

C1 PRO X10

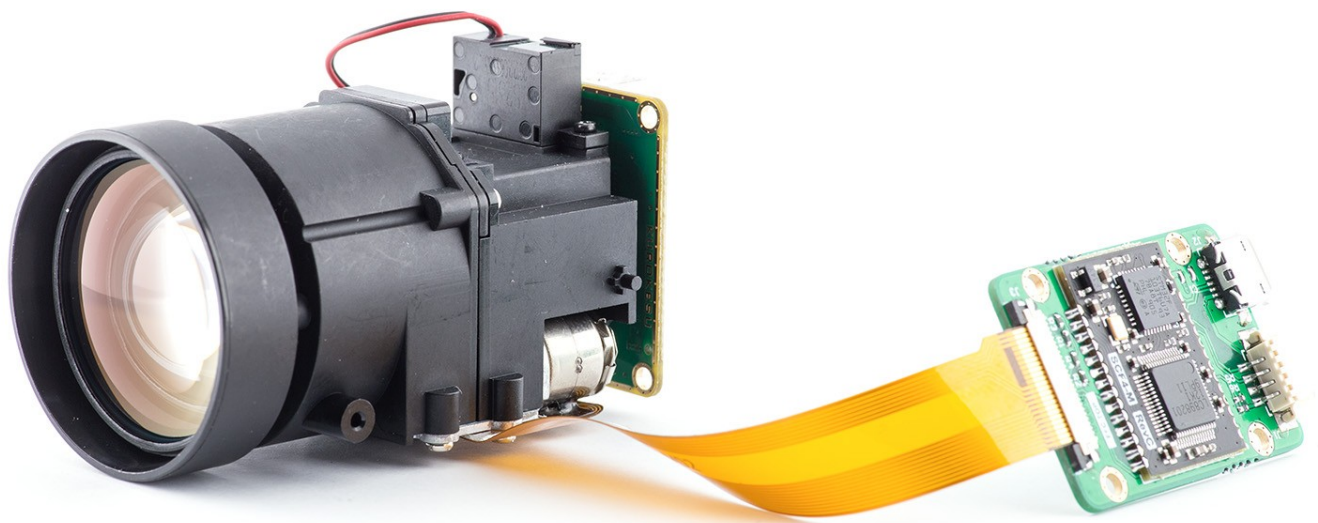
Lightweight and compact USB powered, self sufficient 5.1~47mm motorized zoom lens camera kit for day/night operation

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Overview

Lightweight and compact USB powered, self sufficient 5.1~47mm motorized zoom lens camera kit for day/night operation.

- Board level camera used in C1 PRO camera.
- Controller SCF4-L050 (featuring SCF4-M module)



Lens specifications

Optics

Image sensor	Effective image area > 6.4mm
Focal distance	4.7±5% ~ 47±5%mm
Aperture	f/1.6~f/2.5
Focus range	<ul style="list-style-type: none">• WIDE: 1.0m - infinity• TELE: 1.0m - infinity
Field of view (D=6.6mm)	<ul style="list-style-type: none">• WIDE: 71°• TELE: 7.1°
Distortion	<ul style="list-style-type: none">• WIDE: -5.2%• TELE: 1.8%

Mechanics

Mechanical back focus	-0.33 (in glass t=0.4 BK7)
Lens zoom structure	The stepper motor is directly connected to the screw
Lens focusing structure	The stepper motor is directly connected to the screw
Lens size	<ul style="list-style-type: none">• Length: 59.6mm• Width: 33.7m• Height: 38.7mm• Front end diameter: 34.8mm

Motor specifications

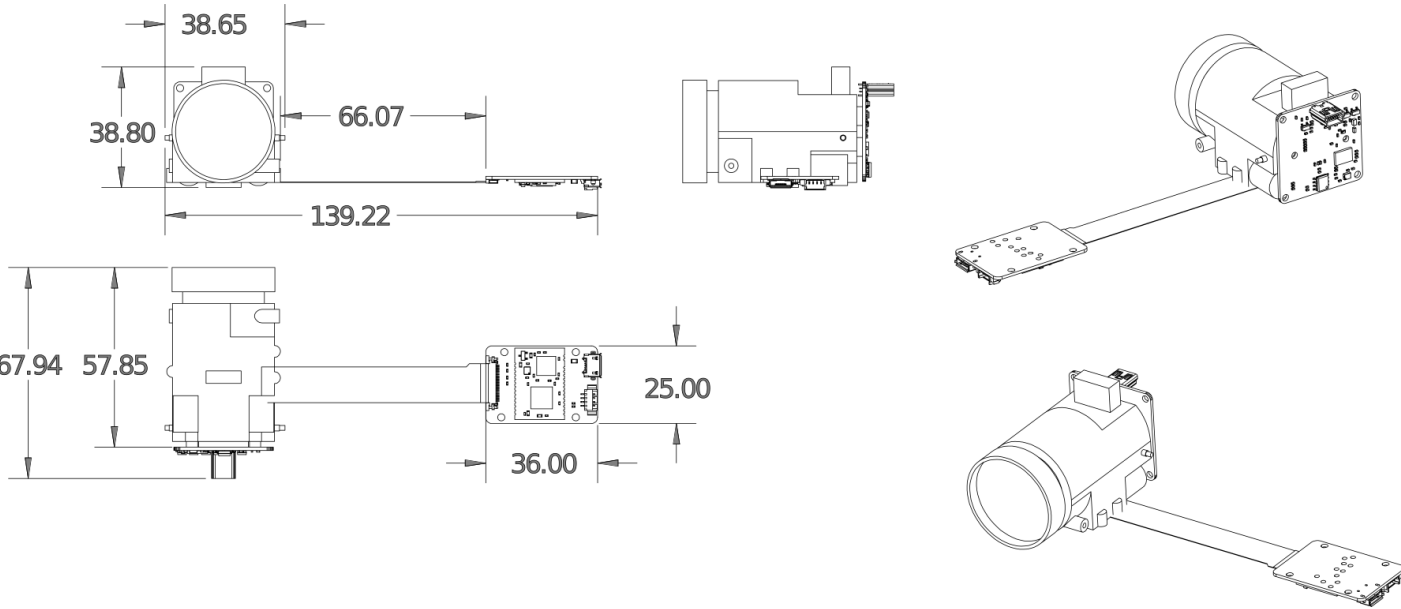
Screw pitch	0.4mm
Spiral rotation direction	Right
Rated voltage	4.5-5.0 VDC
Coil resistance	55Ω ± 10%
Phase count	2
Step angle	18° / step
Max start frequency	800 PPS/min @ at 5.0 VDC

Dimensions

Lens dimensions

Length	57.9mm
Width	38.7mm
Height	38.8mm

Camera drawing



3D models

3D models can be downloaded from [GitHub](#)

Control software

SCF4-SDK comes with open-sourced command line and GUI sample programs for rapid controller evaluation. A simple control software example is provided for testing and demonstration. Software is given "as is" to help with getting started and testing.

More details and control explanation in SCF4 documentation. Source code is maintained on GitHub