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QolorFLEX® 4x5A DINrail RJ45 Dimmer
P/N 5823
Quick Start Guide

FEATURES & COMPONENT IDENTIFICATION

ALPHA/NUMERIC DISPLAY

USER CONTROLS

DMX IN/OUT RJ45's

CHs 1-4 OUTPUT TERMINALS

COMMON (V+) OUTPUT TERMINAL

DC+ INPUT TERMINAL

DC- INPUT TERMINAL

DC- INPUT TERMINAL

DC+ INPUT TERMINAL
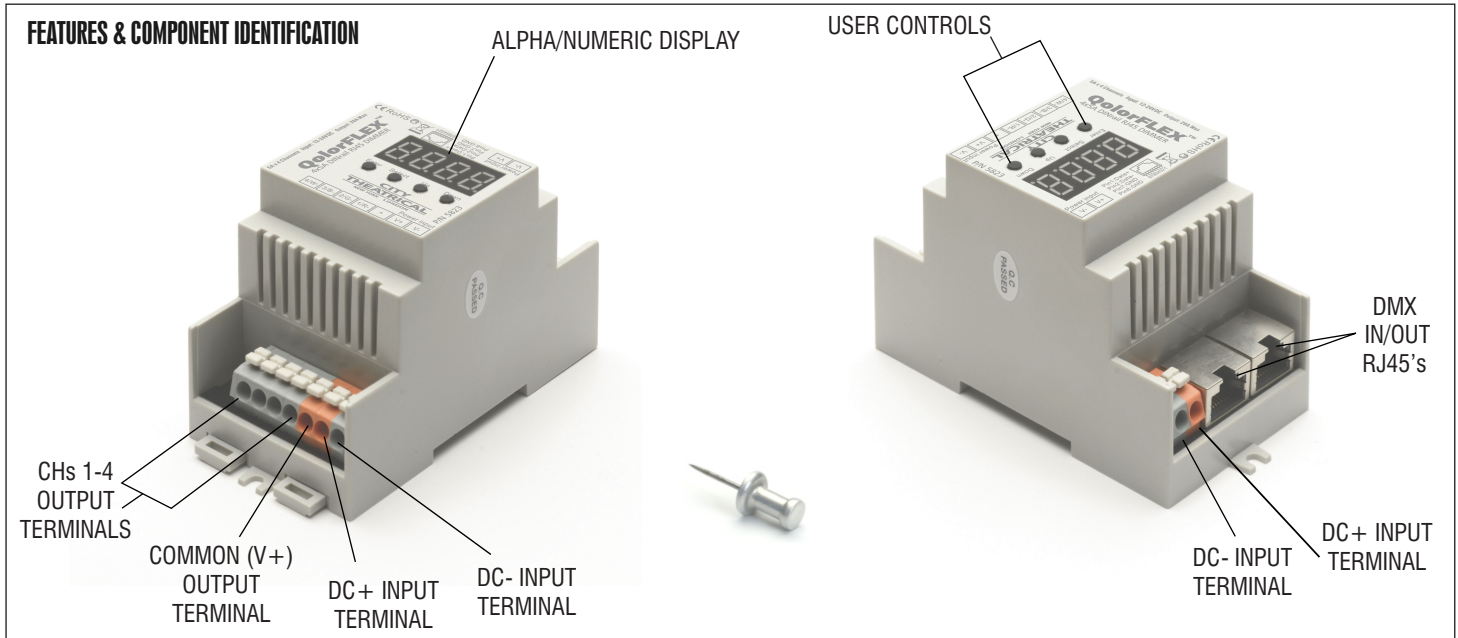
The QolorFLEX 4x5A DINrail RJ45 Dimmer can control a full 20A of LED tape spread over four channels of 5A each. It uses constant voltage technology which ensures consistent full range dimming that is especially important at low end light levels. The unit mounts to a standard hat section DINrail, and features two RJ45 connectors for DMX communication.

An easy to read onboard display and four button user interface allow selection of DMX addresses, setting quantity of DMX channels, selecting 8 or 16 bit output resolution, setting PWM frequency (500Hz to 30KHz), setting output dimming curve values for matching the dimming curves of other dimmers in use, and setting the device's operating profile. The QolorFLEX 4x5A DINrail RJ45 Dimmer is also RDM capable.
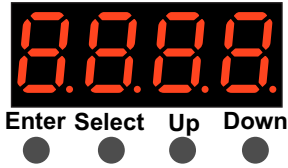
The unit requires a separate power supply providing input voltage of 12-24VDC. The maximum current load per channel is 5A with a maximum device output of 20A.

The QolorFLEX 4x5A DINrail RJ45 Dimmer operates perfectly with City Theatrical's QolorFLEX LED tape, the LED tape of professionals on Broadway, network television, and architectural lighting installations.

Quick Start Instructions:

1. Connect the QolorFLEX 4x5A DINrail RJ45 Dimmer to your DMX controller using a cable connected to either of the RJ45 DMX input/output connectors. Connect the DMX out cable to the other RJ45 connector as needed.

2. Connect your load to the output channel spring terminals. For single color LED tape with two connection wires, connect the V- (black) wire to any one of the four output channel terminals and the V+ (red) wire to its corresponding terminal. When using multi-color LED Tape, connect as follows: CH1-red, CH2-green, CH3-blue, and CH4-fourth color. **Note-The V+ (common) circuit for multicolor tape will be connected to either a black or white wire. To determine which is correct, look at one of the sets of contacts on the tape itself and note which color wire is connected to the one labeled (+). Do not exceed the maximum load capacity of 5A per channel.**

3. Connect the appropriate power supply providing 12-24VDC to the power input spring terminals. **Note-The size of the power supply must match the tape being used in both voltage and watts. QolorFLEX™ 4x5A DINrail RJ45 Dimmer's maximum output power rating is: 240W (12V), and 480W(24V).**

Control Interface

Enter   Select   Up   Down
●   ●   ●   ●

Note*- To restore factory defaults, press and hold both "Enter" and "Select" for five seconds until display goes out.

Operation:

1. Press "Up" to scroll thru menu choices
2. Press "Select" to enable programming- (display flashes)
3. Use "Up" or "Down" buttons to set values
4. Press "Enter" to save value.

The six function menus are:

`A001` DMX Address	`PF01` PWM Frequency
`CH04` DMX Channel Qty	`9A1.5` Dimming Curve Value
`bt16` Output Resolution	`dP1.1` Operating Profile

DMX Start Address- *(Factory default is 001)*
Sets the DMX address for the dimmer.

DMX Channel Qty- *(Factory default is 04)*

SETTINGS:

CH01: DMX addresses 1,2,3,4 = 001
CH02: DMX addresses, 1,3 =001, 2,4 =002
CH03: DMX addresses, 1,2 =001, 3 =002, 4 =003
CH04: DMX addresses, 1 =001, 2 =002, 3 =003, 4 =004

Output Resolution- *(Factory default is 16)*

Resolution determines the smoothness of the dimming. 8 bit uses one DMX channel, while 16 bit uses two.

AVAILABLE SETTINGS: **08** or **16**

PWM Frequency *(Factory default is 05)*
PWM frequency is used to tune the dimmer for flicker free operation when used with high speed cameras. A high PWM value produces the least amount of flicker. A low PWM value produces better dimming quality. Always perform a camera test to confirm optimal results.
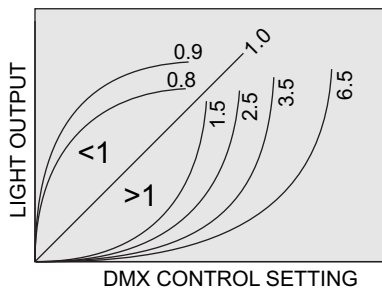
AVAILABLE SETTINGS: **00** thru **30**
Values: 00 = 500Hz
01 to 30 = 1kHz to 30kHz

Dimming Curve   *(Factory default is 1.5)*

The Dimming Curve may be adjusted to affect the rate of rise and fall of the dimmer. Values less than 1.0 increase the rate, while values greater than 1.0 decrease the rate. (1.0 is linear)

AVAILABLE SETTINGS: **0.1** thru **9.9**

Device DMX Profiles *(Factory default is 1.1)*

DMX Address is 001, CH01

	dp1.1	dp2.1
Channel 1	For all output dimming	For all output dimming
Channel 2	——	For all output Fine dimming

DMX Address is 001, CH02

	dp1.1	dp2.1	dp3.2
Channel 1	For output 1,3 dimming	For output 1,3 dimming	For output 1,3 dimming
Channel 2	For output 2,4 dimming	For output 1,3 Fine dimming	For output 2,4 dimming
Channel 3	——	For output 2,4 dimming	For all output dimming
Channel 4	——	For output 2,4 Fine dimming	——

DMX Address is 001, CH03

	dp1.1	dp2.1	dp4.3	dp5.3
Channel 1	For output 1 dimming	For output 1 dimming	For output 1 dimming	For output 1 dimming
Channel 2	For output 2 dimming	For output 1 Fine dimming	For output 2 dimming	For output 2 dimming
Channel 3	For output 3,4 dimming	For output 2 dimming	For output 3,4 dimming	For output 3,4 dimming
Channel 4		For output 2 Fine dimming	For all output dimming	For all output dimming
Channel 5		For output 3,4 dimming	For all output dimming	Strobe Effects
Channel 6		For output 3,4 Fine dimming		

DMX Address is 001, CH04

	dp1.1	dp2.1	dp5.4	dp6.4
Channel 1	For output 1 dimming	For output 1 dimming	For output 1 dimming	For output 1 dimming
Channel 2	For output 2 dimming	For output 1 Fine dimming	For output 2 dimming	For output 2 dimming
Channel 3	For output 3 dimming	For output 2 dimming	For output 3 dimming	For output 3 dimming
Channel 4	For output 4 dimming	For output 2 Fine dimming	For output 4 dimming	For output 4 dimming
Channel 5		For output 3 dimming	For all output dimming	For all output dimming
Channel 6		For output 3 Fine dimming		Strobe Effects
Channel 7		For output 4 dimming		
Channel 8		For output 4 Fine dimming		