Configuring KOMODO

RED KOMODO RF Mount

• RF is Canon’s lens mount on Canon EOS R mirrorless cameras.
• 20 mm flange focal depth.
• 54 mm diameter.
• The RF mount accepts native RF Canon lenses and the shallow depth lets you use all kinds of lens mount adapters.
• 12 pogo pins for electronic connections.
• 6K Super35 Sensor (6144 x 3240).
• Global Shutter (all the photosites are exposed simultaneously).
• Sensor size: 27.03 x 14.26 mm.
• Sensor image diagonal: 30.56 Ø.
• 6K to 40 fps.
• Shown actual size, approximately 4” x 4” (10.16 x 10.16 cm).
• Weight: 2.10 lb / 0.95 kg (without Body Cap or CFast Card).

KOMODO with Native RF Mount

Maybe like a *Lonely Planet* style geeky guidebook, but not as amusing as Mark Twain’s *The Innocents Abroad*, and hopefully less strenuous than *Survivor*, here is a quirky travel guide of a RED KOMODO’s journey to Film and Digital Times. The accessories and methods listed here are not comprehensive. In fact, they are the result of things that happened to be shipped, arrived and tried.

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RED KOMODO PL Mount

• PL mount has a 52 mm flange focal depth.
• 54 mm diameter.
• Careful: the native RF mount is not as strong as a native PL mount. RF to PL adapters with support brackets are recommended. Use a lens support and rods for heavy lenses.

Clock to lock: twist a Canon RF lens clockwise to lock.

Clock to lock: Rotate PL Mount clockwise to lock.
Why did RED choose the RF Mount instead of EF Mount, as most previous RED cameras had? The RF mount keeps the camera smaller—by almost an inch. You can still use EF lenses, as well as PL, PV, LPL, Leica M and almost any other lens with a flange focal depth longer than the RF’s 20mm distance. Of course, the RF mount accepts both Super35 and Full Frame / VistaVision lenses.

- To use one of the more than 130 million EF lenses out there, attach a Canon Mount Adapter EF-EOS R to your KOMODO.
- EF Mount has a 44 mm flange focal depth.
- 54 mm diameter, same as RF Mount.
- The EF Mount has 8 pogo pins for lens to camera communication.
- The Canon Mount Adapter EF-EOS R passes lens metadata and power through by connecting 8 pogo pins in the EF Mount to 8 or the 12 pins in the native RF Mount.
- Another excellent choice: Canon’s Drop-In Filter Mount Adaptor EF-EOS R with Variable ND Filter / Clear Filter / Circular Polarizer.
- EF lenses cover Full Frame. They have a red dot and line up with the red dot on the camera’s lens mount.
- EF-S lenses cover APS-C / Super35. They line up with the white square on the camera’s lens mount. EF-S lenses are generally smaller, lighter, faster and cheaper than EF.
- To remember which is which, think of EF-S as in Super35 or smaller.
- Note: there’s also a white dot on KOMODO’s native RF mount. So far, I haven’t seen any APS-C format RF lenses. But they could be called RF-S lenses and they would make sense.
- If you’re satisfied with totally manual mode, then most EF lenses will work fine on KOMODO.
- However, to benefit from electronic and metadata communication from lens to camera, some Canon RF and EF lenses have been tested (so far) to provide aperture control, autofocus and image stabilization. See the KOMODO Operation Guide or list online.

Speaking of User Manuals, the RED KOMODO Operation Guide is thorough, well-written and complete with great photos:

red.com/download/komodo-operation-guide
RED KOMODO

Index Mark for RF Lenses and Adapters

RF Mount Lens Release

Tally LED ON when Recording

Right Internal Mic

Left Internal Mic

RF Mount

CFast 2.0 Card Eject

CFast 2.0 Media Card

CFast Status LED

Camera Beep Speaker

3.5 mm Stereo External Mic IN

3.5 mm Stereo Headphone IN

9-pin Extension Port

12G-SDI OUT

2-pin DC IN 7-17 V DC

Power Status LED

M4 Mounting Thread

Two separate Canon style BP-900 series 7.4V battery slots. Left slot takes priority over right.

Left Battery Release

Right Battery Release

M4 Mounting Thread

Power Status LED

5-pin DC IN

90° Right L ins

M4 Mounting Thread

Charge onboard BP-900 batteries by connecting AC Power Adapter to DC-IN jack.

Wi-Fi Antenna for 2.4 GHz or 5 GHz connection

M4 Mounting Thread
Disregard the RF Mount’s white Index Mark. (With EF Mounts, it’s for EF-S APS-C Lenses)

DC-IN Status LED. Green = External DC power is connected and / or battery is fully charged. Flashing Amber = Camera communicating with battery. Amber = Charging onboard batteries. Red = Error charging batteries.

Camera Left

Image Plane (20mm behind RF lens mount flange)

CFast Status LED: Off = No media mounted. Green = Media mounted, more than 10% remaining. Amber = Recording ending or playback. Amber slow flashing = Formatting media. Red slow flashing = between 5% and 10% media remaining. Red fast flashing = less than 5% media remaining. Red = Recording.

Power Status LED: Off = Camera OFF. Amber = Camera booting up. Green = Camera ON. Amber flashing = 5 -10 mins batt remaining. Red flashing = less than 5 mins batt. remaining. Red = Camera shutting down.

Bottom

4x 1/4-20 Mounting Threads on top

Service Access Cover, Do NOT Remove

LCD Touchscreen Display

Top

Accessory Multipin Connector

MENU

SELECT & Fn

Playback

Red Komodo

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You probably remember this photo by Brad Pitt of Jarred Land, President of RED. This is the minimalist KOMODO mode. Jarred explained back in October 2020, “You hold the KOMODO just like you do when you shoot a Medium Format camera, cradling the camera in a very specific way. The Mamiya RZ67 is my favorite camera of all time. You can see that camera has been referenced into many of the things that we’ve done before, but never as much as the KOMODO. Just the way you hold the KOMODO, even if you do use a handle, has a certain intimacy that I always loved about shooting with Medium Format cameras, and the KOMODO shares that.”

“This is probably why there are a few people working on Hasselblad-like top prism finders and waist level, fold-out focusing hood attachments for the KOMODO. I just love the connection you have holding the camera like that—there’s just something about it that really excites me.”

We’ll get to attachments and accessories shortly. But first, here’s the bare minimum KOMODO.

Attach one or two BP-900 Canon style 7.4V batteries to the back and you’re ready to roll. Minimal KOMODO consumes about 20 to 24 Watts. One REDVOLT BP 6300 mAh battery ran KOMODO for more than 2 hours. Your mileage may vary.

You can hot swap. The left battery runs out first.
RED KOMODO – Minimal Mode

At right and bottom: Canon Mount Adapter EF-EOS R — with Canon EF-S 18-135mm f/3.5-5.6 IS USM APS-C Zoom lens. Covers Super35 and, of course, KOMODO is a Super35 camera. This lens is smaller and lighter than its Full Frame counterparts.

Note, it’s not yet on the official RED compatibility list, below:

**These Canon Lenses fully functional on KOMODO**

<table>
<thead>
<tr>
<th>EF Lenses</th>
<th>RF Lenses</th>
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<tbody>
<tr>
<td>Canon EF 14 mm f/2.8L II USM</td>
<td>Canon EF 35 mm f/1.4L II USM</td>
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<tr>
<td>Canon EF 24 mm f/1.4L II USM</td>
<td>Canon EF 50 mm f/1.2L USM</td>
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<tr>
<td>Canon EF 35 mm f/1.4L II USM</td>
<td>Canon EF 85 mm f/1.2L USM</td>
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<tr>
<td>Canon EF 50 mm f/1.2L USM</td>
<td>Canon EF-S 17-55 f/2.8 IS USM</td>
</tr>
<tr>
<td>Canon EF 85 mm f/1.2L II USM</td>
<td>Canon EF 24-70 f/2.8L II USM</td>
</tr>
<tr>
<td>Canon EF 28-70mm f/2.8 L USM</td>
<td>Canon EF 16-35 f/2.8L III USM</td>
</tr>
<tr>
<td>Canon RF 24-70mm F2.8 L IS USM</td>
<td>Canon EF 24-105 f/4L IS II USM</td>
</tr>
<tr>
<td>Canon RF 24-240mm F4-6.3 IS</td>
<td>Canon EF 70-200 mm f/2.8L IS III USM</td>
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<tr>
<td>Canon RF 50mm F1.2 L USM</td>
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<tr>
<td>Canon RF 14 mm f/2.8L IS USM</td>
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<td>Canon RF 70-200mm F2.8 L IS USM</td>
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<tr>
<td>Canon RF 85mm F1.2 L USM DS</td>
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<td>Canon EF-S 17-55 f/2.8 IS USM</td>
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<td>Canon EF 28-70mm f/2.8 L USM</td>
<td></td>
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<tr>
<td>Canon RF 24-240mm F4-6.3 IS</td>
<td></td>
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<tr>
<td>Canon RF 50mm F1.2 L USM</td>
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</tbody>
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Top view of KOMODO with Wooden Camera PL to RF Mount Pro (shimmable) Adapter. Accepts Full Frame and, of course, Super35 PL lenses.
SmallHD’s Focus Pro RED Kit is an 800 nit, 5” LCD Touchscreen Monitor with camera control for KOMODO (and DSMC2 cameras). Connect the Focus Pro’s 5-pin USB receptacle to the KOMODO’s 9-pin Extension receptacle. Connect camera to monitor video via BNC cable. An Anton/Bauer Sony L-style onboard battery powers the monitor. You can also power it from an external battery.

A Focus Pro Monitor connected to KOMODO can control recording formats, resolution, frame rates, shutter speed, aperture of compatible lenses, autofocus on compatible lenses, output tone map, highlight roll-off, 3D LUTs, Start/Stop, and more.
SmallHD Focus Pro KOMODO Control

Connect 9-pin KOMODO to 5-pin Monitor control cable.

Exposure Index adjustment on touchscreen LCD display.

Set lens aperture for enabled lenses.

SmallHD Focus Pro home page with red RED run “button.”

Shutter adjustment.

Adjust white balance.

Project settings sub-menus.

Set project resolution.
Anton/Bauer’s Battery Bracket for RED KOMODO comes in Gold-Mount or V-Mount. It attaches directly to the camera’s empty rear two BP Battery slots. The Micro Bracket connects to KOMODO’s 2-pin EXT power jack with a short pigtail cable and LEMO plug. There are two D-Tap accessory power outlets, one on each side.

Anton/Bauer’s Titon Micro 45 fits nicely on KOMODO. It delivers 14.4V DC, 47 Wh, 8 Amps.

In the photos at right and below, the SmallHD Focus Pro Monitor is being powered from the D-Tap of the Titon Micro 45 battery.
Wooden Camera Battery Slide Pro for KOMODO

Wooden Camera’s Battery Slide Pro for KOMODO is another alternative for Gold-Mount or V-Mount 14.4V battery power. It adds extra distance in back, swivels away and slides up/down for access to the camera’s rear. Battery Slide Pro attaches to KOMODO’s camera-left BP-900 battery slot and plugs in with a right angle LEMO style connector.

Three D-Taps on the plate provide power for accessories.

DC Input on the camera-right side can be used for power when hot-swapping. Another hot-swap option would be to use a Gold or V-Mount battery together with a BP-900 series battery. To do this, add the Wooden Camera Battery Slide Extension for Canon BP-955 Hot Swap (RED KOMODO). It moves the battery plate further back from the camera body to provide room for a BP-900 series battery.

Wooden Camera B-Box (RED KOMODO) attaches to the camera-right BP-900 battery slot as a breakout for the camera’s EXT connector.

Wooden Camera Battery Slide Pro attaches to KOMODO’s camera right BP-900 slot. Shown here with Anton/Bauer Titon 45 Gold Mount battery.
Satisfy your inner original Aaton spirit with a much-flattered, often imitated, carved wood right-side handgrip from Aaton, Vocas, Tilta, Element Gear, ErgoCine, Smallrig, Wooden Camera and others. These handgrips are all mechanical at the moment. The trick is in the attachment.

Here is the KOMODO festooned with Wooden Camera accessories: right-side Camera Safety NATO Arm (RED KOMODO), NATO Rosette, Right Handgrip—as well as Wooden Camera Battery Slide Pro for KOMODO, Anton/Bauer Titon 45 Battery, SmallHD Focus Pro Monitor, Wooden Camera Top Mount with ARCA Swiss dovetail clamp and Monitor Hinge.

Anton/Bauer Titon 45 Gold Mount battery

Wooden Camera Battery Slide Pro

Monitor folds almost flat on top

The Wooden Camera Battery Slide Pro for KOMODO normally slides into the camera left battery slot. But it also fits in the camera right slot if you like.
Bright Tangerine's LeftField System for KOMODO is designed so you can switch quickly between tripod, gimbal, car mount, remote head and handheld modes. Threaded NATO and QD mounting points are located on each side of the LeftField System. Every thread is stainless steel helicoil for added strength. These fittings prevent stripping or binding. QD (Quick-Detach) sockets are there to attach camera straps. A new addition to the patented Open•UP Baseplate system is a DJI dovetail release as a second top stage. You can seamlessly go from the 15mm baseplate to handheld to a DJI RS gimbal in seconds without having to reconfigure the rig.

There are many choices of lens adapters for KOMODO’s native RF mount. Instead of restricting the cage to a specific adapter, Bright Tangerine's LeftField offers a range of adapter supports, including Vocas, Kippertie, Metabones and Canon's 0.71x expander. More supports will be made available as demand grows. The camera right cheeseplate accessory attaches with a NATO clamp and makes mounting wireless transmitters and lens controllers a breeze.

The LeftField Komodo System is available now as a series of kits. You can also choose individual parts. Rest assured you won't be left out in left field.
The Vocas PL to RF mount kit provides extra support for PL lenses. It's still a good idea to use lens rods for heavier lenses. The complete assembly should include the Vocas Canon R mount to PL adapter kit (0900-0018), the Vocas PL adapter support for KOMODO (0900-0030) and the Vocas side cage kit for RED KOMODO (0600-0100). The side cage brackets are mounted to the left and right side of the camera, using the total of four M4 attachment points on the camera.

RED Accessories for KOMODO

RED KOMODO Expander Module attaches to the bottom of the camera. It plugs into KOMODO’s 9-pin EXT port. The breakout connections provide Genlock (BNC), GPI (BNC), Timecode IN (BNC) and CTRL (4-pin).

RED KOMODO Wing Grip attaches to the camera right side’s M4 threads.

At right: The KOMODO Link Adaptor adds a USB-C port for a hard-wire connection. Attach the KOMODO Link Adaptor to an iPhone or Android device for a live preview with little latency via RED CONTROL.

Attach an off-the-shelf USB-C to Ethernet adapter for remote camera control and FTPS (File Transfer Protocol Secure). In addition to camera control and menu access over IP, you can control multiple networked cameras and download media files.

The free KOMODO RED Control app provides remote and wired access from an iOS or Android device. RED CONTROL runs via Wi-Fi, USB-C or Ethernet.

You can live stream from the camera, access the entire menu, and monitor video.