

CF100 camera with motorized focus



World Novelty

This is the worlds first camera with FPD-Link III interface and motorized focus.

It can be connected to Auvideo Jetson™ carrier boards with integrated FPD-Link III de-serializer (Orin Nano™ to AGX Orin™). Multiple cameras may be connected to a single system. White LED lightning can be integrated. Optionally the Jetson can implement auto focus in software.

This camera is perfectly suited for applications where the distance between camera and object varies – like when the camera is mounted on the head of a robotic arm.

Key benefits

- motorized focus
- long cable length
- resistant to vibration and shock
- virtually zero latency
- low installation depth: 22mm
- customisable enclosure = flexible mounting options
- optional flexible cabling for drag chains

Technical Specification

Feature	Description
Model	CF100
Interface (4GHz)	FPD-Link III (automotive) or V³Link (industrial)
Sensor	Sony imx519 (rolling shutter)
Resolution	16M pixel (4656x3496)
Video	4656x3496 @ 10 fps 3840x2160 @ 21 fps 1920x1080 @ 60 fps 1280x720 @ 120 fps
Color format	8/10 bit RGGB (Bayer encoded)
De-Bayering	On the Jetson based host system
Cable and connector	Coax 50Ω – up to 15m (Fakra code Z)
Viewing angle	80°
Focal ration (F-Stop)	1.75
Sensor size	6.828mm (4:3) with 1.2µm pixels
Focal length	4.28mm
LED brightness control	8 high power LEDs/analog control
LED color temperature	6500K (white)
Enclosure material	High temperature SLA (>200°C) with aluminum front
Power over coax	12V
Size	50mm x 30mm x 22mm



Customisation

The enclosure of the camera may be customised for OEM projects. Custom branding may be added on request. Customisation is easy as the housing is 3D printed with the so called stereolithography process (SLA) at very high resolution for top quality and fine details. Custom mounting points may be added.

The custom enclosure pictured above features a tripod mount on the back of the camera (3/8"). The standard camera has a flat bottom plate.

Versions

SKU	Description
72002-LED	CF100 camera with LED lighting
72002-noLED	CF100 camera without LED lighting
72002-noIR	CF100 camera (without IR filter)
Add -V3 suffix	V³Link version (industrial grade FPD-Link III)



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