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# C1 PRO X18

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LIGHTWEIGHT, USB POWERED, SELF SUFFICIENT  
5.5~96MM MOTORIZED ZOOM LENS CAMERA KIT FOR DAY/  
NIGHT OPERATION

## DATASHEET



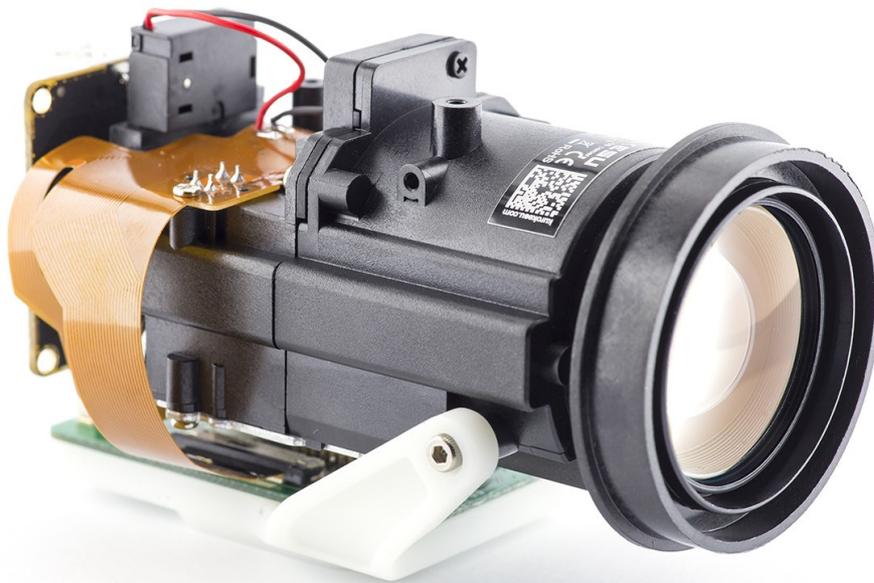
**KUROKESU**

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## Overview

Lightweight, USB powered, self sufficient 5.5~96mm motorized zoom lens camera kit for day/night operation. Kit is fully assembled and tested before shipping.

- Uses PCBA module used in [C1 PRO camera](#).
- Controller SCF4-L087 (featuring [SCF4-M](#) module)



# Lens specifications

## Optics

Image sensor	1/2.7" Effective image area > 6.8mm
Focal distance	5.85±5% ~ 93.6±5%mm
Aperture	f/1.8~f/3.9
Focus range	<ul style="list-style-type: none"> <li>• WIDE: 0.2m - infinity</li> <li>• TELE: 1.0m - infinity</li> </ul>
Field of view (D=6.71mm)	<ul style="list-style-type: none"> <li>• WIDE: 62.6°</li> <li>• TELE: 4.05°</li> </ul>
Distortion	<ul style="list-style-type: none"> <li>• WIDE: -6.40%</li> <li>• TELE: 2.92%</li> </ul>

## Mechanics

Lens length (image surface-top lens barrel)	79.74mm (in glass)
Mechanical back focus	-0.92 (in glass t=0.5 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"> <li>• Length: 80.7mm</li> <li>• Width: 39.7mm</li> <li>• Height: 42.2mm</li> <li>• Front end diameter: 32.1mm</li> </ul>

## Motor specifications

Screw pitch	0.4mm
Spiral rotation direction	Right
Rated voltage	5.0 VDC
Coil resistance	55Ω ± 10%
Phase count	2
Step angle	18° / step

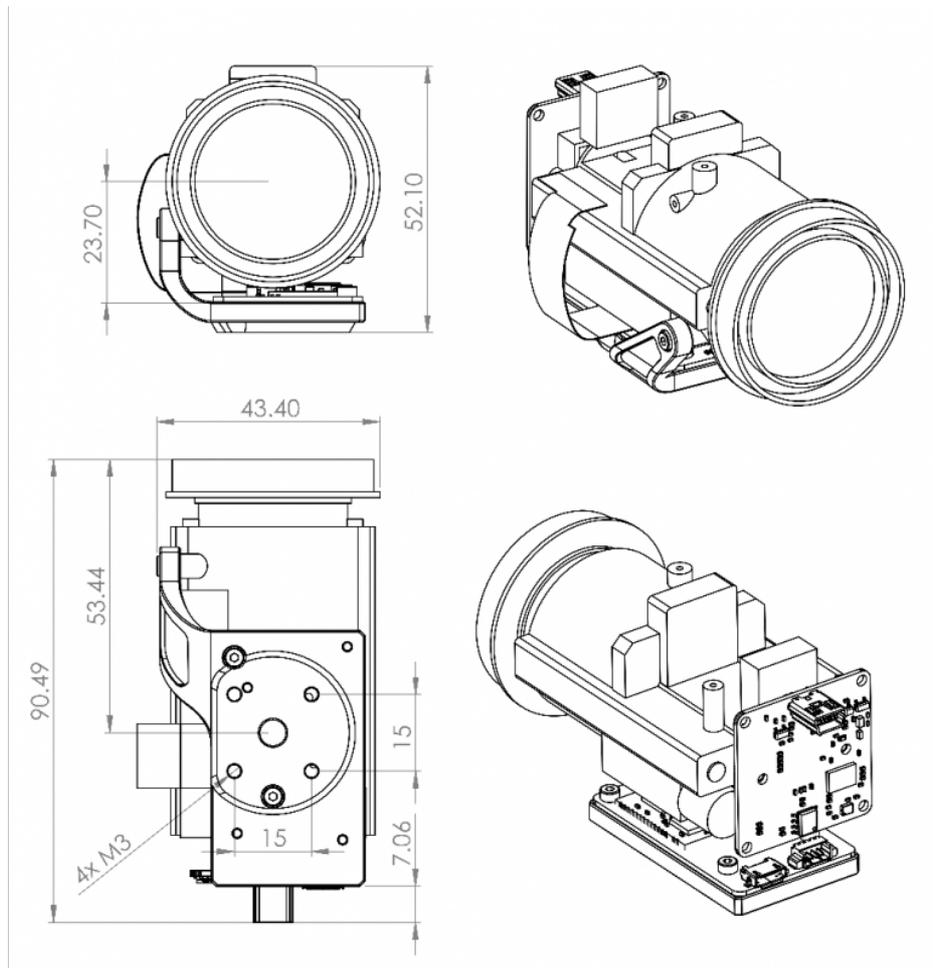


# Dimensions

## Camera dimensions

Length	90.5mm
Width	45mm
Height	52.1mm

## Camera drawings



## 3D models

**i** 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](#)

