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RED Compact EVF Operation Guide



Product Management

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This article outlines the processes for using the RED Compact EVF, DSMC2 Adapter A, RED EVF Mount and RED EVF Extension Arm.

For FAQ's see [DSMC3 EVF - FAQs](#).

RED Compact EVF

The RED Compact EVF is a single cable monitoring solution for DSMC3 camera systems. It features a 1080p micro-OLED display and user-assignable buttons to quickly access tools such as peaking and magnify, or to control the camera's settings such as ISO, FPS, and White Balance.

The RED Compact EVF also features an adjustable diopter, a quick-connect mount for use with the RED EVF Mount or a 1/4-20 mount plate for use with third-party options, and an updated eyecup mounting system that allows for a more secure fit while maintaining easy eyecup replacement (refer to [RED EVF Mount](#)).

NOTE:

- *Camera control is only supported on DSMC3 systems.*
- *The DSMC3 Adapter A is required to use the RED Compact EVF on DSMC3 cameras.*
- *DC Power is provided by the camera through the DSMC3 Adapter A (refer to [DSMC3 Adapter A](#)).*

WARNING: *DO NOT point the RED Compact EVF eyepiece at direct sunlight. Continued exposure to direct sunlight may damage the EVF. Point the eyepiece away from sunlight when not*

in use. Damage to the RED Compact EVF caused by continued exposure to direct sunlight is not covered under warranty.

DIMENSIONS	2.43" x 2.46 x 4.8"
WEIGHT	0.8lbs
MATERIAL	Aluminum
CAMERA MOUNTING	Via integrated attachment wheel and RED EVF Mount or 1/4-20 mount points on included Mount Plate.
RESOLUTION	1920 (width) x 1080 (height)
DISPLAY TYPE	OLED
BIT DEPTH (COLOR)	8-bit
CONTRAST RATIO	>10,000:1
DISPLAY RATE	60fps
OPTICS	Fully coated optics with > 32° field of view, infinity focus and eye cup that accommodates standard 1.6" to 1.8" diameter eye cushions
DIOPTER RANGE	– 2.5 to + 2.5 diopter correction range
BUTTONS	Two buttons for camera control or user defined buttons
POWER CONSUMPTION	2.5W (max)
OPERATING TEMPERATURE	32°F to 104°F (0°C to 40°C)
STORAGE TEMPERATURE	–4°F to 122°F (–20°C to 50°C)
OPERATING HUMIDITY	0% to 85%, non-condensing
STORAGE HUMIDITY	0% to 85%, non-condensing



EVF Features

#Feature	Description
1EVF Connector	16-pin digital video and power interconnection between the EVF and DSMC3 Adapter A; compatible with standard RED LCD/EVF cables.
2Button 1	Camera Control / User Assignable Button
3Button 2	Camera Control / User Assignable Button
4Mounting Point	Mounting point for the RED EVF Mounting Plate using the Attachment Wheel
5Modular Optical Block	Fully coated with a > 32° field of view

USING THE EVF

The RED Compact EVF is configured to use the 'FN Toggle' feature to control the camera. This allows the operator to change the camera's FPS, Iris (with compatible lens), Shutter Angle, ISO/ Gain, White Balance, and ND (with RED RF to PL Adapter w/ Electronic ND) by using the buttons on the EVF.

The camera operator must install the EVF with the DSMC3 Adapter A attached to the camera and the EVF cable connected to the adapter and the EVF.

The operator can then select the EVF settings in the camera by using the EVF menu: **Menu > Monitoring > Top EVF**.

NOTE: *When the DSMC3 Adapter A and the EVF are connected for the first time, the EVF uses the Standard overlay.*

EVF Brightness

The RED Compact EVF has four brightness levels for different shooting environments. The table below gives some examples of these environments.

Brightness Level	Description of use case
Studio	For use in dimly lit environments
Standard	For use in most situations with mixed lighting
Bright	For use in most outdoor environments
Maximum	Used only for extremely bright environments.

EVF BUTTONS

Press each EVF button to enable a user-assigned camera function.

- The default setting for EVF button 1 is Top EVF Magnify Toggle.
- The default setting for EVF button 2 is False Color Exposure Toggle.
- The default setting for EVF buttons 1+2 is FN Toggle.

Refer to [User Settings Menu](#) for more information about user-assignable options.

USING FN TOGGLE ON RED COMPACT EVF

1. Press EVF buttons 1+2 to enable FN Toggle. When using FN Toggle, for the time in which the Toggle is Active (5 seconds), Button 1 and Button 2 will temporarily act as FN UP and FN DOWN.



2. When enabled, the FN Toggle feature highlights the top EVF overlay values with a gray rectangle.



3. Press EVF buttons 1 or 2 to increase or decrease the value.





4. Press EVF buttons 1+2 to move to the next value.



NOTE: Function control will time out if there are no button presses for 5 seconds.

CHANGING THE BUTTON FUNCTIONS

To change the function of the buttons, navigate to:

Menu > User Settings > EVF Buttons

By default, the buttons are set to the following:

Button	Function
1	Top Port Magnify Toggle
2	False Color Exposure Toggle
1+2	FN Toggle

... > Top EVF Buttons

Button 1	Top Port Magnify... ▼
Button 2	False Color Expo... ▼
Button 1 + 2	FN Toggle ▼

CLEANING THE EVF SCREEN

NOTE: *This section describes only how to clean the OLED screen on the RED Compact EVF and DSMC2 RED EVF, and not how to clean the entire device.*

This section explains how to clean the screen on the RED Compact EVF and DSMC2 RED EVF. The screen is accessed by removing the EVF Modular Optical Block.

Use an ionized rubber air bulb to clean the screen on the EVF. If there are still particles on the screen after using an air bulb, gently wipe the screen with a rolled-up, particulate-free, non-abrasive optical-grade wipe.

NOTE: *Cleaning the screen without first removing solid particles increases the risk of scratching the screen. As with many screens, any type of physical contact with the screen may scratch the*

surface.

PROHIBITED EVF SCREEN CLEANERS

DO NOT use any of the items listed below to clean the screen on the EVF. These products have not been tested on RED products and may cause damage or streaking.

- Compressed air
- Gas dusters
- Solvents
- Rubbing alcohol
- Isopropyl alcohol
- Windex® and other household cleaners
- Third-party cleaning kits
- Pre-packaged lens cleaner containing any additives, such as detergent, anti-static compounds, or fragrance
- RED Microfiber Bag

WARNING: *Damage to any screens or other components of the camera system caused by using prohibited cleaners is not covered under warranty.*

DSMC3 Adapter A



The DSMC3 Adapter A attaches to the top of KOMODO-X, V-RAPTOR, or V-RAPTOR XL, and provides a 16-pin output that provides power, video, and control to the RED Compact EVF and DSMC2 RED EVF (OLED).

The DSMC3 Adapter A includes a Run-Stop trigger pass-through that the operator can use for the V-RAPTOR, for the Compact Top Handles, and for Third-Party accessories.

NOTE:

- *The DSMC3 Adapter A is not compatible with the DSMC3 RED Touch 7.0" LCD or KOMODO Outrigger Handle.*
- *The DSMC3 Adapter A can only be used with and mounted on KOMODO-X, V-RAPTOR and V-RAPTOR XL model cameras.*

DIMENSIONS	5.2" x 1.42" x 1.30"
WEIGHT	0.25 lbs.
MATERIAL	Aluminum
EVF CONNECTION	16-Pin 1B LEMO socket
CAMERA MOUNTING	2x 1/4-20 captive mounting screws
ACCESSORY MOUNTING	2x 1/4-20 mounting points with trigger pass-through
OPERATING TEMPERATURE	32°F to 104°F (0°C to 40°C)
STORAGE TEMPERATURE	–4°F to 122°F (–20°C to 50°C)
OPERATING HUMIDITY	0% to 85%, non-condensing
STORAGE HUMIDITY	0% to 85%, non-condensing



RED EVF Mount

The RED EVF Mount is a lightweight 15 mm LWS rod-based EVF mounting solution. RED designed the mount for use with the **RED Compact EVF** and the DSMC2 RED EVF (OLED), on DSMC3, and

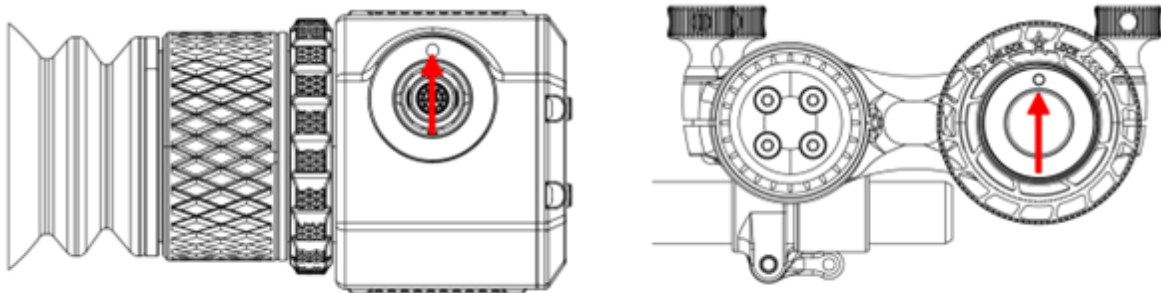
DSMC2 camera systems.

The RED EVF Mount features a multi-axis telescoping design, which allows the operator to easily find the optimal position for every situation. The mount includes a quick-connect screw-on EVF clamp, laser etched distance and angle markers, machined thumb-screws for quick and easy adjustability, and support for the RED EVF Extension Arm (sold separately).

NOTES:

- *The 15 mm bracket is not included, refer to RED 15 mm Top Handle Bracket and V-RAPTOR XL Top 15 mm LWS Rod Support Bracket for DSMC3 mounting options.*
- *The RED Compact EVF and the DSMC3 Adapter A are sold separately.*

DIMENSIONS	4.68" x 5.31" x 2.65" (excluding length of 6" rods)
WEIGHT	0.86 lbs.
MATERIAL	Aluminum
CAMERA MOUNTING	Via 15mm bracket, see V-RAPTOR XL TOP 15MM BRACKET and RED 15MM TOP HANDLE BRACKET
EVF MOUNTING	Via attachment wheel
OPERATING TEMPERATURE	32°F to 104°F (0°C to 40°C)
STORAGE TEMPERATURE	–4°F to 122°F (–20°C to 50°C)
OPERATING HUMIDITY	0% to 85%, non-condensing
STORAGE HUMIDITY	0% to 85%, non-condensing



RED EVF Mount Features

#Feature	Description
1 15mm Rods and Clamp	For moving and positioning the entire EVF mount forwards and back.
2 Main Arm Clamp	For clamping the position of the main arm.

3	Telescoping Arm Clamp	For clamping the position of the telescoping arm.
4	Arm Pivot Clamp	For clamping the position and angle of the entire EVF Arm.
5	EVF Pivot Clamp	For clamping the position and angle of the EVF.
6	EVF Mounting Thread	For attaching and removal of the EVF to the Mount.

To attach the RED Compact EVF or DSMC2 OLED EVF align the locator pin on the RED EVF Mount with the corresponding locator on the EVF and rotate the locking wheel anti-clockwise until tight.

RED EVF Extension Arm

RED designed the RED EVF Extension Arm to seamlessly attach to the RED EVF Mount, and to provide a greater range of adjustability and configuration for the RED Compact EVF and DSMC2 RED EVF (OLED) when the operator is using the camera on tripods or dollies. The Extension Arm provides a range from 10 to 15 inches (25 to 37 cm) when fully extended, and it supports standard eyepiece levelers that use EL-3 style mounting.

NOTE: *The RED Compact EVF, DSMC3 Adapter A and RED EVF Mount sold separately.*

DIMENSIONS	11.6" x 1.4" x 2.5"
WEIGHT	0.76 lbs.
MATERIAL	Aluminium
CAMERA/ EVF MOUNTING	Via attachment wheel
ARM RANGE	10 to 15 inches (25 to 37cm)
OPERATING TEMPERATURE	32°F to 104°F (0°C to 40°C)
STORAGE TEMPERATURE	–4°F to 122°F (–20°C to 50°C)
OPERATING HUMIDITY	0% to 85%, non-condensing
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EVF CABLES

The EVF Cable Right-to-Straight 12(18,32)” is compatible with the DSMC3 Adapter A to support and use the RED Compact EVF, with one 90 degree and one straight connector that provides a high-resolution video feed.

NOTE: *Cable length is measured from end-to-end of cable including connectors. Cables are also compatible for use with DSMC2 LCD / EVF accessories on DSMC2 camera systems.*



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