Dual Camera HD Encoder

Designed for your Visible & IR Monitoring Needs

FV2K-13A

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

The FV2K-13A 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 2-board set: Encoder and Connector PCB. The system is capable of encoding multiple channels of H.265 or H.264 video in HD resolutions. The Input board features flexible digital and analog input ports. The encoder can be configured to stream over IP and simultaneously record.

Technical

Interfaces

•Visible Camera Formats	Sony FCB-EV-Series, Tamron MP-Series
•HD and SD IR Formats	LVDS*, NTSC/PAL/RS170*
•Recording	To USB, Micro SD or NFS
•Additional Interfaces	GigE, Audio Input, RS-485, Micro-HDMI Passthrough, PoE, Composite Output
Video Codecs	H.265 or H.264
Encoding Resolutions	1080p (up to 60fps), 720p, NTSC/PAL, VGA, CIF and QVGA
Output Formats	RTP, RTSP, MPEG-2 TS and RTMP[1]
Features	• Easy-to-Use HTTP/HTTPS web GUI with live video preview • Pass VISCA™ Camera Control Commands over IP • ONVIF® Profile S and T • Simultaneous Stream and Record • Overlay of GPS or NTP Data • SRT Modes Supported: Caller, Sender, Rendezvous & SRT Encryption • Pelco D PTZ Positioning • Absolute PTZ Support • Compatible with ZEUS® DMD-4K Video Decoder • Time stamp support through overlay or SEI data

Specifications

Encoder Board Size	75 x 50 x 33 mm (2.95 x 1.97 x 1.30 in)
Encoder Board Weight	73g
Power Supply	12V DC or PoE 802.3af/at class 0

ORDERING OPTIONS

FV2K-13A
OEM Production Set

- FV2K-13A Encoder Boards

Note: Sony FCB-EV Series Camera Blocks and KEL ribbon cable sold separately

FV2K-13A-RPS
OEM Starter Kit

- FV2K-13A Encoder Boards
- Power Supply
- Software SDK
- Documentation
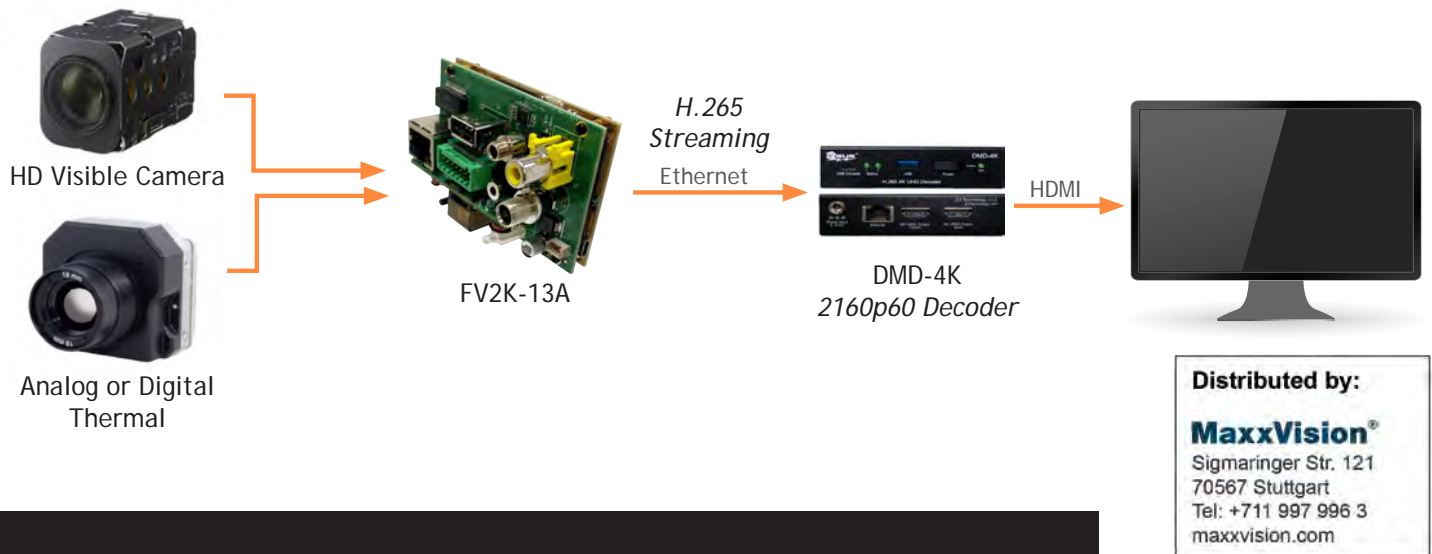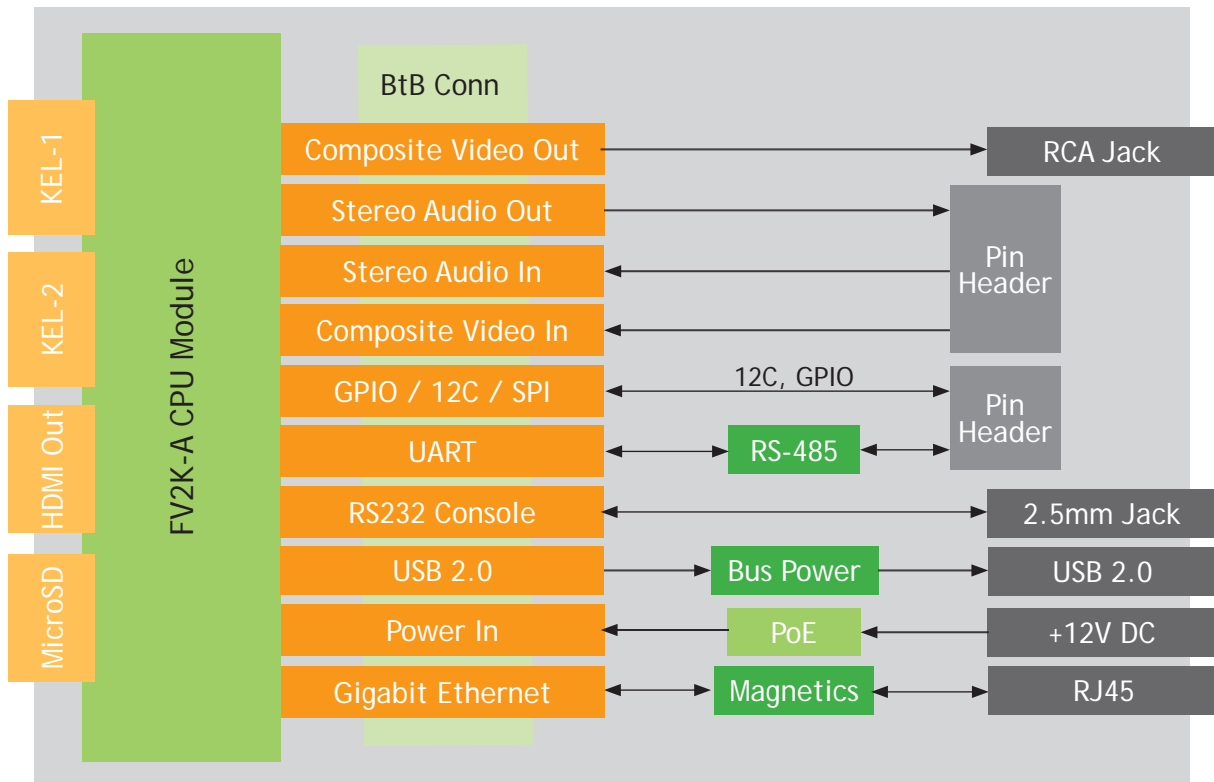- Serial Cable
- KEL Cable

Note: Camera Blocks and KEL ribbon cable sold separately

APPLICATIONS

Inspection

Security and Surveillance

Industrial

UAV and Drones

Video Conferencing

Customized Applications*

FV2K-13A Encoder (H.265 60fps x2)

KEL-1	
KEL-2	
HDMI Out	
MicroSD	

FV2K-A CPU Module

BtB Conn

- Composite Video Out → RCA Jack
- Stereo Audio Out → Pin Header
- Stereo Audio In → Pin Header
- Composite Video In → Pin Header
- GPIO / 12C / SPI → 12C, GPIO → Pin Header
- UART → RS-485 → Pin Header
- RS232 Console → 2.5mm Jack
- USB 2.0 → Bus Power → USB 2.0
- Power In → PoE → +12V DC
- Gigabit Ethernet → Magnetics → RJ45

HD Visible Camera

Analog or Digital Thermal

FV2K-13A

H.265 Streaming
Ethernet

DMD-4K
2160p60 Decoder

HDMI

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.