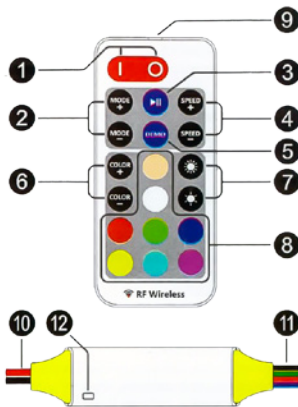# R F R e m o t e

COLOR SELECT
PRODUCT GUIDE

FEATURES

- 42 dynamic modes
- 30 static colors
- 256 level PWM
- Adjustable speed
- Adjustable brightness
- Credit card size remote
- Demo mode
- 1 to 1 paired remote
- Auto save function

FUNCTIONS

1 : Turn on/Standby	Press 'I' key to turn on the CS-200 or press the 'O' key to turn off.	
2 : Dynamic Mode	Switch between the 42 different dynamic modes or switch to dynamic mode from color mode.	
3 : Play/Pause	While on a dynamic mode, press this key to play and pause the mode. Pressing will also switch to dynamic mode.	
4 : Speed Adjust	Adjust the speed of the different dynamic modes. Will switch to dynamic mode if pressed.	
5 : Demo Mode	Will switch to demo mode. In demo mode, it will run 27 different dynamic modes in a row, 3 times each.	
6 : Static Color	Cycle through the 30 different dynamic colors. Will switch to color mode when pressed.	
7 : Brightness	Adjusts the colors brightness when in color mode. Will switch to color mode when pressed.	
8 : Direct Color	Shortcut keys to 8 different static colors.	
9 : Indicator Light	The indicator will blink when the remote is functioning correctly.	

INSTALLATION

1.   Power Supply

IFX's CS-200 accepts 5-24VDC. The inner pole polarity is positive and the sleeve is negative. Please insure proper selection of the power supply. illuminFx offers many options, contact for more information.

2.   LED Output

This unit supports common anode connection from LED products. The black wire from the in line controller is the common voltage wire. All wires must be connected correctly from LED fixtures to ensure correct operation.

3.   Remote Control

Please remove insulation from battery compartment before using. The RF wireless signal can pass through almost all barriers, so it is not necessary to aim remote directly at the in line controller. However, to ensure communication, do not install the in line controller in a metal enclosure. This controller uses a 3V CR2025 type battery, please replace with the same battery type.

OPERATION

1.   Status Indicator

The CS-200 inline controller has a color changing LED on it to indicate the status of the Color Select. The different statuses are:

Blue : Functioning normally

Short Single White Flash : New command from RF remote

Long Single White Flash : Reached end of mode or color cycle

Long Single Yellow Flash : Reached speed or brightness limit

Blue Flash : Dynamic mode paused

Red Flash : Overload protection

Yellow Flash : Overheat protection

2.   Using the Remote

Remove the battery insulating tape before using. The RF wireless remote signal can pass through most barriers. For optimal signal strength, do not install CS-200 inside a metal enclosure.

3.   Pairing a New Remote

The RF remote and inline controller are paired as default when shipped. Each inline controller can be paired with a maximum of 3 RF remotes, and every RF remote can be paired to any inline controller. Follow the following steps to pair a new remote:

1.   Unplug the power to the inline controller and plug it back in after 5 seconds.

2.   Within 5 seconds of the inline controller being plugged back in, on the RF remote, press the 'MODE –' and 'SPEED –' at the same time.

After a successful pairing, the indicator light on the inline controller will flash white 3 times. NOTE: only the last 3 paired remotes will be recognized by the controller.

illumin**fx**

OPERATION CONT.

NOTE : This new CS-200 operates at 8Khz to provide for flicker free operation. This allows for smooth transitions from colors at both fast and slow speeds. The controller can combat most outside sources of interference, but make sure to avoid driving strong inductive loads.

4.   Protection

The CS-200 is fully protected from output short circuit, overload, and overheat. The indicator will flash red at an overload or short circuit, and flash yellow at overheat. The CS-200 will automatically recover from protection when working status is back to normal.

NOTE: Please ensure LED loads are in rated range, and that there are no shorts in the system. In addition, make sure the controller is installed in an environment with good heat dissipation.

5.   Free Remote Pairing

In some cases, it may be necessary for the CS-200 inline controller to be controlled from any RF remote. Follow these steps:

1.   Unplug the power to the inline controller and plug it back in after 5 seconds.
2.   Within 5 seconds press the 'ON' and 'PAUSE' keys together on the RF remote.

After this operation, the indicator light will flash yellow 3 times to show that the command was accepted. The inline controll will now recognize any remote. To pair the RF remote back to a controller refer back to 'Pairing a New Remote' section of this guide.

ADVANCED FEATURES

1.   Waterproof

The new CS-200 inline controller is IP–68 rated and therefore can be installed underwater up to 30m. Correct water tight connections need to be ensured.

NOTE: Warranties are void if connections are made incorrectly that cause water intrusion into the inline controller.

2.   Flicker Free

The CS-200 works as a PWM controller. This means it switches the LEDs on and off at a very high speed that is imperceptible to the human eye. This new CS-200 runs at 8Khz which means all brightnesses and color transitions are very smooth and flicker free.

SPECIFICATIONS

Dynamic Modes	43 Modes
Static Colors	30 Colors
PWM Grade	256 Levels
Brightness Grade	5 Levels
Speed Grade	10 Levels
Overload Protection	Yes (Red Flashing Light)
Overheat Protection	Yes (Yellow Flashing Light)
Working Voltage	5–24 VDC
Remote Frequency	433.92 MHz
Remote Distance	>15 meters in open area
Working Temp.	-22°–176°F
Rated Output Current	3 x 5A
PWM Frequency	8 KHz
IP Grade	IP68

 illuminfx