Product:
Flight Head Adapter

Data Sheet / July 2017

data sheet version: 1.1

Product ID: C02B-K50

contact: sales@cmotion.eu

General description:

The cmotion Flight Head Adapter allows a Filmotechnic Flight Head Operator to control the zoom axis on an analog Flight Head through a wireless cmotion or ARRI lens control system.
Once connected, zoom control is automatically passed to the Fight Head Control Panel while focus and iris remain on the cmotion (cvolution / compact LCS) or ARRI WCU-4 hand units. All communication between the hand units and the camin / UMC / ARRI ALEXA Plus / Mini camera remain wireless.
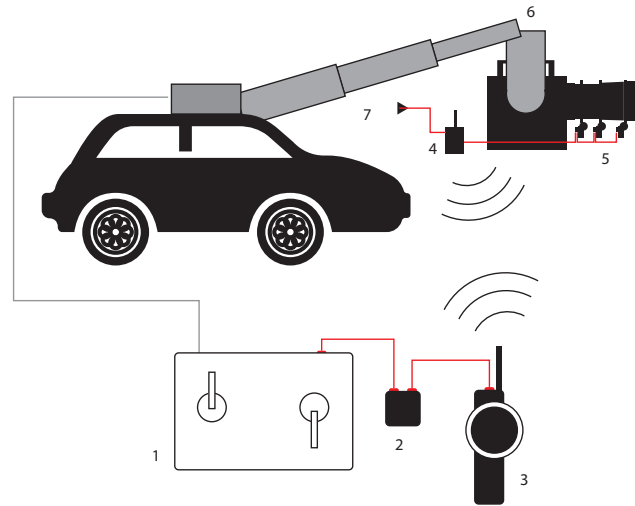

weight	150 g
height	55mm (2 1/4 inches)
width	70mm (2 3/4 inches)
depth	30mm (1 1/4 inches)
connectors	Le 6p fm LBUS (Le 4p fm)
buttons	1 x blue (no current function)
compatibility	Filmotechnic analog Flight Head and Control
cmotion configuration	cvolution hand unit + camin 3M / ARRI UMC-4 / ARRI ALEXA Plus / ALEXA Mini cforce mini / cforce plus / CLM-4 / Hedén motors compact LCS hand unit + compact LCS camin cforce mini / cforce plus motors
ARRI configuration	ARRI WCU-4 + UMC-4 / ARRI ALEXA Plus / Mini cforce mini / cforce plus / CLM-4 motors
cables (required)	Flight Head Adapter to Flight Head Controller (FHC-1) Le 6p m - Le 14p m cmotion setup: LBUS - CBUS (cable LCB-7-11) LBUS - LBUS (cable LCB-1-01) ARRI setup: LCS - LBUS (cable LAB-1-03)
Fastening / mounting options	1x cmotion rosette
optional fastening tools	cmotion cfast fastening tools
environmental requirements	-20° to 50° C (-4° to 122° F)
motor calibration trigger	No
related data sheets	cmotion camin 3M, cmotion cvolution hand unit / cmotion compact hand unit, compact camin / ARRI WCU-4, UMC-4 / cforce mini / cforce plus / CLM-4

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Wireless configurations:

cmotion's cvolution hand unit with camin 3M / ARRI UMC-4 / ARRI ALEXA Plus / Mini
cmotion's compact LCS hand unit with compact LCS camin
ARRI's WCU-4 with UMC-4 / ARRI ALEXA Plus / Mini

1. Flight Head Controller
2. Flight Head Adapter
3. Wireless Hand Unit
4. Wireless Motorbox
5. Lens Motors
6. Flight Head
7. Power

Set-up instructions:

1). cmotion's cvolution hand unit with camin 3M / ARRI UMC-4

1.   mount camin / UMC-4 on or near to camera
2.   mount motors, engage with lens and connect to camin / UMC-4 (please refer to user guide)
3.   connect power supply
4.   power on camin / UMC-4 and calibrate motors
5.   power on hand unit and test wireless communication and control over all connected motors
6.   connect Flight Head Adapter to Flight Head Control Panel using cable FHC-1 (C0EE-KL1)
7.   connect cvolution hand unit to the Flight Head Adapter using cable LCB-7-11 (C0JE-K07-11)

The zoom axis will be assigned to the Flight Head Controller automatically and communicate with the camin over the hand unit and camin / UMC-4's wireless connection.

Note: If a zoom unit is attached to the cvolution hand unit, please remove it before connecting to the Flight Head Adapter.

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2). cmotion's cvolution hand unit with ARR ALEXA Plus / Mini

1. mount motors, engage with lens and connect to ARRI ALEXA Plus / Mini
2. Power camera and calibrate motors
3. power on hand unit to test wireless communication and control over all connected motors
4. connect Flight Head Adapter to Flight Head Control Panel using cable FHC-1 (C0EE-KL1)
5. connect cvolution hand unit to the Flight Head Adapter using cable LCB-7-11 (C0JE-K07-11)

The zoom axis will be assigned to the Flight Head Controller automatically and communicate with the camera over the hand unit and ALEXA Plus / Mini's wireless connection.

Note: If a zoom unit is attached to the cvolution hand unit, please remove it before connecting to the Flight Head Adapter.

3). cmotion's compact LCS hand unit and camin

1. mount the camin on or near to the camera
2. mount the motors, engage with lens and connect to camin (please refer to user guide)
3. connect power supply
4. power on both hand unit and camin and calibrate motors (please refer to user guide)
5. connect Flight Head Adapter to Flight Head Control Panel using cable FHC-1 (C0EE-KL1)
6. connect compact LCS hand unit to the Flight Head Adapter using cable LCB-1-01 (C0JE-K01-01)

The zoom axis will be assigned to the Flight Head Controller automatically and communicate with the camin over the hand unit and camin's wireless connection.

4). ARRI's WCU-4 with UMC-4

1. mount UMC-4 on or near to camera
2. mount motors, engage with lens and connect to UMC-4 (please refer to user guide)
3. connect power supply
4. power on UMC-4 and calibrate motors
5. power on WCU-4 hand unit and test wireless communication and control over all connected motors
6. connect Flight Head Adapter to Flight Head Control Panel using cable FHC-1 (C0EE-KL1)
7. connect WCU-4 hand unit to the Flight Head Adapter using the LBUS to LCS cable LAB-1-03 (C0JE-K70-03)

The zoom axis will be assigned to the Flight Head Controller automatically and communicate with the UMC-4 over the hand unit and UMC-4's wireless connection.

5). ARRI's WCU-4 with ALEXA Plus / Mini

1. mount motors, engage with lens and connect to ARRI ALEXA Plus / Mini
2. Power camera and calibrate motors
3. power on hand unit to test wireless communication and control over all connected motors
4. connect Flight Head Adapter to Flight Head Control Panel using cable FHC-1 (C0EE-KL1)
5. connect WCU-4 hand unit to the Flight Head Adapter using the LBUS to LCS cable LAB-1-03 (C0JE-K70-03)

The zoom axis will be assigned to the Flight Head Controller automatically and communicate with the camera over the hand unit and ALEXA Plus / Mini's wireless connection.

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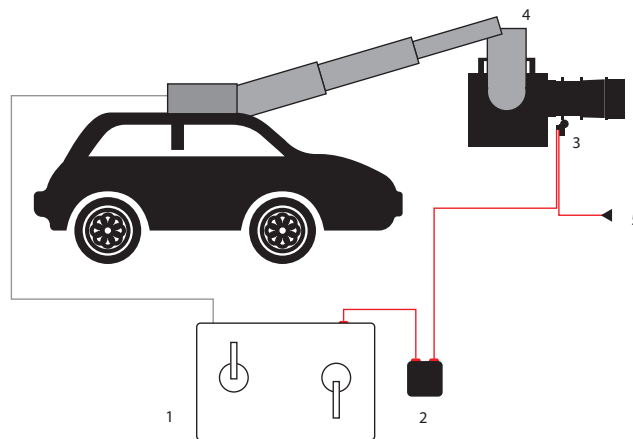
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Cabled configuration (zoom control only):

Flight Head Adapter with cforce motor

1. Flight Head Controller
2. Flight Head Adapter
3. cforce Motor
4. Flight Head
5. Power

Set-up instructions:

1.	mount zoom motor, engage with lens and connect to the Flight Head Adapter using cable LCB-x
2.	connect Flight Head Adapter to Flight Head Control Panel using cable FHC-1 (C0EE-KL1)
3.	connect power supply to motor (cable LPS-7 / LPS-1 / LPS-6) (C0JE-K37 / C0JE-K33 / C0JE-K36)
4.	press and hold function button on motor to calibrate