.com/RoscoLED for more information on this and other RoscoLED Tape products.