EF Lens Controller

USB-C controller allows control of focus, aperture and stabilization for **Canon EF** lenses with USB, UART and Wi-Fi control interface.







For illunis EMC Cameras

Standard M58 Mount

The illunis EFLC lens controller for Canon EF lenses controls aperture, focus and image stabilization. The EFLC can operate as a stand alone device powered though USB-C, or as an embedded device using a UART. A wireless Wi-Fi interface is also provided.

The EFLC can dynamically detect lens attachment and removal, as well as identify the lens name, focus, iris, serial number and zoom information. The EFLC is available as an OEM module for integration into any camera system requiring control of Canon EF Lenses.

illunis EFLC Highlights:

- Second generation design with 32bit microprocessor
- Official EF protocol, not reverse engineered.
- USB, UART and Wi-Fi interface with embedded web page controls.
- Aperture detection and control in 1/8 F-Stop increments.
- Focus detection and control at lens internal encoder level.
- Image stabilization detection and activation.
- Internal EEPROM available to the user (1K).
- Save and restore lens control, aperture and focus positions.
- Human readable and machine compatible command sets.
- Machined CNC lens bayonet.
- Locking retention pin with set screw.
- Wireless remote control available.
- Sample Windows control application and SDK.

illunis EFLC Specifications

All Canon EF Lenses	
Range Read from lens, controllable in 1/8 F-stop increments. Move aperture absolute, F-Stop, incremental, 1/8 Stop, end points.	
Range Read from lens, controllable in lens encoder increments. Move focus incremental, absolute, end points, steps, percent, cm.	
Status, SN ,Name, Info, 8 Aperture, 12 Focus, 1 Zoom, 5 EEPROM, Save and restore aperture and focus.	
USB or externally powered.	
Type-C connector. Screw Locking	
Built into Windows.	
Serial COM 115,200 baud (fixed).	
USB, UART.	
USB (5.0V VBUS). UART: 5.0V.	
illunis EMC, M58, OEM.	
44.0mm.	
1K Bytes.	
CNC EF mount.	
Available. Please Call.	
Bare board, custom design.	
Boot Loader installed.	
Assignable to Focus or Aperture.	

Applications

Auto Focus
Digital Imaging

Inspection
UAVs and Drones
Industrial applications
Surveillance and security

Traffic

Eliminate Z-Focus Stage

Defense and Space

Medical Scientific Astronomy

OEM Applications

Documentation and Print

Contact Information

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Wireless and Web Page Control



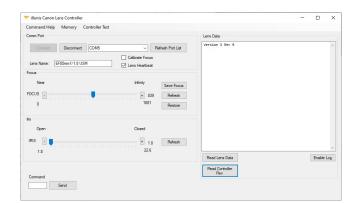
Wireless controller with 1.28" TFT LCD touchscreen and rotary encoder. Battery powered with USB-C charging.



Embedded wireless web page control of all features.

Software

The EFLC comes with our free lens control software. Windows-10/11 64bit compatible; Python and C source available.



illunis specializes in custom applications and OEM designs.

A Canon RF Controller is available.