

Product Sheet

MediaRec

Base-Band Ingest automation Application Module

SI MEDIA s.r.l.

HeadQuarters: Via Vostanza, 5 - 31039 Riese Pio X (TV) - Italy

T +39 0423 750075 **F** +39.0423 750150 **E** info@si-media.tv

www.si-media.tv

 @SIMedia1978

 SI Media

APAC Branch Office: 21 Serangoon North Ave 5, #06-04

Ban Teck Han Building, 554864 Singapore

T +65 8432 5394

MediaRec

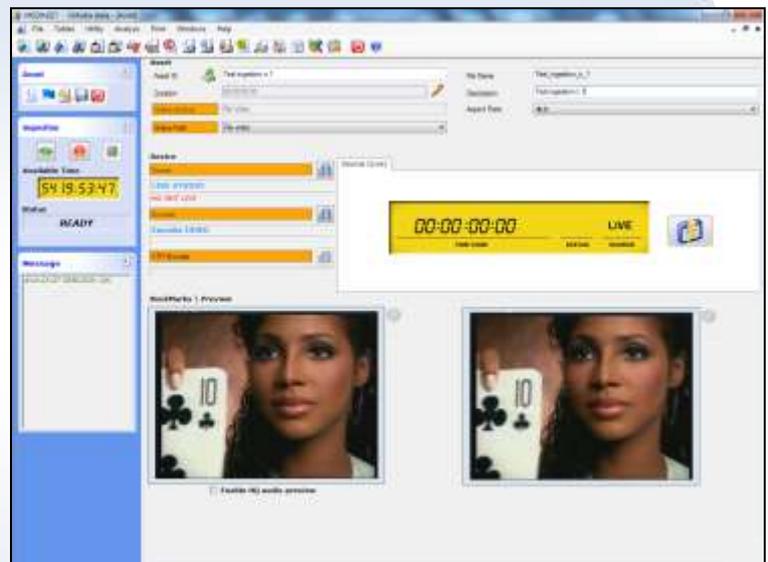
MediaRec is the SI Media application for manual and automatic scheduling of video signal ingest from VTR, satellite and live feeds.

At the same time of doing the video ingest it's also possible to add metadata for the new assets and to see the signal preview (video and audio) that it's going to be captured.

The application can also control the available encoders (local or remote) and manage at the same time the high-quality and the low-resolution (i.e. proxy) encoding of the new asset. **MediaRec** also controls remotely devices such as VTRs, Cart Machines and Audio/Video Routers for the automatic assignment of the video source that is going to be recorded.

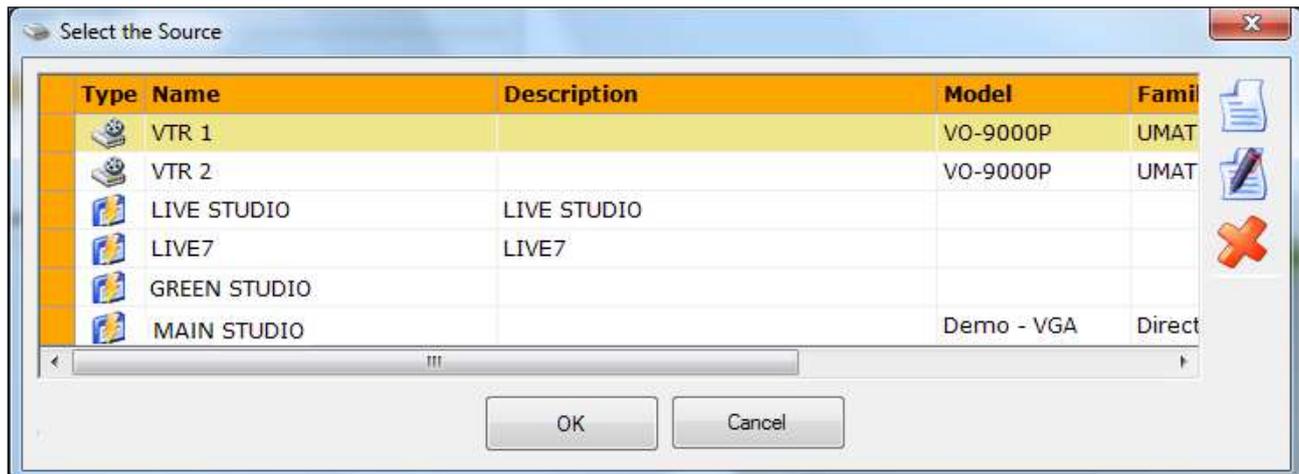
Key Features:

- **Automatically control one or more A/V Routers or Matrix**
- **Remote Control of VTRs and Cart Machines**
- **Audio/Video preview while ingest for monitoring and real time verification**
- **Metadata input for MAM application**
- **Define automatic encoding sessions**
- **Check of the ingest sessions**
- **Encoders and video formats**
- **Edit/Play while ingest with AJA board**
- **Simultaneous creation of different formats of the same file while ingest**



Automatically control one or more A/V Routers or Matrix

MediaRec is able to control, thru the module **MediaDevice**, one or more A/V Routers: in this way the operator can select the audio/video source he wants to capture and the switching on the matrix will be done automatically. At this point the audio and video preview allow to check and confirm the selected source.



(MediaRec, Source selection window)

Remote Control of VTRs and Cart Machines

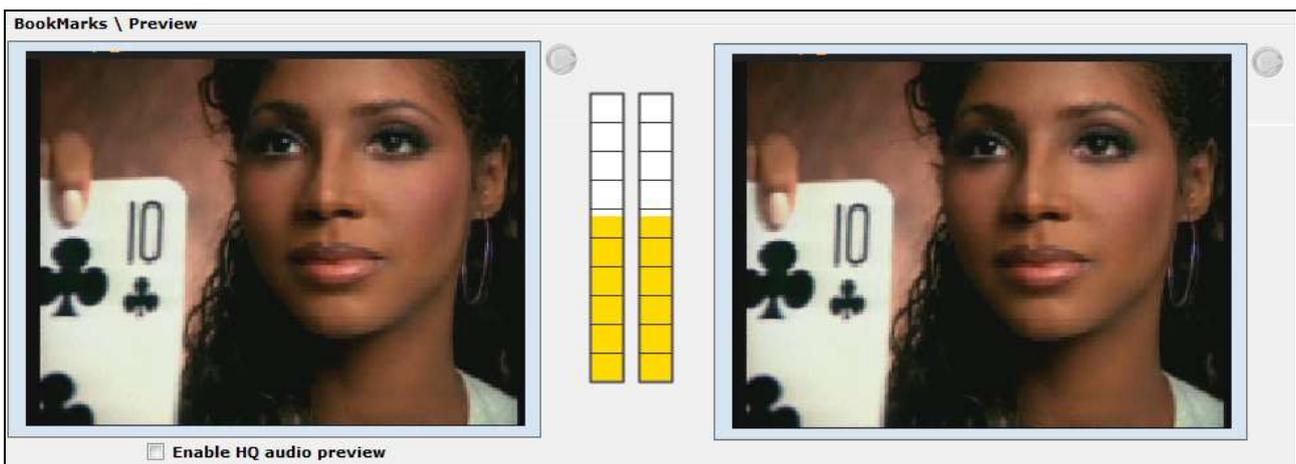
In **MediaRec** it's possible to select a VTR and control it remotely as recording source. The application allows to do single or multiple recordings from the same tape, automating the ingest process of more clips from the same tape.



(MediaRec, remote control of a VTR as ingest source)

Audio and Video preview while ingest

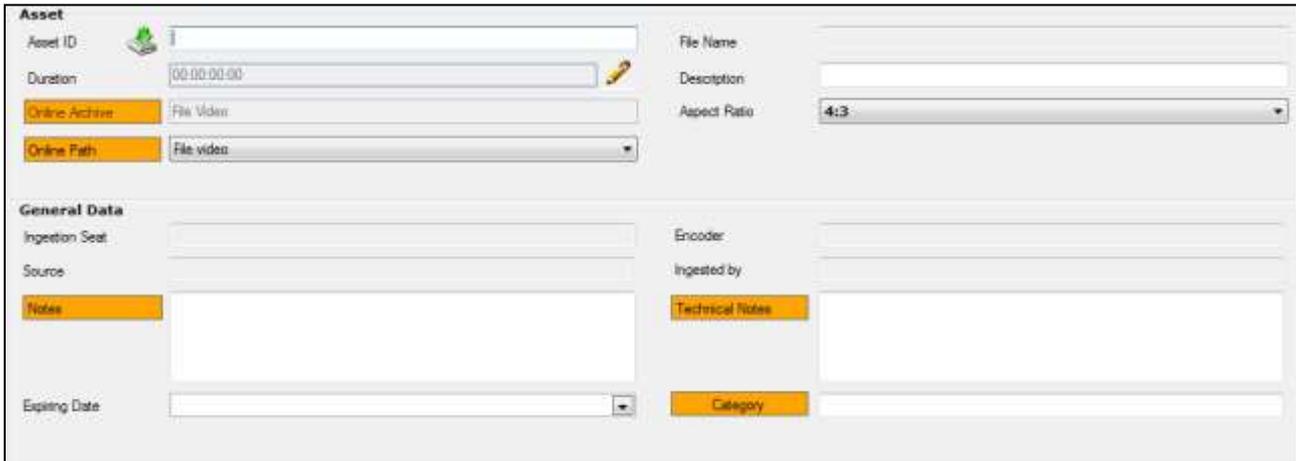
MediaRec allows to monitor the audio and video signal that the encoder is receiving before, while and after the ingest process; in this way the encoding session can be configured at best choosing the correct source and adjusting the peak meter for the audio levels.



(MediaRec, Audio and video preview during the ingest)

Metadata input for MAM application

With **MediaRec** GUI it's possible to add metadata, before and during the ingest process. Also the same metadata screen can be edited, changed, etc.

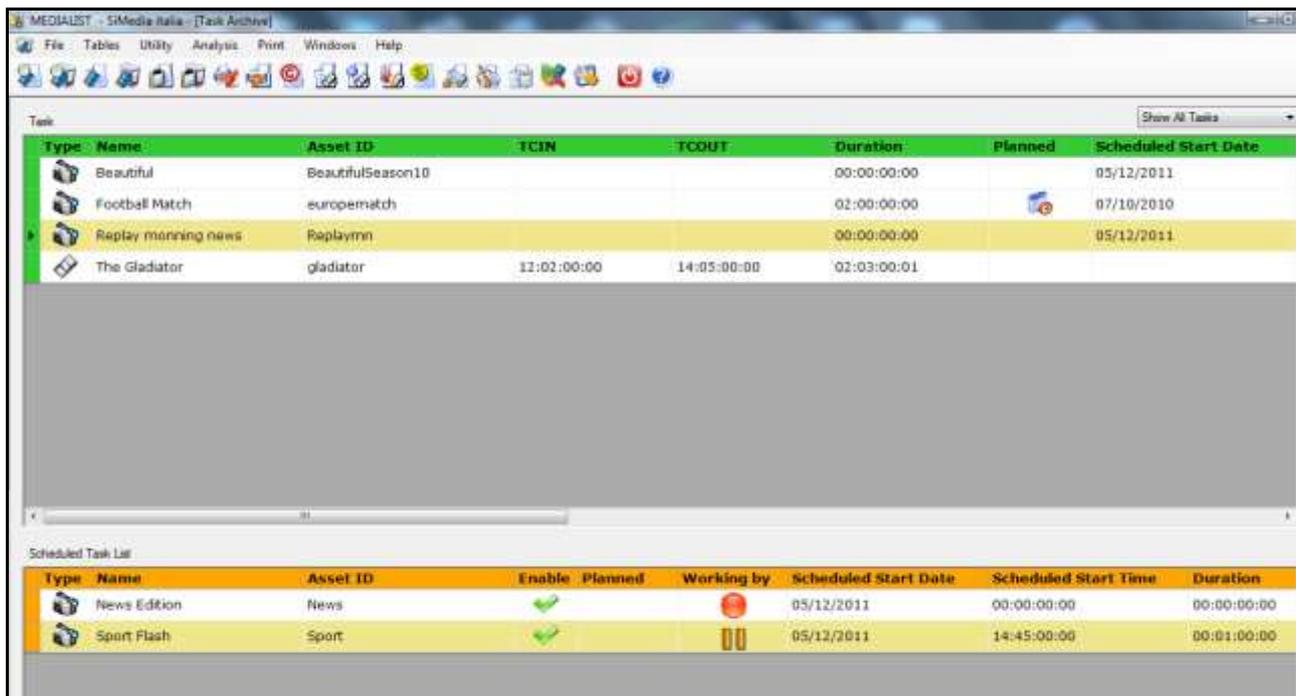


The screenshot shows the 'Asset' metadata input form in MediaRec. It includes fields for Asset ID, Duration (00:00:00:00), File Name, Description, Aspect Ratio (4:3), Online Archive (File Video), Online Path (File video), General Data (Ingestion Seat, Source, Notes), Encoder, Ingested by, Technical Notes, Expiring Date, and Category.

(MediaRec, Metadata insertion)

Define automatic encoding sessions

MediaRec can schedule the encoding sessions (Tasks) to record at fixed times and dates. The planning can be daily, weekly or monthly. In any moment it is possible to edit a task, for example the operator can stop it or change the start or the end time.



The screenshot shows the 'Task Archive' window in MediaRec. It displays a table of tasks with columns: Type, Name, Asset ID, TCIN, TCOUT, Duration, Planned, and Scheduled Start Date. Below the main table is a 'Scheduled Task List' table with columns: Type, Name, Asset ID, Enable, Planned, Working by, Scheduled Start Date, Scheduled Start Time, and Duration.

Type	Name	Asset ID	TCIN	TCOUT	Duration	Planned	Scheduled Start Date
Beautiful	BeautifulSeason10				00:00:00:00		05/12/2011
Football Match	europematch				02:00:00:00		07/10/2010
Replay morning news	Replaymn				00:00:00:00		05/12/2011
The Gladiator	gladiator		12:02:00:00	14:05:00:00	02:03:00:01		

Type	Name	Asset ID	Enable	Planned	Working by	Scheduled Start Date	Scheduled Start Time	Duration
News Edition	News		✓			05/12/2011	00:00:00:00	00:00:00:00
Sport Flash	Sport		✓			05/12/2011	14:45:00:00	00:01:00:00

(MediaRec, Task archive)

Check of the ingest sessions

At each **MediaRec** workstation it's possible to monitor at any time all the scheduled sessions in the entire system to check if everything is ok.



The screenshot shows a window titled 'MEDIALIST - SI Media Italia - Ingestions in progress'. The window contains a table with the following columns: Type, Workstation, User/Operator, File Name, Task, Status, Start Ingestion, Stop Ingestion, and Asset ID. The table lists six ingestions, all with a status of 'In Progress' (indicated by a red circle with a white 'P').

Type	Workstation	User/Operator	File Name	Task	Status	Start Ingestion	Stop Ingestion	Asset ID
MediaRec1	MediaRec1	Mark Holley	Test_ingestion_23		In Progress	05/12/2011 14:29:32		Test ingestion n.23
MediaRec2	MediaRec2	Anna Matre	Test_ingestion_34		In Progress	05/12/2011 14:29:32		Test ingestion n.34
MediaRec3	MediaRec3	Sarah Manesse	Test_ingestion_1		In Progress	05/12/2011 14:29:32		Test ingestion n.1
MediaRec7	MediaRec7	Kally Roman	Test_ingestion_12		In Progress	05/12/2011 14:29:32		Test ingestion n.12
MediaRec4	MediaRec4	Jim Big	Test_ingestion_50		In Progress	05/12/2011 14:29:32		Test ingestion n.50
MediaRec6	MediaRec6	Barbara Lah	Test_ingestion_7		In Progress	05/12/2011 14:29:32		Test ingestion n. 7

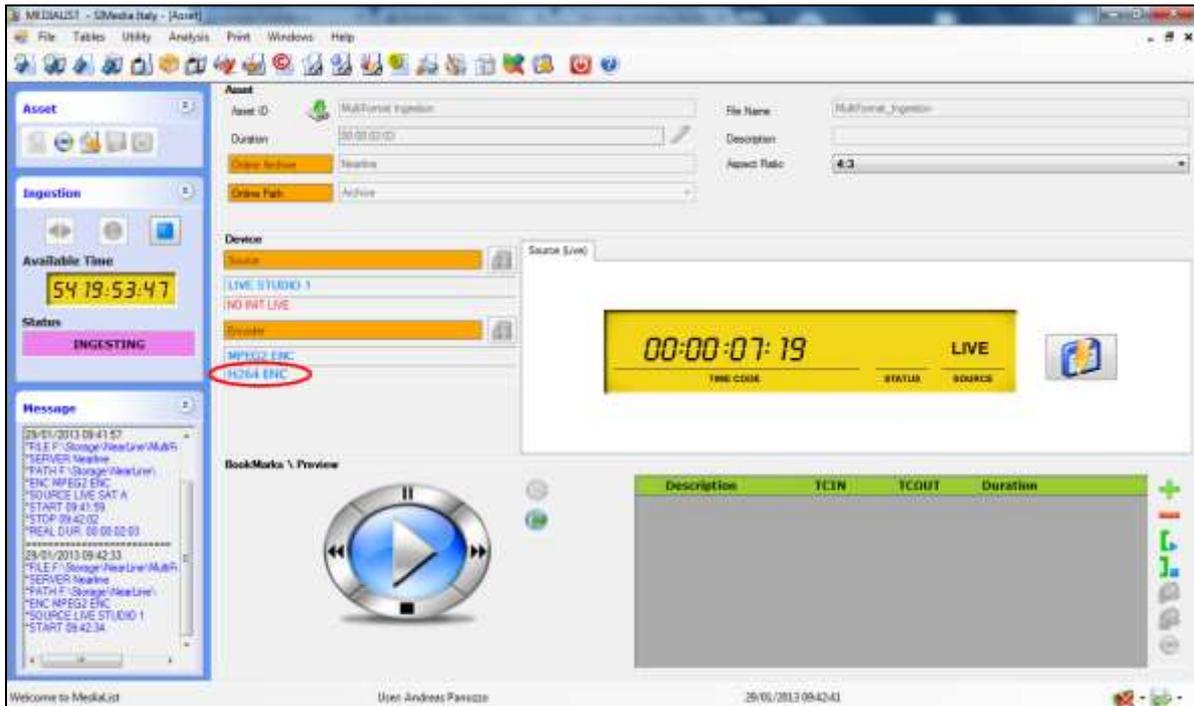
(MediaRec, ingest tasks in progress)

Edit/Play while ingest with AJA board

With **MediaRec** it is possible to edit the clip during the ingestion session and also to put the content on air while the ingestion session is not closed yet. This solution is always available using AJA boards or video servers that support this function.

Simultaneous creation of different formats of the same file while ingest

MediaRec can manage the creation of different formats of a single file simultaneously during the ingestion session. It can be for example the creation of the HQ copy of the content and at the same time the low-res.



(MediaRec, multi-ingest tasks in progress)

Encoders and video formats

MediaRec is the SI Media application for the ingest process. The encoding process needs a physical ENCODER. There are two different types of encoders: the first type is a capture card installed in the same machine where **MediaRec** runs, the second one is inside an external Video Server.

The main Video Servers **MediaRec** is able to control are:

- OMNEON (now HARMONIC)
 - Spectrum (including Channel Port and Media Center)
 - MediaDeck
- HARRIS
 - NEXIO
- EVS
 - XT
 - XS
- GRASS VALLEY
 - K2
- DVS
 - Venice
- XOR-MEDIA
 - MediaClient
 - MSV-1200

SI Media's versatility lets the customer choose the best solution for himself.

In the IT solutions proposed by SI Media we usually use AJA Video System boards; AJA Corvid, AJA Corvid22 and AJA LHe+ are the models used for the automation. AJA LHe+ board has analog and digital\SDI input that can be used at the same time. The AJA Corvid, AJA Coirvid22 and AJA LHe+ models can support both the SD and the HD format.

The image shows an AJA OEM-LHe+ video board.



These are the specifics of AJA Boards we use for ingest process.

SPECIFICATIONS

OEM-LH

PCI and PCI-X compatible

OEM-LHe

PCIe 4-lane compatible

Video Input

Digital:
HD-SDI/SDI, SMPTE-259/292/296
Analog:
SD and HD Input, BNC
HD: YPbPr, RGB
SD: YPbPr, RGB (component mode)
Composite/YC (composite mode)
12-bit A/D

Video Output

SD and HD Output, BNC
YPbPr, RGB
SD: YPbPr, RGB (component mode)
Composite/YC (composite mode)
12-bit D/A

Video Formats

SD:
525i 29.97
625i 25

HD:
720p 50
720p 59.94
720p 60
1080i 25
1080i 29.97
1080i 30
1080p 23.976
1080psf 23.976
1080p 24
1080psf 24
1080p 25
1080psf 25
1080p 29.97
1080psf 29.97
1080p 30
1080psf 30

Audio Input

2-channel 16/24/32-bit AES/EBU
sample rate
synchronous or Non-synchronous
digital sample rate conversion)
16/24/32-bit SMPTE-259 SDI embedded
audio, 8-Ch, 48kHz synchronous
Analog:
2-channel balanced input
+24dbu Full Scale Digital
16/24/32-bit A/D, 48 KHz sample rate
+/- 0.2db 20 to 20 KHz Frequency Response

Audio Output

Digital:
2-channel 16/24/32-bit AES/EBU, 48KHz
sample rate
16/24/32-bit AES/EBU, 48 KHz sample rate
16/24/32-bit SMPTE-259 SDI embedded
audio, 8-Ch, 48 KHz synchronous
Analog:
2-channel balanced output
+24dbu Full Scale Digital
16/24/32-bit D/A, 48 KHz sample rate
+/- 0.2db 20 to 20 KHz Frequency Response

Down-Conversion

Hardware 10-bit output, 16/24/32-bit internal
processing
Anamorphic: full-screen
Letterbox: image is reduced with black top
and bottom added to image area with the
aspect ratio preserved
Crop: image is cropped horizontally

Machine Control

RS-422, Sony 9-pin protocol Connector pro-
vided on OEM-LH/LHe breakout cable and
on optional KL-Box.

Reference

Analog Color or HD Tri-level
1 BNC on standard breakout cable (75 ohm
terminating)
KL-Box (optional): 2 BNCs, passive loop