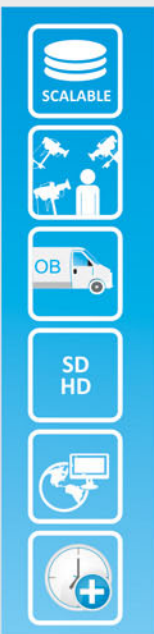




# SD/HD-SDI RECORDER



**EDIT WHILE CAPTURE** allowing clips to be worked right away in editors, even while the system is recording.

**MULTI-CAMERA MANAGEMENT** with Gang Control and no need for extra automation systems.

**SCHEDULING ENGINE** capturing your live-feeds at any time and date.

**BUILT-IN VTR CONTROLLER** making batch capture a simple task.

**MULTI FORMAT** encoding in all major broadcast formats.

**MULTI RESOLUTION** with simultaneous generation of hi-res and proxy versions.

**MULTIPLE DESTINATIONS and FLEXIBILITY** generating MXF, Avid and Quicktime files simultaneously, for complex workflows.

**METADATA ANNOTATION ENGINE** to ease the proper identification of material, saving your time and money.

**SCALABILITY and RELIABILITY** in compact units with unlimited expansion and optional fallback storage.

**REMOTE ACCESS and CONTROL** using a web-based GUI, allowing to control the system anytime and anywhere.

## MAIN APPLICATIONS

- OB vans Production
- Live and Remote Production
- Multi-Camera Production
- Sport Highlights
- News Production

*«With mxfsPEEDRAIL centralized solutions we were able to upgrade our facilities to a faster, flexible and reliable HD workflow system. Besides covering all our technical requirements, mxfsPEEDRAIL also presented itself as the most cost-effective solution.»*

Peter Dimitrov, bTV Technical Director.



Find more at: [www.mog-technologies.com](http://www.mog-technologies.com)

# SD / HD-SDI RECORDER



Edit while capture with full control and monitoring of your workflow!

## USER INTERFACE



## GENERAL OVERVIEW

LIVE-FEEDS, MULTI-CAMERA, GANG CONTROL, VTR

SCHEDULE, METADATA, VTR CONTROL

EDIT WHILE CAPTURE



## FORMATS

### HIGH RESOLUTION VIDEO CODEC

- Support for 50 and 59.94 Hz systems (8 or 10 bits)
- XDCAM™ - IMX (30,40,50 Mbps)
- XDCAM™ HD - MPEG2 420 (18, 25, 35 Mbps), 422 (50Mbps)
- DVCAM SD (25Mbps)
- DVCPRO SD (25 and 50 Mbps)
- DVCPRO HD (100 Mbps)
- DNxHD® (120,145,185,220 Mbps)
- AVC-I (50 and 100 Mbps)
- ProRes 422

### AUDIO

- PCM (16 or 24 bits @ 48KHz)
- Audio monitoring and VU meter
- Up to 12 channels of embedded audio(SMPTE 272M / SMPTE 299M)

### WRAPPERS

- MXF OP1a (SONY Compatible)
- MXF OPAtom (Avid native)
- Quicktime (.mov for Final Cut Pro)

## MULTI-RESOLUTION

### INPUTS

- SDI (SMPTE 259M)
- HD-SDI (SMPTE 259M / SMPTE 292M)

### OUTPUTS

- 1 or 2 full resolution clips per channel
- 1 or 2 proxy resolution clips per channel

### PROXY ENCODING

- Avid™ MPEG2 (SIF - Source Input Format @ 2Mbps)
- MPEG4 part 2 (SIF @ 2Mbps)
- H.263 (Web Interplay)

## TIMECODE

- LTC (SMPTE 12M)
- VITC (SMPTE RP188)
- Time of day
- From VTR (BVW)

## WORFLOW ENVIRONMENTS



### STUDIO RECORDER - S1000 series



### HIGH PERFORMANCE & HIGH AVAILABILITY SYSTEM

- Multi-format and multi-wrapper
- Multi-resolution, easing multi-camera operations
- Record into any kind of shared storage
- Edit-while-capture, both in Avid and Final Cut Pro
- Number of channels expandable to any configuration
- Up to 4 simultaneous formats per channel, both as .mov and .mxf
- Gang control for multi-camera recordings
- User-defined program metadata and event driven metadata (locators)

### OB RECORDER - S1100 series



### STANDARD PERFORMANCE SYSTEM

- OB with immediate highlights through edit-while-capture on NLE
- Control and monitoring using just a web-browser
- Optional e-SATA storage for extra reliability and flexibility
- Compact design, perfect for space/weight sensitive installations
- Preview and monitoring of video and audio, including VU meter
- Frame-accurate offline batch capture

### SDI RECORDER - S101x and S111x series



### SPECIFIC FORMATS / WRAPPERS SYSTEM

- Output of MXF OP1a, Avid OPAtom or QuickTime (.mov)
- Cost-effective models for specific formats
- Multi-resolution workflows with real-time proxy generation
- Up to 4 destinations per channel, with independent wrappers and resolutions
- Built-in VTR controller for batch capture
- Easy integration with MAM and Automation systems
- Optional check-in of media and metadata into Avid Interplay

## METADATA

- User defined metadata templates with unicode support
- Real time metadata, by setting user-defined locators
- Avid specific metadata fields (e.g. title or annotation)
- Closed Caption VANC - SMPTE 436M

## ASSET MANAGEMENT

- Avid Interplay™ checkin via Interplay Web Services
- AAF output for standalone Avid editors
- XML metadata output for non-avid workflows
- Multiple metadata deliveries per destination

## CAPTURE MODES

- Crash record using local interface, web browser or BVW/VDCP
- Scheduled capture based on time-of-day
- Online and Offline VTR batch capture

## CONTROL

- BVW/VDCP Protocol Support
- VTR control (BVW)
- Remote web based interface
- Local user interface
- SOAP interface (web services)
- Gang Channel Control (with automatic neighbors detection)

## SUPPORTED STORAGE

- Avid Unity™ MediaNetwork
- Avid Unity™ ISIS
- Omneon MediaGrid™
- Any generic shared storage
- Removable e-SATA drives

	S5xx	S10xx	S102x	S111x	S112x
<b>INPUTS</b>					
1 channel SDI (SMPTE 259M)	XD models DV models	XD.SD models DV.SD models		XD.SD models DV.SD models	
1 channel HD-SDI (SMPTE 259M / SMPTE 292M)		XD.HD models DV.HD models DN.HD models		XD.HD models DV.HD models DN.HD models	
2 channels SDI (SMPTE 259M)	XD models		XD.SD models		XD.SD models
2 channels HD-SDI (SMPTE 259M / SMPTE 292M)			XD.HD models		XD.HD models
<b>AUDIO CHANNELS</b>					
Number of embedded audio channels (per channel)	8	12	12	8	8
<b>TIMECODE</b>					
LTC (SMPTE 12M)	✓	✓	✓	✓	✓
VITC (SMPTE RP188)	✓	✓	✓	✓	✓
Time of day	✓	✓	✓	✓	✓
From VTR (BVW)	✓	✓	✓	✓	✓
<b>FORMATS</b>					
HD: 720p50; 720p60; 1080i50; 1080i60; 1080p25; 1080p30; 1080p24	✓	✓	✓	✓	✓
Support for 50 and 59.94 Hz systems	✓	✓	✓	✓	✓
SD IMX (30, 40, 50 Mbps)	XD models	XD.SD models	XD.SD models	XD.SD models	XD.SD models
Sony XDCAM™ HD - MPEG2 4:2:0 (18,25,35) and 4:2:2 (50Mbps)	XD models	XD.HD models	XD.SD models	XD.HD models	XD.HD models
DVCAM SD (25 Mbps)	DV models	DV.SD models	DV.SD models	DV.SD models	DV.SD models
DVCPRO SD (25 and 50 Mbps)	DV models	DV.SD models	DV.SD models	DV.SD models	DV.SD models
DVCPRO HD (100 Mbps)		DV.HD models	DV.HD models	DV.HD models	DV.HD models
AVC-I (50 and 100 Mbps)		AV.HD models	AV.HD models	AV.HD models	
Avid DNxHD® (120, 145, 185, 220 Mbps)		DN.HD models	DN.HD models	DN.HD models	
Apple ProRes 422 SD		PR.SD model		PR.SD model	
Apple ProRes 422 HD		PR.HD model		PR.HD model	
<b>OUTPUTS</b>					
Proxy resolution file creation	Optional	Optional	Optional	Optional	Optional
Full resolution file creation	✓	✓	✓	✓	✓
<b>DATASTREAM</b>					
Closed Captions (S 436M)	✓	✓	✓	✓	✓
<b>PROXY ENCODING</b>					
Avid MPEG2 (SIF @ 2Mbps)	Optional (S520   S522)	Optional	Optional	Optional	Optional S1122
MPEG4 part 2 (SIF @ 2Mbps)	Optional	Optional	Optional	Optional	Optional S112x
Proxy H.263 (Web Interplay)	Optional (S520   S522)	Optional	Optional	Optional	Optional S1122
<b>METADATA</b>					
Avid defined metadata fields and essence locators	S520   S522	S1010   S1012	S1020   S1022	S1110   S1112	S1120   S1122
User defined Metadata fields	✓	✓	✓	✓	✓
<b>ASSET MANAGEMENT</b>					
Avid Interplay™ checkin via Interplay Web Services	S520   S522	S1010   S1012	S1020   S1022	S1110   S1112	S1120   S1122
AAF output for standalone Avid editors	S520   S522	S1010   S1012	S1020   S1022	S1110   S1112	S1120   S1122
XML metadata output for non-Avid workflows	S521   S522   S523	S1011   S1012   S1013	S1021   S1022   S1023	S1111   S1112   S1113	S1121   S1122   S1123
<b>WRAPPERS</b>					
MXF OPAtom (Avid native)	S520   S522	S1010   S1012	S1020   S1022	S1110   S1112	S1120   S1122
MXF OP1a (Sony-compatible)	S521   S522	S1011   S1012	S1021   S1022	S1111   S1112	S1121   S1122
QuickTime (.mov for Final Cut Pro)	S522   S523	S1012   S1013	S1022   S1023	S1112   S1113	S1122   S1123
<b>ATTACHED STORAGE</b>					
e-SATA plug	Optional	Optional	Optional	Optional	Optional
<b>USER INTERFACE</b>					
Web video monitor (H.264)	Optional	✓	Optional	Optional	Optional