



broadcast camin

bridging the gap between broadcast and film equipment

## The new broadcast camin the solution for multi camera broadcasting events



### Size

height	105mm	4.13 inch
width	64mm	2.51 inch
depth	24mm	0.94 inch
weight	245g	8.64 ounce

### Connectors

RS (fi 3p)\*  
 Analog (Hi 12p)  
 CBUS (le 8p)\*  
 EXT (fi 16p)\*  
 LBUS (le 4p)\*  
 3x motor ports (standard: le 7p, optional: fi 12p)\*  
 \*positioned at 45° for optimized use with right angle connectors

### Buttons

on/off switch  
 potentiometer for iris control  
 lens button to set iris limit  
 channel selection (rotary switch)  
 calibration button

### Mounting options

cmotion rosette  
 1/4" screw

The evolution camin 3M is a camera interface and control unit for 3 motors. It offers wireless and cabled control through the modular evolution hand unit. Camin 3M offers an analog interface for broadcast controllers to control cine style lenses in a broadcast workflow. The discrete cal button allows for a simple motor calibration while the EXT connector provides an interface for wireless run/stop control over a wide range of cameras.

### Which functions does the broadcast camin offer?

- control cine style lenses in broadcast workflow
- focus and zoom control through broadcast demands (Canon or Fujinon)
- VTR/RET function through broadcast demands (Canon/Fujinon)
- Iris control through camera's Hirose 12 pin connector
- compatible with cworld and range finder for update and setting functions, live lens information and distance read out

### How to set up?

1. connect the broadcast demands for focus and zoom to the broadcast camin's analog HI 12p using the CEN-1 (for Canon 20p) or CEN-2 (for Fujinon 12p) cable.
2. connect either the motors to the three motor ports or daisy chain three cforce motors to the LBUS connector
3. connect the camera's 12 pin connector to the camin's 16p connector, using the RVI-8 cable for Iris control, VTR and RET function
4. connect the RS connector to the power source (cmotion offers either power supply cable, Anton Bauer or XLR)
5. turn on the camin and attach the motors to the lens
6. press the CAL button for automatic calibration
7. once the motors are calibrated, set the Iris limit for Iris control through broadcast demand  
 press and hold the Iris set button, while turning the motor via the potentiometer from T2.8 to T16  
 once you release the Iris set button, the control will be automatically given to the Iris control unit  
 press the Iris set button again, to get back the Iris control





## FAQ

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### What are the differences between a broadcast camin and an ENG-adapter?

- ENG adapters create a discreet, no fuss solution for either Canon or Fujinon controllers using up to 3 cforce motors. The iris can be controlled using a knob solo connected either directly to the ENG adapter with a CBUS cable or up to 2 kilometers away using popular fiber solutions. The new broadcast camin has an analog connector making it compatible with either canon or Fujinon controllers with the necessary split cable and although the daisy chain cforce motors provide a sleek solution, the broadcast camin can also be used with popular motors such as ARRI and Hedén. The potentiometer makes it possible to control the iris or set limits to activate software for remote iris control. The integrated RS connector allows the broadcast camin to be powered directly instated of trough the motors, and the EXT connector provides an interface to broadcast camera and remote control panels using a 12pin Hirose.

### Which motors can I use with a broadcast camin?

You can either connect 3 cforce motors to the LBUS connector, or 3 regular motors to the motor ports (ARRI, Hedén, etc.)

### How can I control the Iris?

You can control the Iris using the integrated potentiometer, a knob solo or an RCP (PCB protocol, RS 323 protocol) through the camera or additional accessories with a 12pin Hirose connector.

### Which is the best solution for me?

Each solution has its advantages depending on your configuration. If you are shooting with an Alexa Studio you simply need the ENG-adapter for your broadcast controllers and a cable. If you do not have a remote control panel for iris, then an ENG adapter with a knob solo would provide a simple and effective solution. If you are controlling the iris through an RCP and your camera or one of its accessories has a 12pin connector, you are best suited to work with the new broadcast camin. The broadcast camin is also the best solution if you use both Canon and Fujinon controllers and you are looking to use existing ARRI or Hedén motors.

### Can I use the broadcast camin as a regular camin 3M?

Although the new cvolution camin 3M and the broadcast camin are almost identical, the wireless card for the camin 3M has been replaced by the potentiometer in the broadcast version.

### Can I use the camin 3M as a broadcast camin?

Although the camin 3M does offer the same connector for broadcast controllers and motors, there is no potentiometer to set the iris. However, this can be completed using a cvolution main unit or knob solo.



General description:



The broadcast camin is a new intelligent interface designed to control focus, iris and zoom on any cine style lens in any broadcast workflow. The analog connector is compatible with both Canon and Fujinon broadcast controllers, while the 3 regular motor ports allow the use of digital motors from ARRI and Hedén.

cmotion's popular daisy-chain cforce motors can also be used independently or synchronized for a full 6 motor broadcast solution – all automatically calibrated at the touch of a button. The potentiometer provides iris adjustment, however most common remote control panels such as Sony RCP and DTS, plus some broadcast cameras, can gain full iris control through the 16pin EXT – Hirose 12pin interface.

weight total	245g (8.64 ounce)
height	105mm (4.13 inch)
width	64mm (2.51 inch)
depth	24mm (0.944 inch)
power supply	from 9V to 35V
integrated power booster	Yes
wireless operation	No
environmental requirements	-20° to 50° C (-4° to 122° F)
max motor control	3x (7p Lemo) (plus additional 3 cforce motors via Lbus connector)
motor ports	45° to enable the usage of right anlg connectors
selectable axis control (for 3D and panoramic)	Yes
compatible motors	most common motors on market (please contact us for specific information)
automatic motor recognition	Yes
automatic motor calibration	Yes
connectors	3x motor connectors (7p Lemo; 45°) 1x CBUS (8p Lemo) 1x LBUS (4p Lemo) 1x EXT (16p Fischer) 1x RS (3p Lemo) 1x Analog (12p Hirose)
buttons	1x CAL (Yellow) 1x Iris control (potentiometer) 1x set lens limit (blue)
software update	via PC and CPC-3 cable, cworld or cdisplay II
recommended fasting options	via cmotion rosette via 1/4`` crew
related data sheets	broadcast solution guide

