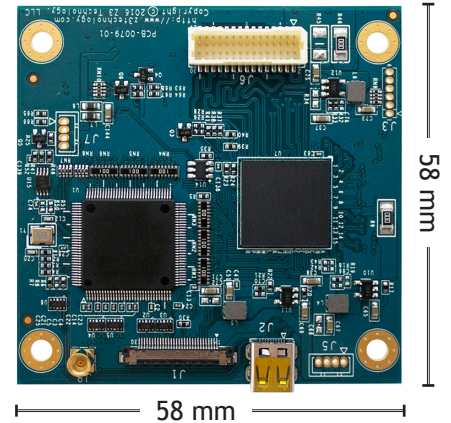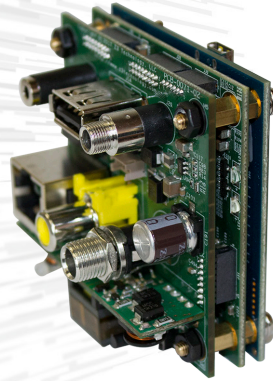# Dual Camera Full 4K Encoder
Designed for your Visible & IR Monitoring Needs
FV4K-DCK-1x

- H.265/H.264 Dual Camera Video Streaming
- Interfaces with HDMI, LVDS, and Composite cameras
- Programmable to support a variety of cameras
- High Quality Low Latency Encoding Pass Camera Control Commands over IP
- ONVIF Profile S & T Compliant

The FV4K-DCK-1x designed for dual camera inspection, surveillance, industrial and UAV applications. The flexibility of the system allows for a visible camera and an infrared or night vision camera. The hardware consists of a 3-board set: Input, Encoder and Connector PCB. The system is capable of encoding multiple channels of H.265 and H.264 video in 4K resolutions. The Input board features flexible digital and analog input ports. The encoder can be configured to stream over IP and simultaneously record to USB or micro SD card. This compact design only uses 4.5 watts of power when streaming from 2 cameras. The FV4K-DCK-1x is available with either software preloaded or with an optional SDK starter kit.

58 mm
58 mm

Technical

Interfaces

•Visible Camera Formats	Sony FCB-ER8550 , Micro HDMI
•HD and SD IR Formats	RS170, NTSC/PAL
•Recording	To either USB, or Micro SD
•Additional Interfaces	GigE, Audio Input, RS-485, Micro-HDMI Output, Composite Output
Video Codecs	H.265, H.264
Encoding Resolutions	4Kp30, 1080p (up to 60fps), 720p, NTSC/PAL, VGA, CIF and QVGA
Output Formats	RTP, RTSP, MPEG-2 TS and RTMP[1]
Features	• Low Latency, Low Power • Ability to Resize HD Camera Input to Lower Resolutions Keeping Full Field of View • SRT Modes Supported: Caller, Sender, Rendezvous & SRT Encryption • Pass Camera Control Commands over IP • Easy-to-Use HTTP-Based Control Interface • ONVIF® Profile S & T • Compatible with ZEUS® Video Decoders[1]

[1]in H.264 mode only

Specifications

Encoder Board Size	58 x 58 x 38 mm (2.28 x 2.28 x 1.49 in)
Encoder Board Weight	104g (aluminum heat pipe is additional 40g)
Power Consumption	4.5W typical while encoding 2 cameras in H.265 video at 1080p60
Power Supply	12V DC
Operating Temperature	-5˚C to +70˚C

ORDERING OPTIONS

FV4K-DCK-1x
OEM Production Set

- FV4K-DCK-1x Encoder Boards

Note: Sony FCB-ER Series Camera Blocks and KEL ribbon cable sold separately*
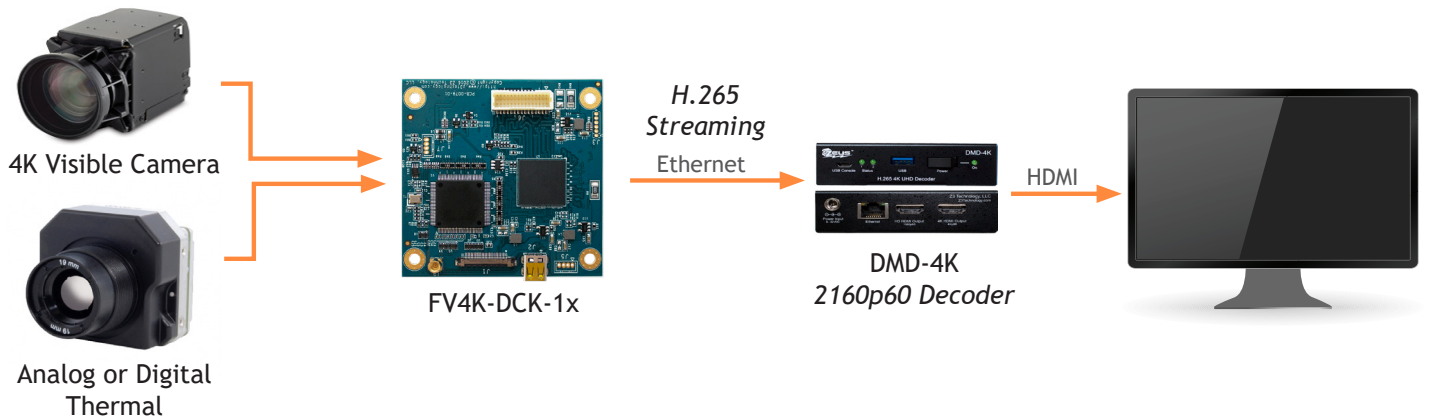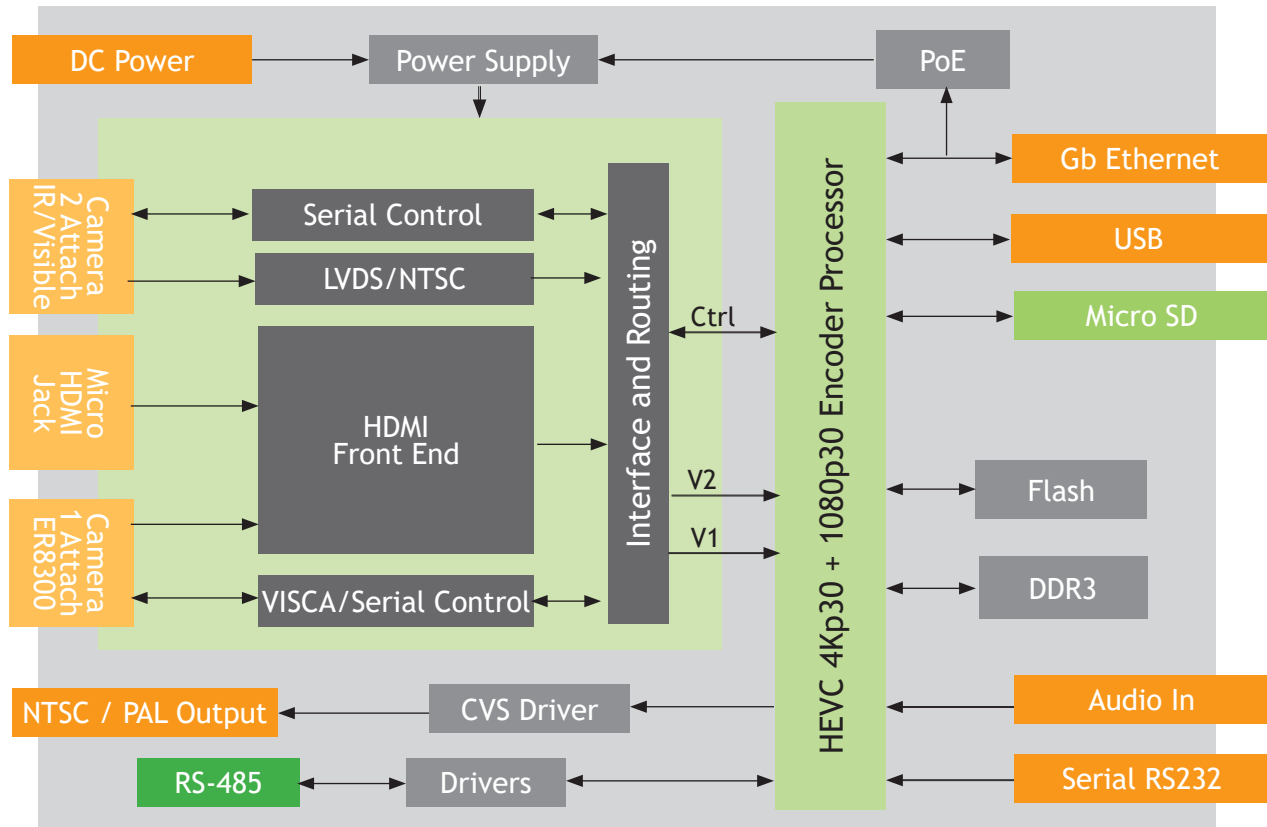
FV4K-DCK-RPS
OEM Starter Kit

- FV4K-DCK-1x Encoder Boards
- Power Supply
- Software SDK
- Documentation
- Serial Cable
- KEL Cable

Note: Sony FCB-ER Series Camera Block sold separately"

APPLICATIONS
Inspection
Security and Surveillance
Industrial
UAV and Drones
Video Conferencing
Customized Applications*

FV4K-DCK-1x Encoder (H.265 4Kp30 + 1080p30)

- DC Power
- Power Supply
- PoE
- Camera 2 Attach IR/Visible
- Serial Control
- LVDS/NTSC
- Micro HDMI Jack
- HDMI Front End
- Camera 1 Attach ER8300
- VISCA/Serial Control
- Interface and Routing
- Ctrl
- V2
- V1
- HEVC 4Kp30 + 1080p30 Encoder Processor
- Gb Ethernet
- USB
- Micro SD
- Flash
- DDR3
- NTSC / PAL Output
- CVS Driver
- RS-485
- Drivers
- Audio In
- Serial RS232

4K Visible Camera

Analog or Digital Thermal

FV4K-DCK-1x

H.265 Streaming
Ethernet

DMD-4K
2160p60 Decoder

HDMI

*Contact Z³ Technology for Customized Product Options
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Z³ Technology is an industry-leading, USA-based manufacturer of production-ready embedded multimedia solutions and IP camera systems. From our founders to our world-class engineers to our sales and customer service team, we understand your requirements and speak your language. Our experience allows us to provide cost-effective solutions to meet your multimedia product requirements. With the assistance of our robust worldwide distribution and sales networks, we can provide a simple solution for your multimedia needs.