

# RC3A12 RF REMOTE, TRI-ZONE



**Thank you for choosing Cyron products!** At Cyron we are committed to provide the latest lighting technology without any compromises. Please read instructions completely before starting installation.

**TOOLS NEEDED:**

Wire stripper, Wire cutter, Electrical tape, Connector Crimper may be used.

**INSTRUCTIONS:** Follow the wiring diagram below to install the remote. It is best to make the 12VDC power connection directly to the battery posts. Remove fuse from fuse holder during the installation process. Make all connections securely, following proper electrical practices. Keep wires away from excess heat and moving parts. Consult your vehicle owners manual if you would like to connect to accessory switches. Do not exceed max current capacity and power rating of vehicle accessories.

Cyron RC3A12 is able to operate in basic mode (Uni-Zone) or advance mode (Tri-Zone). In the Uni-Zone mode all the lights work together with a simple on/off operation. In this mode buttons 2, 3, 4 of the remote are deactivated.

In the Tri-Zone mode three zones (groups) of LEDs work almost independently. For example in a motorcycle lighting project Zone1 can be the lights around the motor, Zone2 can be the ground effect lights, and Zone3 can be lights in the wheels. Each controller channel is dedicated to a zone of lights. In fact, each zone can be any 12VDC LED that draws 3Amp or less.

**IMPORTANT:** Total controller capacity is 3x 3A or 9A. Do not exceed this rating. Serious damage to controller and wiring will be caused.

**OPERATIONS:** *Pair Up Remote:* The first step is to pair up the remote to the controller. With all wiring completed remove the fuse from fuse holder. Replace fuse back and within 5 seconds press button 1 three consecutive times. All channels should flash 5 times confirming the pair up process. If not successful repeat process again.

*Operation Modes:* The controller presently is either Uni-Zone or Tri-Zone modes. Test by pressing button 2 to see if any changes in lights take place. If pressing 2 does not change the lights the remote is in Uni-Zone mode. If the lights do change the remote is in Tri-Zone mode.

**Change from Uni-Zone to Tri-Zone:**

1. Turn the lights off using Button 1.
2. Press and hold buttons 3 and 4 for one second.
3. Ch2 will flash 5 times to confirm.

**Change from Tri-Zone to Uni-Zone:**

1. Turn the lights off using Button 1.
2. Press and hold buttons 1 and 2 for one second.
3. Ch1 will flash 5 times to confirm.

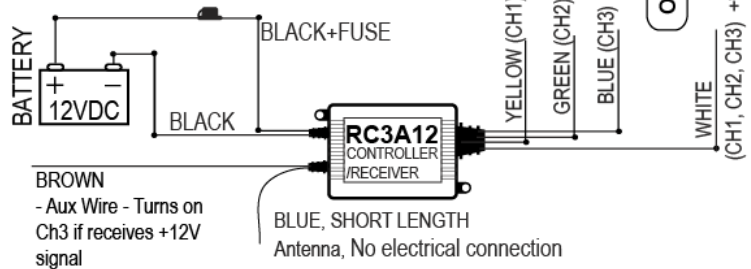
A vast array of features are available in Tri-Zone mode. There are 10 light modes, 5 static and 5 dynamic. In Static modes the lights are on solid without any movement. In Dynamic modes the lights (channels) go through a pre-programmed sequence of patterns which are appropriately named in the chart below. Speeds of the patterns are adjustable by pressing button 3 to decrease and button 4 to increase. There are 5 speeds in each Dynamic mode.

**Brake light trigger/Aux Wire:** This feature will make the accent light system become a safety or deterrent feature. Connecting Aux Wire to +12VDC will turn on Channel 3 regardless if the controller is on or off. For instance, connect Aux wire to brake lights and every time brakes are applied the lights of Ch3 can be additional visual signal. NOTE: Consult with your local laws regarding additional driving lights on vehicles. Another usage can be connecting Aux wire to output of an alarm system. Ch3 would turn on when alarm is triggered.

**Battery Saver:** Controller will cut off the light system if the supply voltage (vehicle battery) drops too low, preserving the battery for starting the vehicle. With this feature the lights can be left on without worrying about a dead battery. This feature does not apply to 24VDC supply voltage.

WIRE COLOR	CONNECTION/FUNCTION
WHITE	Output Common
YELLOW	Output Channel 1
GREEN	Output Channel 2
BLUE	Output Channel 3
BLACK	-12V, battery
BLACK w/ fuse	+12V, battery
BROWN	Brake / Aux Trigger
BLUE short	Antenna, No Connection

**CYRON, INC. RC3A12 REMOTE CONTROL**



**BUTTON & FUNCTION**

1. ON/OFF
2. MODE
3. SPEED, DECREASE
4. SPEED, UP



Modes in Tri-Zone (button 2 to change)	Channel 1	Channel 2	Channel 3
1 (Static)	ON	ON	ON
2 (Static)	ON	ON	OFF
3 (Static)	ON	OFF	OFF
4 (Static)	OFF	ON	ON
5 (Static)	OFF	OFF	ON
6 (Dynamic)	SHOW OFF		
7 (Dynamic)	BRING IT ON		
8 (Dynamic)	HEART BEAT		
9 (Dynamic)	KNOCKOUT		
10 (Dynamic)	BLIND SHOT		

**SPECIFICATIONS**

Operating Voltage 12-24VDC, 3x3A (9A peak)  
 Control Processor PWM, Common Anode  
 Cutoff Voltage 11.35V  
 Standby Current 16mA  
 Transmitter Freq 433MHz



**WARRANTY**

Cyron warrants this product against any defects in materials or workmanship for a period of ONE (1) year from the date of purchase. The warranty covers normal usage as intended by the factory and does not cover misuse, abuse, accidents, or damages caused due to the acts of God. Proof of purchase is required. ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OF IMPLIED. IN NO EVENT SHALL CYRON, INC. BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, ACCESSORY OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

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CYRON, Inc.  
 Warranty Claim Dept  
 21029-C Itasca Street  
 Chatsworth, CA 91311 USA

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<u>Part Number</u>	<u>Description/Application</u>
CV62C-[color]	Convex 6LED Cluster, Chrome finish PAIR
CV62-[color]	Convex 6LED Cluster, Black finish PAIR
CV610C-[color]	Convex 6LED Cluster, Chrome finish BULK PACK 10pcs
CV610-[color]	Convex 6LED Cluster, Black finish BULK PACK 10pcs
FL30-[color]	FlexLED super flexible strips, 30LED, 12"
CMF1202	Rigid mount for FlexLED, for ground effect & under bags
CON-TB005	Solder-less Terminal Block, 5 outlet
ABH4K-A6K	Headlight LED bulb retrofit kit, H4
AB881-A6K	Driving Lamp, LED 880, 881 fitting
RC3A12-REM	Spare remote for RC3A12

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System diagnostics:

<i>LIGHTS DO NOT TURN ON</i>	<i>Diagnosis</i>
Is the supply voltage connected properly?	Make proper connection to battery terminals
Is the fuse in the fuse holder? Is it the fuse blown?	Check the fuse. Fuse type 5A or 7.5A small blade
Has the remote been paired up with controller?	Take fuse out and plug back in. Within 5 seconds of plugging in press button "1" on the remote 3 times. All channels should flash 5 times indicating the remote and controller have been paired. With same procedure up to two remotes can be learned by the controller. Pairing up a 3rd remote will erase the first one.
<i>REMOTE NOT FUNCTIONING</i>	<i>Diagnosis</i>
Remote indicator light does not turn on	Check remote battery. Type 27A. Cyron Part# BAT-27A
Remote indicator light stays on	The buttons have been pressed too hard. The silicon rubber buttons can be put out of alignment if pressed with too much force. Gently rock the buttons as they are being pressed to set them back in place.



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