Technical Document – Release Version 1.0

Product Sheet

MediaLogger

Digital Logger
Application Module

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MediaLogger

MediaLogger is the SI Media application oriented to answer the needs for media monitoring, for marketing purposes, regulatory control (compliance or legal copy), "open intelligence", etc.

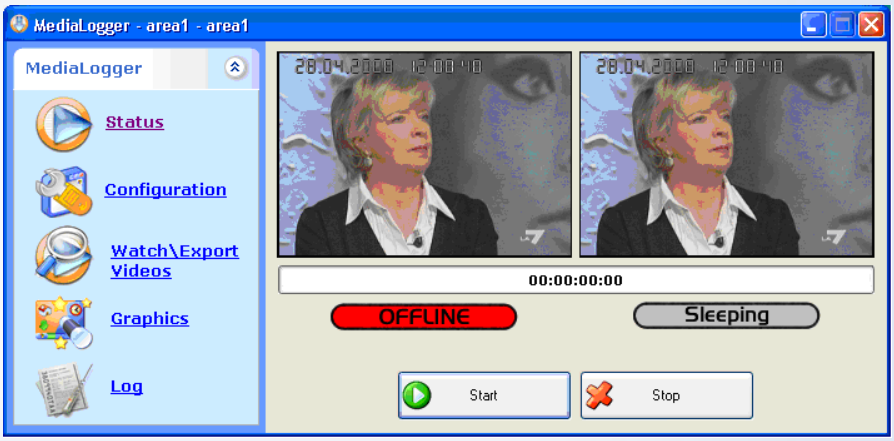
System is defined to capture an audio/video signal (analog or SDI) 24 X 7 and can be programmable by date and time, codec and bit rate of encoding and storage length (depending on assigned storage).

Other features are water mark for time, date and graphics.

Both the SD and HD formats are supported.

Key Features:

- **Multichannel architecture**
- **Automatic storage of recorded video**
- **Search and browsing of recorded video**
- **User-definable recording codec and quality**
- **Water Mark**
- **Export to DVD**
- **Integrated with other SI Media modules**



Multichannel architecture

Each machine supports up to 4 Channels. Analog and SDI input are managed. SD and HD formats are supported.
The architecture of the machine usually includes 2 hard disks configured in RAID-1, but, on request, it is possible to include more disks in RAID-5 or 6.

Automatic storage of recorded video

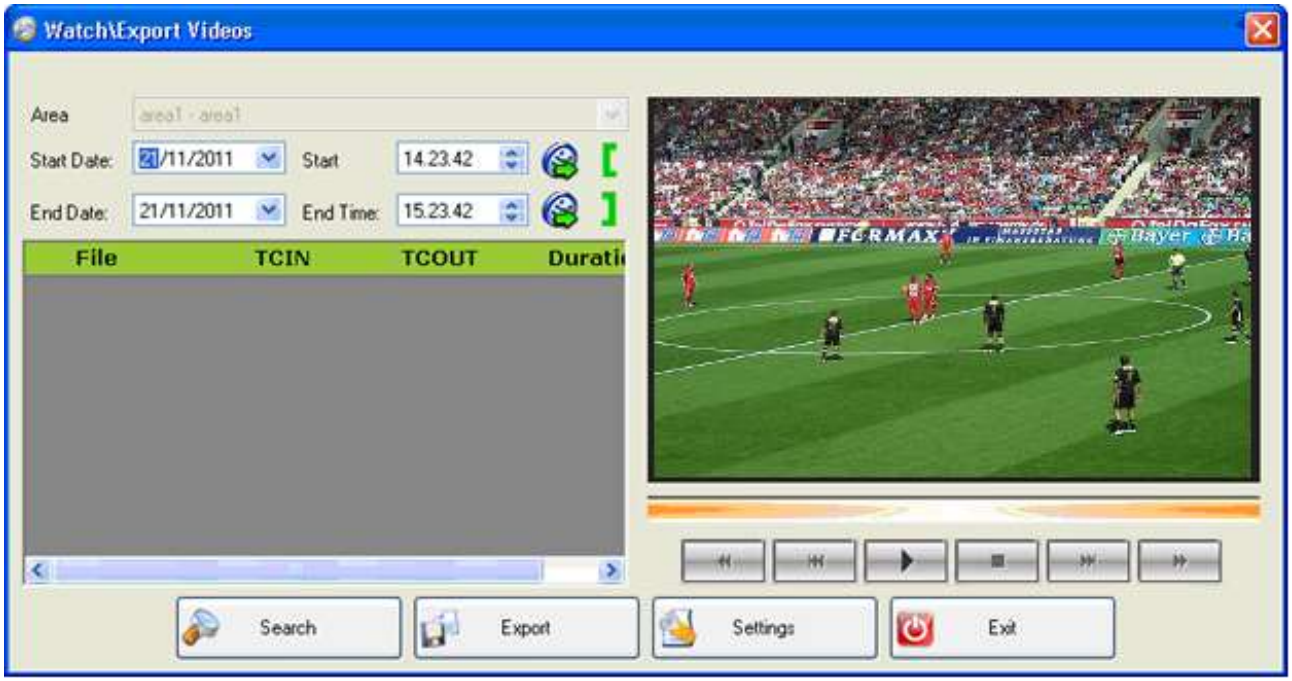
The storage of the recorded video is completely automatic. User can decide the duration of the recorded files; as per default configuration the software is set to record files lasting up to 1 hour.

After a defined number of days, **MediaLogger** automatically starts the loop from the first day. Otherwise, in order to not delete files these can be moved automatically (managed by **MediaLogger**) in a proper external archive.

By *defaults* **MediaLogger** is set to record for 90 days, but can be set up to 180 days or more (according to local regulations).

Search and browsing of the recorded video

MediaLogger includes the search and display of recorded video.



(MediaLogger, search and display recorded video)

Search is done for all recorded channels: it is possible to filter by channel, date and time. Another feature allows the export of a file, or part of it, to an external removable media (CD-ROM, DVD, external disk USB, etc.).

All the recorded files are divided into folders that make it easier to find a specific video; search and display can be done from every machine in the network by accessing through *username* and *password* to the folders that contain recorded videos.

User-definable recording codec and quality

User can decide the recording quality starting from a *default* value of 512 Kb/sec.
MediaLogger allows the user selection of the bit rate (between 128 Kbps and 1.5 Mbps) and of the format: the default one is WMV 9 but also MPEG1, MPEG2, MPEG4 and H-264/AVC are supported.

Inputs

The Video Capture Card must be chosen in relation to the signal type and to the number of channels to record on the same machine. With analogical signal, OSPREY 460e, that allows recording up to 4 channels on the same machine, is used. With digital signal, instead, AJA CORVID 22 is used; it allows recording at most 2 channels for PC. If it is necessary to record only a channel, OSPREY 230 is used for analogical signal and AJA CORVID is used for digital signal. The characteristics of these last cards are similar to those of the models shown.

Below the detailed characteristics of the two cards most used in **MediaLogger**.

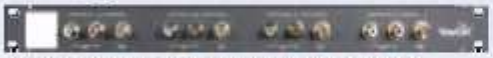
OSPREY® 460e

Video Capture Card

PCI EXPRESS

Optional Breakout Audio and Video Panels

95-00460 Osprey 400 Series Breakout Panel



1 x 1RU 4 channels composite and 4 stereo channels unbalanced audio

95-00462 Osprey 400 Series Balanced Audio Panel

1 x 1RU 4 stereo channels balanced stereo audio inputs (*XLR*)

95-00463 Osprey 400 Series Component Video Panel

1 x 1RU 4 channels component, Y/C (*S-Video*) video input or 12 additional composite video inputs

Breakout Cable (*included*)

Driver Support:

- Microsoft® DirectShow® API

Inputs:

Video:

- 4 composite (*BNC x 4*)
  (*BNC - RCA adapters included*)
  (*additional BNC x 12 optional*)
- 4 Y/C (*BNC x 8*) (*optional*)
- 4 component (*BNC x 12*) (*optional*)

Audio:

- 4 Unbalanced stereo (*RCA x 8*)
- 4 Balanced stereo (*XLR x 8*) (*optional*)

Video Format:

- NTSC/PAL

Connectivity:

PCIe (*x 1*):

- Slots: x 1, x 4, x 8, or x 16
- PCIe 2.0

Pre-Processing:

- Logo/bitmap overlay
- Closed-caption extraction/rendering
- Scaling, cropping, de-interlacing and inverse telecine
- Loss of video automatic test pattern generation with text overlay option

Dimensions:

- Full-height / half-length board
- 6.60" L x 4.38" H
  (*16.77 cm L x 11.12 cm H*)

Hardware Warranty:

- 1 year limited hardware warranty

System Requirements:

- Video capture requires intense bandwidth across the system bus, CPU, and memory. North Bridge PCIe slots are strongly recommended.
- Multi-core processors are recommended to run video applications.

RoHS compliant

Windows Media

OEM Product Information

Corvid 22

PCIe 4x Card for 8/10-bit Uncompressed
with 2 Independent Channels I/O
Digital 3G, HD, SD-SDI I/O

SPECIFICATIONS

Corvid 22
PCI Express 4 lane

2 Video Inputs
Digital:
3G/HD/SD-SDI, SMPTE-259/292/296/424

2 Video Outputs
Digital:
3G/HD/SD-SDI, SMPTE-259/292/296/424

2 Audio Inputs
Digital:
16-channel 24-bit SDI embedded, 48KHz synchronous

2 Audio Outputs
Digital:
16-channel 24-bit SDI embedded, 48KHz synchronous

2 Independent LTC In/Out
2 Independent RS-422

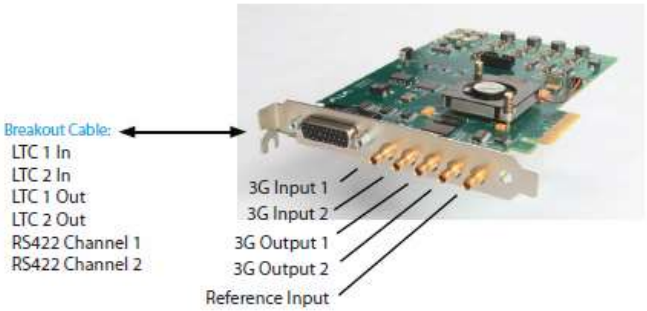
Video Formats
SD:
525i 29.97
625i 25

HD:
720p 50
720p 59.94
720p 60
1080i 25
1080i 29.97
1080i 30
1080PsF 23.98
1080PsF 24
1080PsF 25
1080PsF 29.97
1080PsF 30
1080P 23.98
1080P 24
1080P 25
1080P 29.97
1080P 30
1080P 50
1080P 59.94
1080P 60

2K:
2048 x 1080P 23.976
2048 x 1080PsF 23.976
2048 x 1080P 24
2048 x 1080PsF 24
2048 x 1080P 25
2048 x 1080PsF 25

Reference
Analog Color Black
or HD Tri-level sync

CORVID 22 CARD CONNECTIVITY



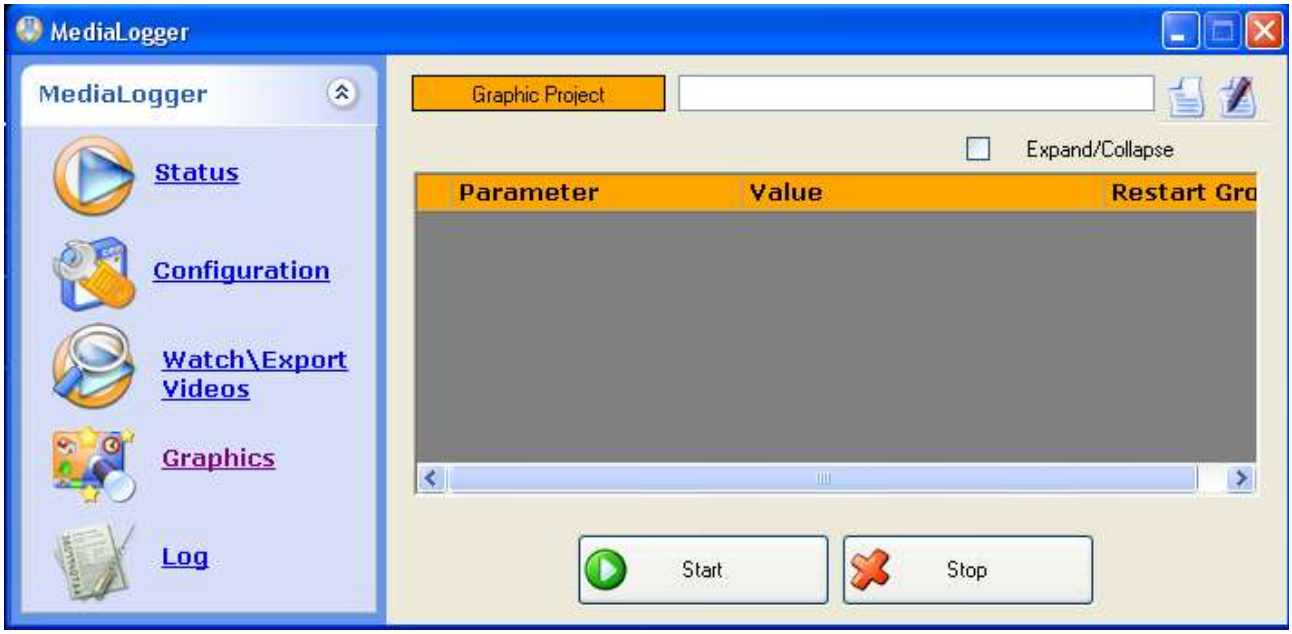
Water Mark

There are 2 types of graphics that can be superimposed to the recorded videos.

The first graphic is the *default* one and contains date and time in *standard* format. It can be edited from the user.

The second one is a graphic *plug-IN* that allows superimposing of any kind of graphics to the video signal.

In this way it is possible to link a particular graphic project to the recording of a particular channel and so superimpose Channel or Station name, other logos, crawl, etc.



(MediaLogger, setting of the graphics to superimpose to recorded video)

Export to DVD

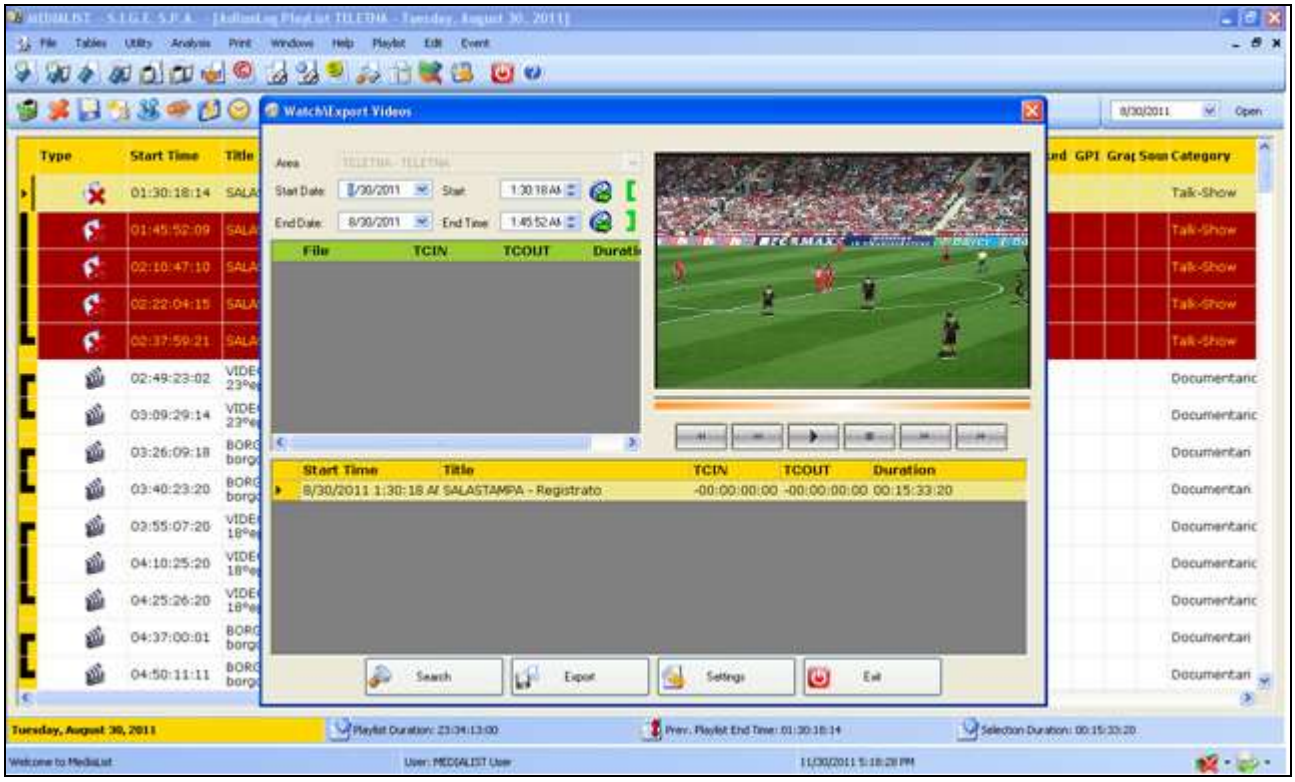
MediaLogger includes a DVD writer in order that selected files can be quickly exported to a digital removable media.

(MediaLogger, export of selected file to DVD)

Integrated with SI Media automation

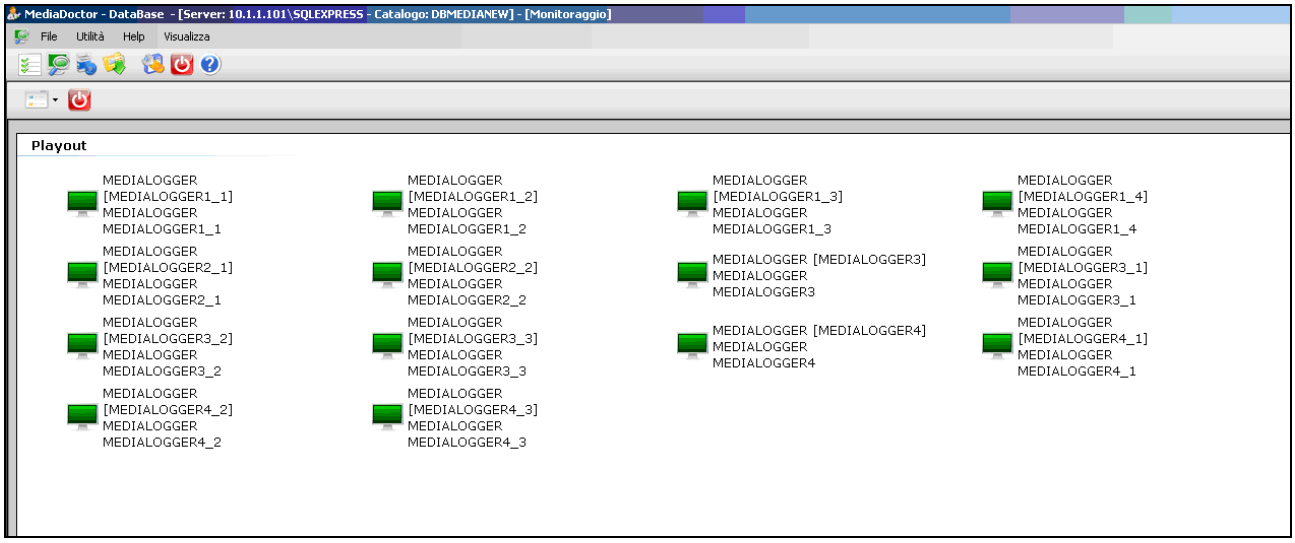
MediaLogger is perfectly integrated with the automation software created by SI Media.

MediaList, the SI Media traffic module, provides a direct link between the As-Run-Log and video contents captured and stored by **MediaLogger**. It allows verifying content aired and exporting selected files to an external removable media (CD-Rom, DVD, etc.).



(MediaList, consultation of As-Run Log playlist and cross-check with recorded video)

MediaLogger is also integrated with **MediaDoctor**, another SI Media module, which allows a continuous monitoring of functionalities of **MediaLogger**, by sending alarms via e-mail or sms if it is not working properly (signal lost, file size doesn't increase, program hanging, etc.).



(MediaDoctor, monitoring of MediaLogger)