

Technical Specifications

miniCASTER®
Live Streaming as easy as a phone call

miniCASTER® is a MPEG-4 AVC H.264 SD/HD mobile encoder family – it comes in three different versions:

Supported features	Analog	HDMI®	SDI
SD Resolutions	X	X	X
HD Resolutions		X	X
Composite Video Input (RCA connector*)	X	X	X
S-Video Input (mini-DIN connector)	X		
HDMI Video Input		X	
SDI Video Input w/ embedded Audio (BNC connector)			X
Stereo Analog Audio Input (RCA connector*)	X	X	X
Rechargeable Battery Li-Ion 3.7V 2800 mAh (10,3 Wh)	X	X	X
Hardware De-Interlacer and Image Enhancer		X	X

* via break-out cable



SIGNAL INPUT SPECIFICATION:

Video Inputs:

Input type	Details
SD/HD/3G-SDI	0.8 VP-P, 75 Ohm (BNC, embedded audio support) (SMPTE259M, SMPTE292M, SMPTE424M)
HDMI	Type C, HDMI specification 1.1
Composite	1 VP-P, 75 Ohm
S-Video	1 VP-P (Y), 0.3 VP-P (C - Pal), 0.286 VP-P (C - NTSC), 75 Ohm

Video standards: PAL, NTSC

SDI Video Resolutions: 1920x1080p 30/29.97/25Hz, 1920x1080i 60/59.94/50Hz, 1280x720p 60/59.94/50/30/29.97/25Hz, 720x576i 50Hz, 720x480i 59.94Hz

HDMI Video Resolutions: 1920x1080p 60/59.94/30/29.97/25/24/23.97Hz, 1920x1080i 60/59.94/50Hz, 1280x720p 60/59.94/30/29.97/25/24/23.97Hz, 720x576p 50Hz, 720x576i 50Hz, 720x480p 59.94Hz, 720x480i 59.94Hz, 640x480p 59.94Hz

Audio Inputs:

Input type	Details
Stereo	unbalanced, AC coupled, Audio nominal level: -10 dBV (0,316Vrms), Maximum level: 2 VP-P, Microphone nominal level: -60 dBV (1mVrms)
SDI embedded Audio (2 channel)	SMPTE 272M, SMPTE 299M
HDMI embedded Audio (2 channel)	HDMI 1.1 compatible audio interface

ENCODING SPECIFICATION:

Simultaneously encoding of up to three concurrent live streams (total maximum bandwidth of all streams: appr. 4,5 Mbit/s over LAN)

Video Encoding: H.264 (MPEG-4 AVC Part 10; ISO/IEC 14496-10) Supported profiles: Baseline, Main-, High-; supported levels: 1.- 4.1.

Video Encoding Bitrates: 250Kb/s – 8 Mb/s, CBR, low latency enabled (single stream)

Audio Encoding: MPEG-4 AAC LC (ISO/IEC 14496-3)

Supported Sample Rates: 16/22.05/32/44.1/48 kHz (analog Audio) / 48kHz(SDI Audio, 16Bit Sample Rate, 16-128 kbit data rate)

Stream Output: MPEG2-Transportstream (ISO/IEC 13818-1) encapsulated in RTP (RFC 3550) including audio (AAC) and video (H.264)

RECORDING SPECIFICATION:

Recording: Simultaneously recording while encoding of a MPEG2-Transportstream (ISO/IEC 13818-1) including Audio (AAC) and video (H.264) on SD/SDHC card, class 6-10, Filesystem: FAT32

I/O SPECIFICATION:

Network: 10/100TX Ethernet, RJ45, half/full duplex, auto-sensing

Streaming Traffic: Unicast and Multicast traffic supported

USB: 1x USB 2.0 (on board Connector), High Speed, Type A socket

MANAGEMENT:

Full monitoring, Updates and maintenance over web based repository service (<http://my.minicaster.com>)

ENVIRONMENTAL:

Agency Approvals: CE, FCC, RoHS

Humidity: Up to 90%, non-condensing

Temperature: 0 to +35°C environment temperature, fanless

Weight: 260 grams (SD Analog), 360 grams (SD/HD SDI or HDMI)

Dimensions (H/W/D): 75mm x 125mm x 33mm

Power: 5V DC / 2.1 A (SD Analog – Micro USB), 8-24V DC / 2A (SD/HD SDI/HDMI® – Molex locking connector)