the new cvolution camin 3M

sometimes size does matter
105 x 64 x 24 (mm) / 4 1/8 x 2 1/2 x 1 (inch)

contact your reseller or visit
www.cmotion.eu
for more information
The new cvolution camin 3M
sometimes size does matter

Size

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>height</td>
<td>105mm</td>
<td>(4 1/8 inches)</td>
</tr>
<tr>
<td>width</td>
<td>64mm</td>
<td>(2 1/2 inches)</td>
</tr>
<tr>
<td>depth</td>
<td>24mm</td>
<td>(1 inch)</td>
</tr>
<tr>
<td>weight</td>
<td>245g</td>
<td>(8 3/4 ounces)</td>
</tr>
</tbody>
</table>

Connectors

- RS (fi 3p)*
- Analog (Hi 12p)
- CBUS (le 8p)*
- EXT (fi 16p)*
- LBUS (le 4p)*
- 3x motor ports (le 7p)*

*positioned at 45° for optimized use with right angle connectors

Buttons

- on/off switch
- channel selection (rotary switch)
- calibration button

Mounting options

- cmotion rosette
- 1/4" screw

Wireless

- ARRI 2.4Ghz White RF (8 channels)
- cmotion 2.4Ghz black RF (9 channels)

The new cvolution camin 3M is a compact, lightweight and low profile interface for focus, iris and zoom control. Motors can be controlled wirelessly or by cable using modular cvolution hand units. Popular broadcast controllers can also be used through a new analog interface. The discrete CAL button triggers auto motor calibration while the EXT connector provides an interface for wireless run/stop for a wide range of cameras. The unique LBUS connector allows for up to 3 daisy-chained cforce motors to be used independently or synchronized for a totally flexible 6 motor set up.
FAQs

- **How many motors can be driven by the camin 3M?**
The camin 3M can drive up to 6 motors in total. 3 regular motors can be connected to the motor ports and 3 cforce motors can be connected to the LBUS connector using daisy-chain technology.

- **Which motors can be connected to the camin 3M?**
The camin 3M can drive the same motors as previous cvolution camins 2M, 4M and 8M: ARRI, Hedén, etc.

- **Which RF module does the camin 3M have?**
camin 3M is available with either cmotion’s black RF or ARRI’s white RF (compatible with Alexa Plus).

- **Is the camin 3M compatible with my existing cvolution hand unit?**
Yes. As long as the same RF module is being used (Black / White)

- **Can I use broadcast controllers for focus and zoom control with the camin 3M?**
Yes. Canon or Fujinon broadcast demands can be used for focus and zoom control when connected to the camin 3M using an optional split cable.

**Note:** Iris can be controlled using cvolution knob solo or popular RCPs through a 12pin Hirose interface. The system is also compatible with numerous fiber systems.

- **Why does the camin 3M have such a small profile?**
Whether shooting hand-held or using a stabilized rig or gimbal system, the weight and size of any accessory is critical. In these situations the size, weight and mounting options of the camin 3M have minimal impact on the overall configuration without compromising performance.

- **Can I connect a range finder to the camin 3M?**
Yes. You can use cmotion’s cfinder II, ARRI’s UDM, Cine Tape and Sniper. The distance will be displayed on the cvolution hand unit.

- **Can I connect a cworld to the camin 3M?**
Yes. cworld can be connected to the camin 3M’s CBUS connector so you can create, edit, display and share live lens data on a variety of smart devices. When used with a range finder, auto focus is also possible (cworld apps required).

- **Will cvolution camin 2M, 4M and 8M still be available?**
Despite its size, the camin 3M can control up to 6 motors and still offers new features not available in previous versions of the camin. Therefore, it will replace the cvolution camin 2M and 4M. For advanced 3D operation where 7-11 motors are required, the camin 8M and 8M/TC will still be available.

- **How do you change the camin 3M settings?**
All of the camin settings can be accessed through the wireless cvolution hand unit or any smart device when used with cworld. This has proven invaluable when settings need to be changed while shooting on a crane or stabilizing system.

- **How can I update my camin 3M with new firmware?**
You can update the firmware on all cvolution products using cworld (recommended), a cdisplay II, or through any PC via USB and serial adapter.
## the new camin 3M set configurations

### one motor

**cvolution set c1 basic**
including: camin 3M (ARRI white RF)*, cvolution main-unit white RF with external antenna, cvolution knob-basic, bridge adapter, rod connector, 2x battery, battery charger, cstrap, CLM-4 motor set with right angle connector cable, D-tap power cable

€ 10.318

**cvolution set c1 advanced with cworld package**
including: camin 3M (ARRI white RF)*, cvolution main-unit white RF with external antenna, cvolution knob-advanced, bridge adapter, cworld cvolution set (cworld, rod connector, range finder app and clients app), set cfast phone connector, cfaster, cfast-vlock, 3x battery, battery charger, cstrap, case cvolution small, CLM-4 motor set with right angle connector cable, cmotion motor bracket extension, cable CCB-1, D-tap power cable, spare antenna, 6x plain marker rings, 3x pre engraved imperial and 3x pre engraved metric marker rings, cmotion 4GB USB flash drive

€ 14.060

### two motors

**cvolution set c2 basic**
including: camin 3M (ARRI white RF)*, cvolution main-unit white RF with external antenna, cvolution knob-basic, cvolution slider, rod connector, 3x battery, battery charger, cstrap, 2x CLM-4 motor set with right angle connector cable, D-tap power cable, update cable with adapter

€ 13.529

**cvolution set c2 advanced with cworld package**
including: camin 3M (ARRI white RF)*, cvolution main-unit white RF with external antenna, cvolution knob-advanced, cvolution slider, cworld cvolution set (cworld, rod connector, range finder app and clients app), set cfast phone connector, cfaster, cfast-vlock, 3x battery, battery charger, cstrap, case cvolution small, 2x CLM-4 motor set with right angle connector cable, cmotion motor bracket extension, cable CCB-1, cable CCB-2, cable CCB-8, D-tap power cable, spare antenna, 6x plain marker rings, 3x pre engraved imperial and 3x pre engraved metric marker rings, cmotion 4GB USB flash drive

€ 17.380

### three motors

**cvolution set c3 basic**
including: camin 3M (ARRI white RF)*, cvolution main-unit white RF with external antenna, cvolution knob-basic, cvolution slider, cvolution zoom-unit, rod connector, 3x battery, battery charger, cstrap, 3x CLM-4 motor set with right angle connector cable, D-tap power cable, update cable with adapter

€ 17.609

**cvolution set c3 advanced with cworld package**
including: camin 3M (ARRI white RF)*, cvolution main-unit white RF with external antenna, cvolution knob-advanced, cvolution slider, cvolution zoom-unit, cvolution handle, cworld cvolution set (cworld, rod connector, range finder app and clients app), set cfast phone connector, cfaster, cfast-vlock, cfast-czoom, 3x battery, battery charger, cstrap, case cvolution small, 3x CLM-4 motor set with right angle connector cable, cmotion motor bracket extension, cable CCB-1, cable CCB-2, cable CCB-8, D-tap power cable, spare antenna, 6x plain marker rings, 3x pre engraved imperial and 3x pre engraved metric marker rings, cmotion 4GB USB flash drive

€ 22.220

* cvolution is also available with cmotion`s black RF
** additional motor cables are also available in lengths starting from 0.3 meters
Product: cvolution camin 3M

General description:

The new cvolution camin 3M is a compact, lightweight and low profile interface for focus, iris and zoom control. Motors can be controlled wirelessly or by cable using modular cvolution hand units. Popular broadcast controllers can also be used through a new analog interface. The discrete CAL button triggers auto motor calibration while the EXT connector provides an interface for wireless run/stop for a wide range of cameras. The unique LBUS connector allows for up to 3 daisy-chained cforce motors to be used independently or synchronized for a totally flexible 6 motor set up.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Weight total</td>
<td>245g (approx 8 3/4 ounces)</td>
</tr>
<tr>
<td>Height</td>
<td>105mm (4 1/8 inches)</td>
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<tr>
<td>Width</td>
<td>64mm (2 1/2 inches)</td>
</tr>
<tr>
<td>Depth</td>
<td>24mm (1 inch)</td>
</tr>
<tr>
<td>Power supply</td>
<td>from 9V to 35V</td>
</tr>
<tr>
<td>Wireless frequency</td>
<td>2.4 Ghz</td>
</tr>
<tr>
<td>Wireless range</td>
<td>up to 30m (98feet) indoor up to 200m (660 feet) outdoor</td>
</tr>
<tr>
<td>Wireless channels</td>
<td>8 channels (white radio) 9 channels (black radio)</td>
</tr>
<tr>
<td>Environmental requirements</td>
<td>-20° to 50° C (-4° to 122° F)</td>
</tr>
<tr>
<td>Transmission delay</td>
<td>&lt;10 ms</td>
</tr>
<tr>
<td>Max motor control</td>
<td>3x (7p Lemo) (plus aditional 3 cforce motors via LBUS connector)</td>
</tr>
<tr>
<td>Selectable axis control</td>
<td>(for 3D and panoramic) Yes</td>
</tr>
<tr>
<td>Analog interface</td>
<td>Yes</td>
</tr>
<tr>
<td>Independent wireless control units</td>
<td>up to 4 (black RF) / up to 3 (white RF)</td>
</tr>
<tr>
<td>Compatible motors</td>
<td>most popular digital motors on market including ARRI, Hedén, etc. (please contact us for specific information)</td>
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<tr>
<td>Automatic motor recognition</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic motor calibration</td>
<td>Yes</td>
</tr>
<tr>
<td>Time code function</td>
<td>No</td>
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<td>Connectors</td>
<td>1x RS (3p Lemo*) 1x Analog (12p Hirose) 1x CBUS (8p Lemo*) 1x EXT (16p Fischer*) 1x LBUS (4p Lemo*) 3x motor connectors (7p Lemo*)</td>
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<tr>
<td>Software update</td>
<td>via cworld, cdisplay II or PC</td>
</tr>
<tr>
<td>Run/stop function</td>
<td>Aaton, ARRI, Panavision, Red, Sony, Canon, Blackmagic, video cameras (via Hi12p)</td>
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<td>Mounting options</td>
<td>cmotion rosette 1/4`` screw</td>
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<tr>
<td>Related documents</td>
<td>cvolution user guide, cable guide, fastening tools, cdisplay II, cfinger II, cworld</td>
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<tr>
<td>Compatible accessories</td>
<td>cworld, fastening tools, cdisplay II, cfinger II, range finders</td>
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