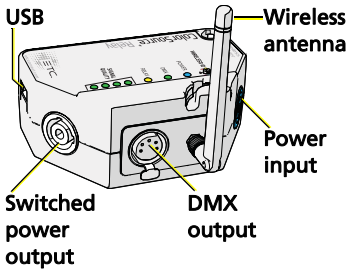


# ETC Quick Guide

## ColorSource Relay

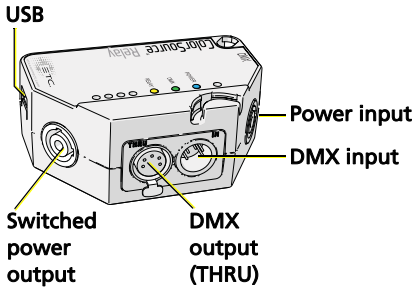
### Overview

#### ColorSource Relay Multiverse Receiver

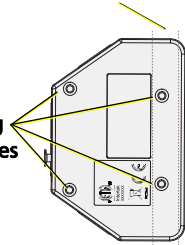


For both models:  
Recommended placement  
for yoke and pipe mount kits

#### ColorSource Relay DMX



Mounting  
screw holes



ETC fixtures manufactured  
before July 2015 require the  
Universal Yoke Mount Kit.

ColorSource Relay manages power switching and DMX for a connected chain of equipment. Relays fire at zero cross and automate a randomized turn on delay up to 2 seconds to minimize effects of inrush while turning on multiple fixtures on a circuit or many circuits in a system.

Relay activation can be triggered in one of three ways:

- **Auto Mode:** Relay turns on when DMX/RDM input is detected. Relay turns off five minutes after data is last detected. (**Default Mode**)
- **DMX Mode:** Relay turns on when DMX address 512 is at or above 50% and turns off when below 50%. The relay can also be patched via RDM to an address between 1 and 511. Changing the address from 512 disables the turn on delay function of the relays.
- **RDM Mode:** Relay turns on when it receives an RDM command to turn on. The relay remains on until it receives an RDM command to turn off, or until power is cycled to the unit.











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## ColorSource Relay

### LED Indicators

<b>DMX Relay</b>  POWER   DMX   RELAY 	<b>Wireless DMX Relay</b>  WIRELESS ID  POWER   DMX   RELAY   SIGNAL QUALITY 	<b>LED</b>	<b>Solid</b>	<b>Off</b>	<b>Blinking</b>
		<b>POWER</b>	Incoming power	No incoming power	Updating software
		<b>DMX</b>	DMX is present and valid	N/A	No DMX data
		<b>RELAY</b>	Output is on	Output is off	N/A

### Wireless ID Settings

The wireless IDs for the transmitter and receiver must match. The color of the power LED changes to identify which ID is being used. The default ID is 1.

For third-party product compatibility with City Theatrical SHoW DMX products including SHoW DMX Neo®, see the table below.

ColorSource Relay	SHoW Baby	SHoW ID	City Theatrical Description
1	Green	201	Neo Adaptive
2	Cyan	102	Neo Full Bandwidth
3	Magenta	117	Neo Low Limited Bandwidth
4	White	133	Neo Mid Limited Bandwidth
5	Red	149	Neo High Limited Bandwidth
6	Yellow	165	Max Technology
C	Blue	Set via RDM	Custom



**Note:** *If there are more than two SHoW DMX Neo transmitters in a system with a ColorSource Relay Multiverse (CSR-M) receiver, make sure that only one transmitter ID is set to each of the following ranges:*

- 117–132
- 133–148
- 149–164
- 165–166

*See the next page for a table of safe channel assignments for systems with two SHoW DMX Neo transmitters.*

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## ColorSource Relay

			Neo Transmitter B					
			101–116	117–132	133–148	149–164	165–166	201–204
			Cyan	Magenta	White	Red	Yellow	Green
Neo Transmitter A	101–116	Cyan						Safe
	117–132	Magenta			Safe	Safe	Safe	
	133–148	White		Safe		Safe	Safe	
	149–164	Red		Safe	Safe		Safe	
	165–166	Yellow		Safe	Safe	Safe		
	201–204	Green	Safe					

## RDM

Use any RDM controller, such as Concert (v4.1.1 or later) or Eos Family software, to configure the options below (default values are in bold).

Parameter	Values	Comments
Name	ColorSource Relay	
RDM Enable	<ul style="list-style-type: none"> <li>00 = disable</li> <li>01 = enable</li> </ul>	Enable/disable RDM traffic on the wireless bridge's DMX output
DMX Address	1– <b>512</b>	
Threshold	1–99%	Default is <b>50%</b>
DMX Loss Time	1–30 minutes	Default is <b>5 minutes</b>
Max Turn On Delay	0–30 seconds	Default is <b>2 seconds</b>
Relay Personality/Mode	<ul style="list-style-type: none"> <li><b>01 = Auto Mode</b></li> <li>02 = DMX Mode</li> <li>03 = RDM Mode</li> </ul>	
Wireless ID	<ul style="list-style-type: none"> <li><b>1=201</b></li> <li>2=102</li> <li>3=117</li> <li>4=133</li> <li>5=149</li> <li>6=165</li> </ul>	Editable if ID is set to C on UI. See <a href="#">Wireless ID Settings</a> on <a href="#">page 2</a> .
Identify	<ul style="list-style-type: none"> <li><b>00 = deactivate</b></li> <li>01 = blink all LEDs</li> </ul>	1 minute timeout

# ETC Quick Guide

## ColorSource Relay

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### Update Receiver Software

- 1: Download receiver software at [etconnect.com](http://etconnect.com) and save the file (or files) to a USB drive that is formatted with FAT:
  - Wired receiver: Software file name begins with “CSRD”
  - Wireless receiver: Two software files, one name beginning with “CSRM” and the other with “5995”
- 2: Insert the USB drive into the receiver and reboot it. The RELAY LED blinks during radio programming, and the DMX LED blinks during CPU programming.

While the relay is updating, the power LED blinks to indicate the following status information:

- **Fast blinking:** Looking for USB drive
- **Red:** Upgrade failure
- **Cyan:** Waiting for USB drive connection (no app loaded)
- **Magenta:** File not found

### Specifications

See the ColorSource Relay datasheet at [etconnect.com](http://etconnect.com) for full specifications.



**Note:** *Only connect this equipment to protected branch circuits of 16 A or less.*

Input voltage	90–250 V, 47–63 Hz
Switching current	2 pole, 16 A max
Environment	0°C–40°C; 5–95% humidity
Wireless band	2.4 GHz FHSS

### FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including any interference that may cause undesired operation.

Contains: FCC ID VU65995

Contains: IC ID 7480A-5995

### EU Declaration of Conformity

This product complies with the essential requirements of the Radio Equipment Directive of the European Union 2014/53/EU (RED).

This product conforms to the following standards:

- ETSI EN 300 328 v2.1.1(2016)
- ETSI EN 301-489-1 v2.1.1(2017)
- ETSI EN 301-489-18 v3.1.1(2016)