

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 OB's. Configured primarily to operate with the DTC 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

Fully integrated System comprising:

- Single or twin Dual channel fibre receive 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 SD/HD/3G BNC - 4x 3G SDI 2SI or SQD

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

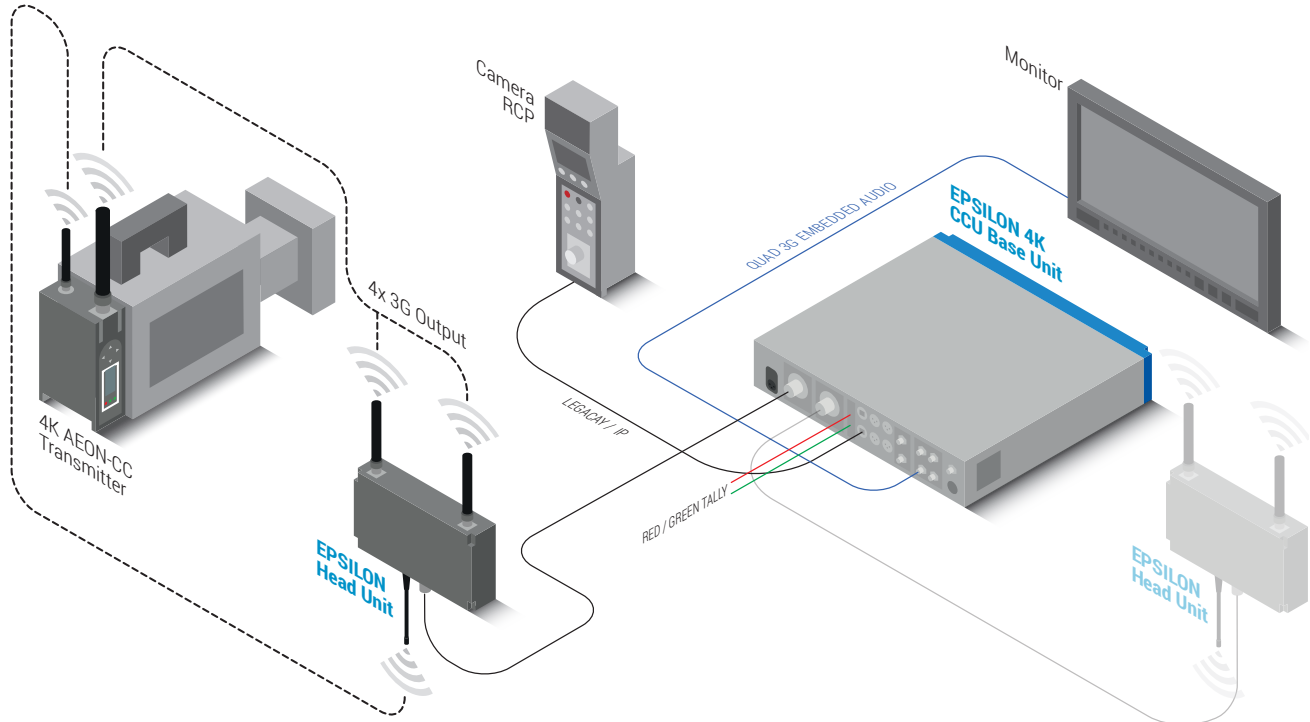
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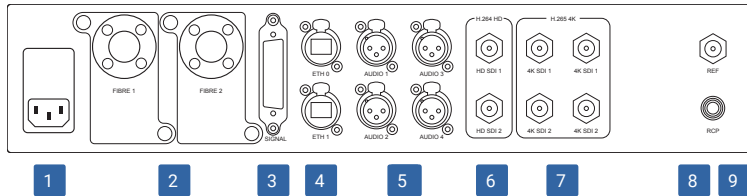
EPSILON set up options



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.

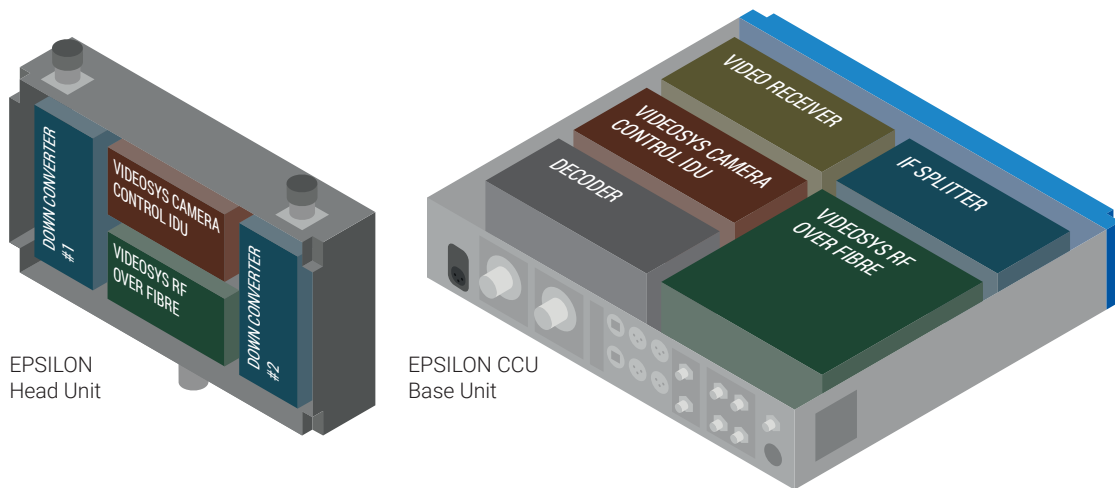


Videosys EPSILON CCU back panel



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



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