

MK CE Mini



Effortless Single Channel Contribution Encoding

The CE Mini forms part of the Cygnus Contribution solution for acquiring and processing amazing content from live events and is a high performance single channel contribution encoder in a cost effective, low power, compact form factor unit.

Whether sending live video over managed IP networks, or via the open internet the CE Mini provides high quality HEVC or MPEG-4 AVC video compression. It generates an IP encapsulated MPEG transport stream output, with SRT (Secure Reliable Transport) error correction and security if required, or an RTMP output.

It effortlessly connects to professional or 'prosumer' cameras via its in-built SDI and HDMI input interfaces, for quick and simple deployment.

For contribution over managed IP networks and into public cloud instances, or pushing live video to social media and streaming platforms, the CE Mini is the ideal video encoding solution.

Product Overview

Single-Channel simplicity

High quality HD 4:2:0 8 bit encode using HEVC or MPEG-4 AVC whilst operating at extremely low power.

Deployment Simplicity

'Set and forget' connectivity and miniature form-factor allows quick setup and tear-down between live events.

Direct streaming

The MK CE Mini offers many options to facilitate direct streaming output of live events to various clients.

Key Product Features

- HD audio/video capture over built in SDI or HDMI 2.0 inputs
- Real-time 1080p/HD 4:2:0 8 bit video encode (MPEG-4 AVC or HEVC)
- Streaming output via Gigabit Ethernet or USB wireless dongle
- Video Record to USB Storage
- Small form-factor (90x100 mm) and low power consumption for easy adoption in portable applications
- Web UI control



Specifications

Inputs

SDI Input	Connector: 1x BNC 75 ohms 3 Gbps HD-SDI standard: SMPTE 424M HD-SDI standard: SMPTE 292M Embedded Audio: SMPTE 299M (HD) SDR/HDR Signalling: SMPTE ST 425-5
HDMI Input	HDMI 2.0 interface
Control	Web browser interface

Outputs

Ethernet	Connector: 1 x RJ 45 Format: 100/1000BaseT
USB	Connector: 2 x USB 2.0

Stream Processing

Stream Features	Streaming Protocols RTSP/RTMP/HLS/TSoIP
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Video and Audio Options

Video Encoding	H.265/HEVC H.264/MPEG-4 AVC up to 1080p Video formats 1920x1080: 60p/59.94p/50p/30p/29.97p/25p 1920x1080: 60i/59.94i/50i 1280x720: 60p/59.94p/50p/30p/29.97p/25p Frame rate 8/10-bit Chroma Sampling 4:2:0 Rate control CBR/VBR GOP structure I only, IP, IPB, IBBP HDR supported
Audio Encoding/pass-through	Encode MPEG-1 Layer II, Dolby Digital or AAC, 48Khz Pass-through LPCM Option Ancillary data Option

Physical and Power

Dimensions (W x D x H)	100 x 90 x 16mm
Input Voltage	DC 12V
Power Consumption	Less than 12.5W
Cooling	Integrated fans

Environmental Condition

Operating Temperature	-10°C to 50°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5% to 95% (Non-condensing)