

# EPSILON 4K BASE STATION CAMERA CONTROL SYSTEM

**VideoSys**  
Broadcast

## Description:

Epsilon is a self-contained radio camera CCU system designed to simplify the installation and use of radio camera systems in studio or OBs. Configured primarily to operate with our range of transmitters, with optional dual head operation, Epsilon can offer up to 4 channel MRC diversity with unparalleled receive performance.

The system comprises up to two, dual channel fibre receive slot in modules, RF receiver and decoder options either HD – H264 or H265 up to 4K. In 4K mode the system can operate either single or dual pedestal. Return camera control is Uni or Bi-Directional.

## Key Features:

- Single or twin dual channel fibre receiver modules
- Up to four channel MRC diversity receiver
- H.264 HD or H.265 decoder covering formats from 720p60 to 2160p60
- Capacitive touch screen interface
- Compatible with existing Videosys fibre systems
- Award winning Videosys camera control system



## TECHNICAL SPECIFICATIONS

### EPSILON BASE

**Outputs - 4K Output:** 4x 3G, 2x 6G, 1 x 12G  
**Audio:** 8 Channels Embedded -  
Analogue 4 Balanced XLR3M  
**HEVC Compression:** HEVC/H.265/MPEG-H Part 2 8-bit or 10-bit,  
4:2:0 or 4:2:2  
**Legacy Compression:** H.264 and MPEG2  
**Profiles:** 4K UHD: 4:2:2/4:2:0, 8/10-bit 1080i / 50 / 59.94 / 60  
2160p / 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60  
HD: 4:2:2/4:2:0, 8/10-bit 720p / 50 / 59.94 / 60  
1080p / 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60  
**Genlock:** BNC, TLS/B&B  
**HDR/WGC:** Rec. ITU-R BT.2100-2 (PQ and HLG) / Rec. ITU-R BT.2020  
**Latency:** Encoder + Decoder 60ms (70ms in 4K mode)  
with ULL option  
**DVB-T Bandwidth:** 6MHz, 7 MHz, 8 MHz, 2x6 MHz, 2x7 MHz, 2x8 MHz.

**DVB-T Constellations:** QPSK / 16QAM / 64 QAM  
**DVB-T Bitrates:** 3.732Mbps to 63.336Mbps  
**Power:** IEC 100-240VAC, 50/60Hz - Consumption TBC  
**Ethernet:** 2x RJ45 Connectors (Front and Rear) 10/100/1000 Base-T  
**Option Slots:** 2 Option slots for option modules (1 must be in use)  
**SMPTE (RF over Fibre) Option module:** Lemo 3K.93C FXW  
Connector  
**IF/RF Option Module (switchable):**  
2x BNC IF inputs with LNB Power  
1x XLR3F RS232/RS485 data connector  
**EPSILON HEAD**  
**RF Receiver**  
Frequency: 1.0 - 7.5GHz (RF Band specified upon ordering)  
Camera Control  
Frequency: 403-473 MHz Bandwidth: 12.5kHz  
Modulation: GMSK Power: Selectable between 0-1000mW

T: +44 (0)1293 541 200

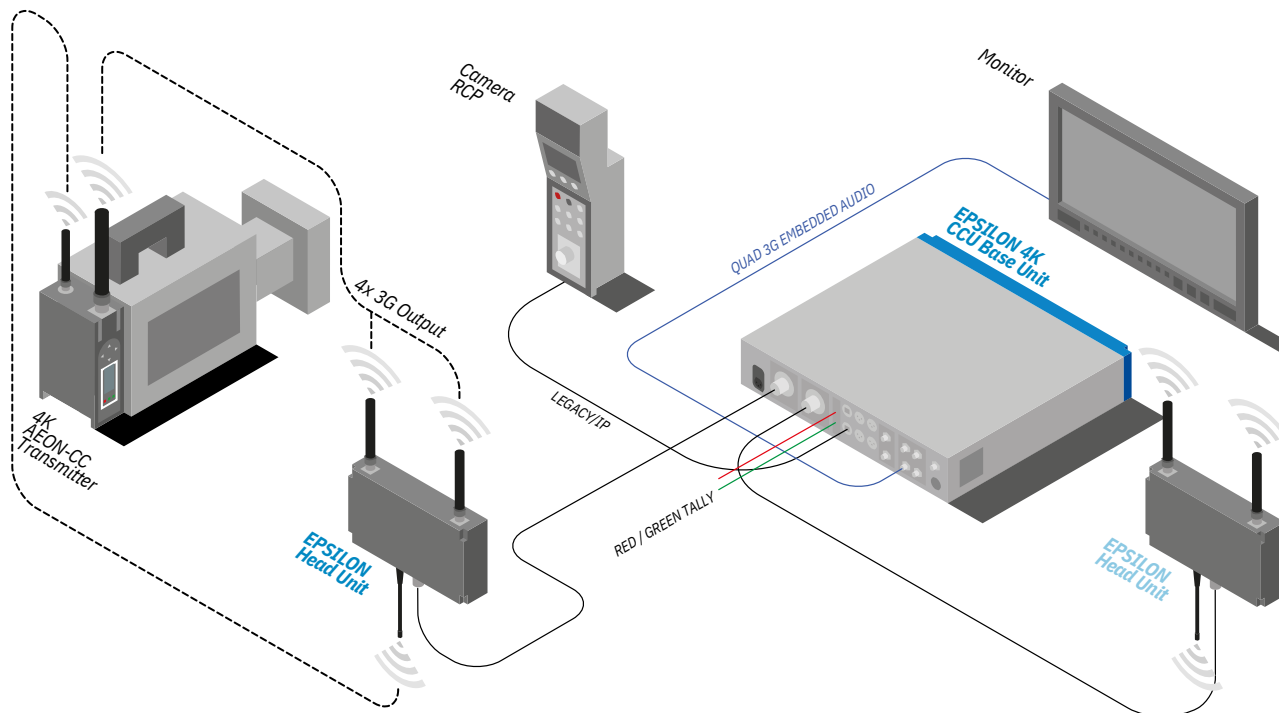
E: sales@videosys.tv

W: videosys.tv

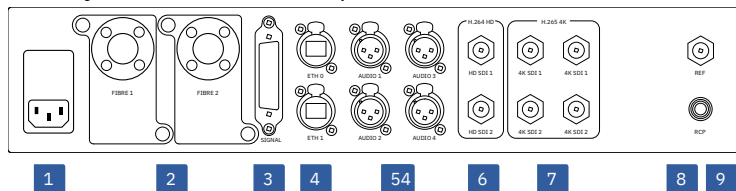
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# EPSILON SETUP OPTIONS

Epsilon is a 4K integrated Camera Control System. It comes with a pre-integrated 4K Decoder and Receiver. All as part of the 4K Transmission system which Videosys provide. Epsilon consists of a Base and a Head Unit and works seamlessly with the 4K AEON-CC to provide the complete 4K system. Easy to manage and deploy the Epsilon makes live 4K Transmission simple to manage and set up and so reduce production costs.

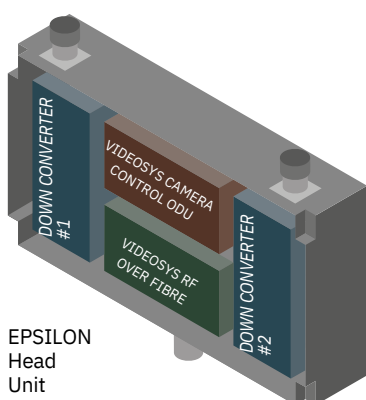


Videosys EPSILON CCU back panel

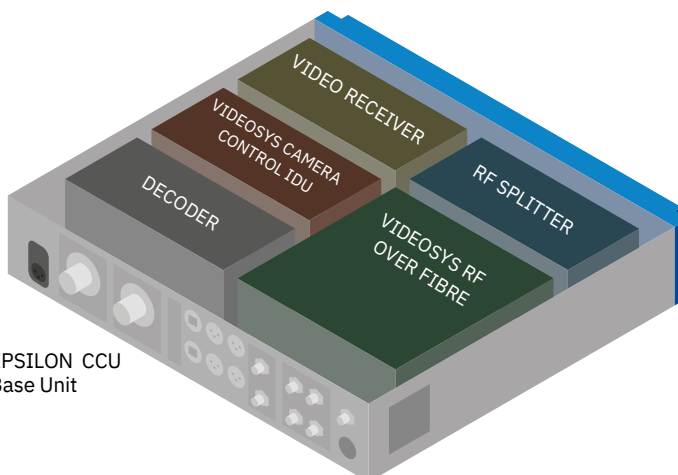


**Key**

- 1 IEC POWER IN x 1
- 2 SMPTE FIBRE x 2
- 3 SIGNAL x 1
- 4 RJ45 Ethernet x 2
- 5 3 PIN XLR AUDIO OUT x 4
- 6 BNC-HD SDI OUT x 2
- 7 BNC-HD 4K SDI OUT x 4
- 8 REF
- 9 RCP



EPSILON Head Unit



EPSILON CCU Base Unit

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