

CAPTUREBOX

Multichannel Ingest



Multichannel recording

CAPTUREBOX is our new multichannel ingest solution for professional studio environments.

It supports SD, HD and UHD signal input via IP or SDI and enables you to record multiple channels at the same time.

It essentially consists of two applications, the CAPTUREBOX client application for scheduling/control and the IngestServer that handles all the actual recording jobs.

Full ingest workflow control

CAPTUREBOX offers a customizable user interface that is easy to use and supports multiple languages.

It enables you to control your complete ingest workflow and provides multiple recording modes. You can e.g. directly start a crash recording by pressing a single button or create scheduled recording jobs that will automatically be processed at a specific time in the future.

Multiple recording modes

CAPTUREBOX offers real-time IP-based previews for all configured channels and supports Edit-While-Ingest as well as Split-While-Ingest. During recordings you can easily add descriptive metadata to the files you are ingesting. In addition CAPTUREBOX can be controlled by external applications via Advanced Media Protocol (AMP) or REST interface.

Extensive format support

It supports standard broadcast file formats and each channel can simultaneously be recorded in multiple file formats by using XML-based presets.

To ensure consistently high performance CAPTUREBOX takes advantage of techniques like local file buffer and write-through mode. For quality assurance purposes it supports failover recordings and allows you to configure master and backup ingest.

KEY FEATURES

- Multichannel client server solution
- Frame-accurate crash, batch, schedule and loop mode
- IP-based and baseband SD, HD and UHD signal input
- IP-based multichannel preview
- Single control application
- Customizable multilingual user interface
- Simultaneous multi-format recordings
- XML-based coding/recording presets
- Third party control via Advanced Media Protocol (AMP)
- Third party control via web service interface (REST)
- Edit-While-Ingest support (MXF only)
- Split-While-Ingest support
- HDF01, HDF02 compliant recording
- Local file buffer and write-through mode
- Failover recording



INGEST CLIENT (SCHEDULE AND CONTROL)	
When installed on dedicated hardware	
System type	Dedicated workstation with standard specs
OS	Windows 7 or 10
RAM	8 to 16 GB
Network	1 x 1 or 10 GbE + 1 x 1 GbE for preview
When controlled by external applications or devices	
Communication via	AMP (Advanced Media Protocol) REST interface

INGEST SERVER (PROCESSING)	
OS	Windows 7 or 10
RAM	16 to 64 GB
Network	2 x 1 GbE + 2 x 10 GbE
Graphics memory	2-4 GB GDDR5
IO throughput	Up to 1.5 GB/s
HDD capacity	3 to 20 TB

INPUT / OUTPUT	
Audio / Video	
SD-SDI	SMPTE 259M
HD-SDI	SMPTE 292M
6G / 12G UHD-SDI	SMPTE ST 2081 / SMPTE ST 2082
IP	PTP accordingly to IEEE 1588, SMPTE 2022-6 and SMPTE 2022-7
Resolutions and frame rates (SDI)	
SD	576i @ 25 x 720 480i @ 29.97 x 720, 704
HDV	720p @ 50, 59.94 x 1280
HDTV	1080i @ 23.976 24 25 29.97 30 50 59.94 60fps x 1920
UHD	2160p @ 23.976 24 25 29.97 30 50 59.94 60fps x 3840
Resolutions and frame rates (IP@10GigE)	
HD	1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 1080PsF 23.98, 24, 25, 29.97, 30 1080i 25, 29.97 720p 50, 59.94, 60
SD	625i 25, 525i 29.97
Recording channels	
SD	8
HD	4-6
UHD	1-2

Recording formats	
HD	XDCAM HD, AVC-Intra
UHD	XAVC-I Class 100, 300 Single file
Container	MXF OP1a

SERVER	
Physical dimensions	
H x W x D	3.41 x 17.0 x 28.37 in (29.78 in with bezel), 2U 86.8 x 434.0 x 720.8 mm (756.5 mm with bezel), 2U
Weight	min. 55 lb (25 kg)
Power	
Input	100 V to 240 V, 12 A to 6.5 A, 50 Hz to 60Hz
Wattage	1023 W on 100 VAC to 120 VAC, 1100 W on 200 VAC to 240 VAC
Maximum heat dissipation	4774 BTU/hr
Environmental	
Operating temperature	50 °F to 95 °F (10 °C to 35 °C)
Storage temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Relative humidity	20 % to 80 % (noncondensing)
Quality mark	CE
Safety compliance	IEC 60950-1, EN 60950-1
EMC compliance	CISPR 22 / CISPR 24, EN 55022 / 55024
RoHS compliance	EU RoHS Directive 2011/65/EU

