

SMC-1

Single Motor Controller

U S E R M A N U A L

Date: 10th September 2014

Interfaces

The SMC-1 includes the following interfaces:



Interface	Description
Antenna	Swivel antenna
LCS Connector	Connects to hand units via ARRI LCS cable, for wired operation
CAM Connector	Multi-pin connector, offering a variety of protocols, providing REC and tally control for most film and digital cameras
CLM Motor Connector	Connects to an ARRI Controlled Lens Motor
Micro SD Card Slot	Mounts a Micro SD card
3/8" UNC Mounting Point	Mounting point for accessories like L-Bracket or V-Plate

Control Panel

The SMC-1 features a user interface enabling the user to quickly configure the system. The 1.2" transfective LCD display shows vital status information and is easily readable in any ambient light conditions.



Fig. 1: Control Panel

Soft Buttons

Four soft buttons are located above and below the display. They change their behavior depending on the screen content. Two rows at the top and the bottom of the screen show the function related to each button. Buttons without a label have no function in that screen.

Menu Navigation

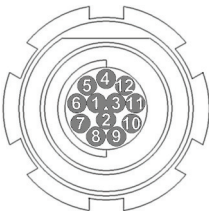
Use the UP and DOWN soft buttons to navigate through the menu.

To access a new menu level, press the ENTER soft button. To go back, press the BACK or the HOME soft button.

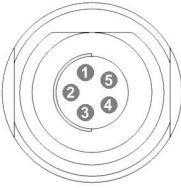
Press SET to activate a setting.

Connector Pin-Outs

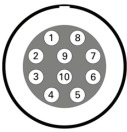
CLM



1	GND	Ground
2	MTYPE-A	Motor type sense
3	MTYPE-B	Motor type sense
4	MTYPE-C	Motor type sense
5	+5V	Encoder supply
6	Encoder-A	Encoder input A
7	Encoder-B	Encoder input B
8	n.c.	
9	n.c.	
10	n.c.	
11	Motor +	Motor drive output
12	Motor –	Motor drive output

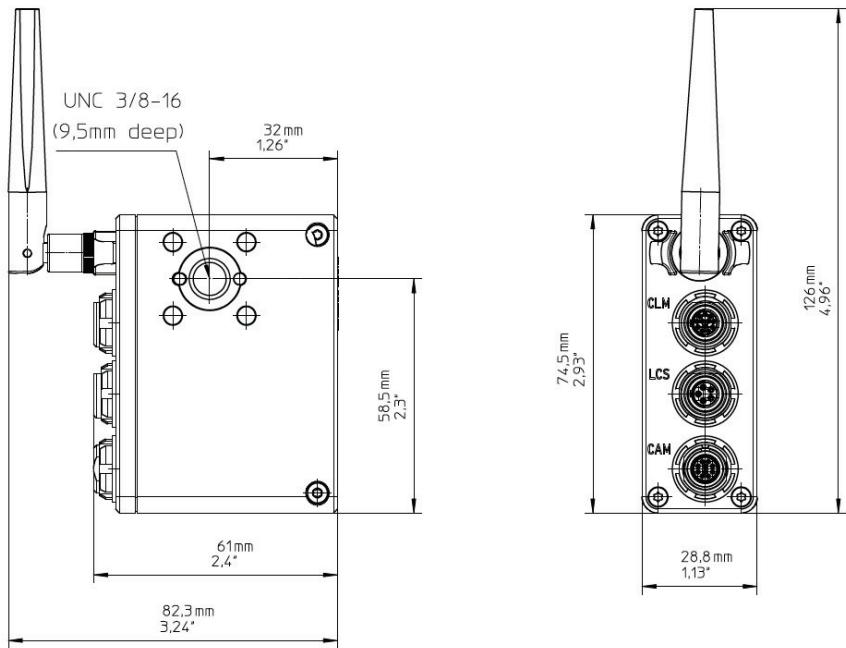
LCS

1	GND	Ground
2	n.c.	
3	CAN-L	CAN bus
4	CAN-H	CAN bus
5	+V-BAT	Battery supply output

CAM

1	GND	Ground
2	+V-BAT	9.5 V to 34 V DC IN
3	RxD	RS232
4	TxD	RS232
5	R/S	ARRI R/S
6	RUN-SW2	Opto switch, connects to pin 8 @REC (max. 100 mA/50 V)
7	ACAM	Tally, analog input, active high (default value: 1.25 V transition level)
8	RUN-SW1	Opto switch, connects to pin 6 @REC (max. 100 mA/50 V)
9	DAC-CAM	REC, analog output, active high (default value @REC: 3.3 V)
10	D-CAM	TALLY, digital input, active low, 3.3 V logic signal level

Dimensions and Weight



Weight (including antenna): 173 g

Electrical Data

Supply Voltage:	9.5 V to 34 V DC (full motor speed)
Current Consumption:	100 mA@12 V (radio on/ready) 50 mA@24 V (radio on/ready)
Operating Temperature:	-20 to +50 °C (-4 to +122 °F)

Radio System

The SMC-1 contains a radio unit that enables wireless lens control and lens data communication with a white coded radio module. A white ring at the base of the antenna mount point identifies it. It offers 8 channels to choose from:

Channel	Frequency
0	2.410 GHZ
1	2.415 GHZ
2	2.430 GHZ
3	2.435 GHZ
4	2.450 GHZ
5	2.455 GHZ
6	2.470 GHZ
7	2.475 GHZ

White radio and legacy yellow radio cannot be mixed in the same radio network of camera and hand units. It is possible to use both systems in parallel within different radio networks.