RGB Pocket Dimmer User Manual

Five Twelve Engineering

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1. Overview

RGB Pocket Dimmer is a compact LED dimmer for professional film, television, and production lighting. It provides five PWM-controlled outputs for 24V LED loads, with wireless CRMX/DMX control or local manual control.

Operation Mode selects how you control the lights: **DMX** from a lighting console, or **Manual** using the three buttons. **Output Mode** selects the connected LED configuration:

Output Mode	Configuration
M1 - Cine-Five	Five-channel RGB + tunable-white LED products.
M2 - Dual Hybrid	Two independent tunable-white LED loads.

Operation Mode and manual looks are remembered after power cycling. Each output mode keeps its own manual look.

2. Quick Start

With power off, connect the LED load to the 6-pin output connector. Connect a regulated **24V DC** supply sized for the load and allow the unit to initialize. Set **Output Mode** to match your LED wiring.

Wireless DMX control

1. Open Settings and choose **OPERATION MODE > DMX**. Press Middle to save.

2. Set **DMX ADDRESS**, then link the receiver using your CRMX transmitter.

3. Confirm **DMX** on the home screen and bring up the light from the console.

Manual control - no DMX required

1. Open Settings and choose **OPERATION MODE > MANUAL**. Press Middle to save.

2. On the manual home screen, use Top/Bottom to select a parameter and press Middle.

3. Press or hold **Top to increase** or **Bottom to decrease**. The light changes live. Press Middle to finish editing.

In Manual, select SETTINGS at the end of the home-screen parameter list to open the menu. In DMX, press Middle from home.

3. Controls

The three buttons are arranged vertically: **Top**, **Middle**, and **Bottom**. Their functions depend on the screen.

Screen / action	Top	Middle	Bottom
Menus / manual parameter list	Previous item	Select item	Next item
Manual value editor	Increase value	Finish editing	Decrease value
DMX address editor	Decrease address	Save address	Increase address
Output / Operation Mode	Change choice	Save choice	Change choice
DMX home screen	No action	Open Settings	Hold 3 seconds to unlink CRMX

Manual editing: holding Top or Bottom repeats after about half a second and accelerates after 3 seconds. Percentages change in 1% steps; CCT changes in 50K steps. Values stop at their minimum and maximum.

Navigation: the parameter list wraps from the first item to the last and back again. The DMX address editor retains its existing button directions and wraparound behavior.

4. Home Screen

DMX home

Shows the DMX start address, M1/M2 output mode, CRMX connection status, signal bars, incoming values, and physical output levels. Press Middle to open Settings.

Manual home

Shows **MANUAL**, the output mode, save status, and a scrolling list of parameters with their current values. Select a parameter to edit it, or select **SETTINGS** at the end of the list. Manual home does not show DMX signal bars or the DMX output-bar display.

4.1 CRMX status - DMX home

Display	Meaning
UNLINKED	Receiver is not linked to a CRMX transmitter.
LINKED	Linked, but an active RF connection is not currently detected.
NO DMX	Wireless connection is present but valid DMX is not being received.
DMX	Valid wireless DMX is being received.
HOLD LAST	DMX was lost after valid data was received; the last look is held.

5. Settings

From DMX home: press Middle.
From Manual home: finish editing with Middle, browse to SETTINGS, then press Middle. From the first parameter, one Top press wraps directly to SETTINGS.

The menu contains **DMX ADDRESS**, **OUTPUT MODE**, **OPERATION MODE**, and **EXIT**. Use Top/Bottom to move and Middle to select. EXIT returns to the home screen.

5.1 DMX start address

1. Select **DMX ADDRESS**.

2. Use **Top to decrease** and **Bottom to increase**. Hold to repeat; scrolling accelerates after approximately 3 seconds.

3. Press Middle to save and return to Settings.

Output Mode	DMX footprint	Start address range
M1 - Cine-Five	6 channels	1-507
M2 - Dual Hybrid	4 channels	1-509

The address remains saved after power loss. It has no effect on local output while Manual is selected.

5.2 Output Mode

1. Select **OUTPUT MODE**. Use Top or Bottom to choose Cine-Five or Dual Hybrid.

2. Press Middle to save and return to Settings.

In DMX: saving Output Mode clears the previous DMX values. Outputs remain off until new valid DMX data arrives for the selected configuration.

In Manual: the selected output mode recalls its own manual look. Cine-Five and Dual Hybrid settings are stored separately. A mode that has never been adjusted starts with intensity at zero.

Match Output Mode to the connected LED wiring before raising intensity. See the connector mapping in Section 9.

5.3 Operation Mode

1. Select **OPERATION MODE**.

2. Use Top or Bottom to choose **DMX** or **MANUAL**.

3. Press Middle to save the choice and return directly to its home screen.

DMX: output follows received DMX and holds the last received look on signal loss. Returning from Manual uses the current received DMX values, or the retained DMX look if reception has stopped. If no DMX values are available, output is off.

Manual: output follows local parameter values. Incoming DMX does not take over. Switching back to DMX must be done explicitly in this menu.

6. Manual Operation

Manual mode lets you set a complete look without a console or CRMX transmitter. The manual parameters use the same color mixing and output smoothing as DMX control.

6.1 Select and adjust a parameter

1. From manual home, use Top/Bottom to highlight a parameter.

2. Press Middle to open its large value display.

3. Press **Top (+)** to increase or **Bottom (-)** to decrease. Hold for continuous adjustment; after 3 seconds adjustment speeds up.

4. Press Middle to finish and return to the parameter list. The look stays on while you browse or open Settings.

Changes affect the light immediately. Saving is only for remembering the look after power cycling.

6.2 Available parameters

Cine-Five	Range / meaning
Intensity	0-100% master level for white and RGB.
CCT	2600K-6000K; applies to the tunable-white section.
White/RGB Mix	0% = white; 100% = RGB; intermediate values blend both.
Red / Green / Blue	0-100% per color, subject to Intensity and White/RGB Mix.

Dual Hybrid	Range / meaning
A Intensity / B Intensity	0-100%, independently for each load.
A CCT / B CCT	2600K-6000K, independently for each load.

White example: set White/RGB Mix to 0%, choose a CCT, then raise Intensity.
Red example: set White/RGB Mix to 100%, Red to 100%, Green and Blue to 0%, then raise Intensity.

6.3 Saving and power cycling

Edits save automatically when you release Top or Bottom, and when you press Middle to finish. The header shows **EDITING** for unsaved changes and **SAVED** once stored. Wait for SAVED before disconnecting power; a change still being held may not yet be saved.

On restart, the dimmer recalls Operation Mode, Output Mode, and the saved manual look. If Manual was selected, the light returns to that saved look. DMX hold-last values are not stored across power cycles.

If **SAVE ERR** appears, the look has not been stored successfully. Press Middle to retry saving; if the error remains, contact support.

7. Mode 1 - Cine-Five

Cine-Five provides a 6-channel DMX personality for RGB + tunable-white fixtures. The display identifies it as **M1 CINE5**. These same parameters are available on manual home.

DMX offset	Function	Range
+0	Intensity	0-100%
+1	CCT	2600K-6000K
+2	White / RGB Mix	0 = white; 255 = RGB
+3	Red	0-100%
+4	Green	0-100%
+5	Blue	0-100%

Intensity is the master dimmer for white and RGB. White/RGB Mix crossfades between the two sections. CCT blends Tungsten and Daylight; Red, Green, and Blue set the color balance of the RGB section. CCT values are nominal; actual color depends on the connected LEDs.

7.1 DMX example - start address 101

Address	101	102	103	104	105	106
Function	Intensity	CCT	White/RGB Mix	Red	Green	Blue

8. Mode 2 - Dual Hybrid

Dual Hybrid independently controls two tunable-white LED loads. The display identifies it as **M2 DUAL HYB**. Each load has its own intensity and CCT in both DMX and Manual operation.

DMX offset	Function	Range
+0	Hybrid A Intensity	0-100%
+1	Hybrid A CCT	2600K-6000K
+2	Hybrid B Intensity	0-100%
+3	Hybrid B CCT	2600K-6000K

8.1 DMX example - start address 201

Address	201	202	203	204
Function	A Intensity	A CCT	B Intensity	B CCT

9. LED Output Connector

The Pocket Dimmer uses a **6-pin Phoenix-style connector** with a common-positive LED configuration. The physical connector mapping depends on Output Mode and is the same for DMX and Manual control.

Pin	M1 - Cine-Five	M2 - Dual Hybrid
1	+24V Common	+24V Common
2	Tungsten	Hybrid A Tungsten
3	Green	Hybrid A Daylight
4	Red	Hybrid B Tungsten
5	Blue	Hybrid B Daylight
6	Daylight	Unused / off

Verify connector pin numbering and wiring before applying power. Pin 6 is unused in Dual Hybrid. Select the correct Output Mode before operating the connected loads.

10. CRMX Linking and Unlinking

1. Power on the Pocket Dimmer and the CRMX transmitter.

2. For wireless operation, select **Operation Mode: DMX**.

3. Use the transmitter's standard linking procedure to link the receiver.

4. Confirm the DMX home screen shows the appropriate connection status. Valid received control is indicated by **DMX**.

Unlinking

While on the **DMX home screen**, hold Bottom for 3 seconds to send the unlink command. The screen displays the hold instruction and then **UNLINK COMMAND SENT**.

Bottom does not unlink the receiver in Manual or while navigating menus. To unlink while using Manual, switch Operation Mode to DMX first.

11. DMX Signal Loss

In DMX operation, the dimmer uses **Hold Last**: after valid DMX has been received, a signal interruption leaves the last received look on the outputs. The display shows the loss condition and HOLD LAST. Normal control resumes automatically when valid DMX returns.

Hold Last applies while the unit remains powered. It does not restore a DMX look after power cycling. If no valid DMX has been received after startup, DMX output remains off.

In Manual, loss or return of DMX does not change the local look. The saved manual values remain in control until you choose DMX.

12. Power

The RGB Pocket Dimmer is designed for **24V DC LED systems**. Use a properly regulated 24V DC supply sized for the connected LED load. Confirm the LED product is intended for 24V operation and verify output wiring before applying power.

Connect or disconnect LED loads with the system powered off. When powered back on in Manual, the dimmer restores its saved look, including intensity.

13. Support

For product support, software updates, and documentation, visit the Five Twelve Engineering support page:

www.fivetwelveengineering.com/support

This manual describes Software Version 3 with local manual operation.