



## Description

### Hardware specifications

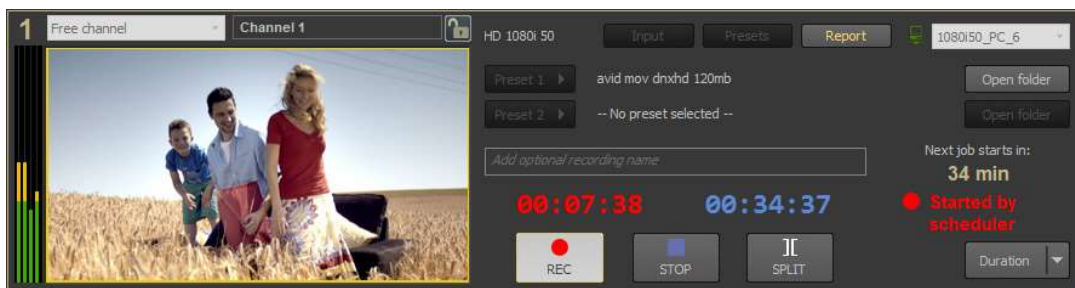
### Video tutorials

## MagicSoft Recorder - Ingest Application for Broadcast and Post-production

MagicSoft Recorder is an ingest application designed for the broadcast and post-production markets.

The supported operating systems are Windows 7 / 8 / 8.1 / 10 and Windows Server 2012 / 2016 ( 64-bit versions only ).

It is particularly useful for multicam ingest and conformance recording because it supports **up to 8 video inputs** and each input supports 2 simultaneous recordings.



The supported video modes are :

**4K UHD**    23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60

**HD720p**      50 / 59.94  
**SD**            PAL / NTSC

The program supports inputs from AJA, DeckLink, Intensity cards and NDI

For cards, the input can be set either analog or digital (depending on the card)



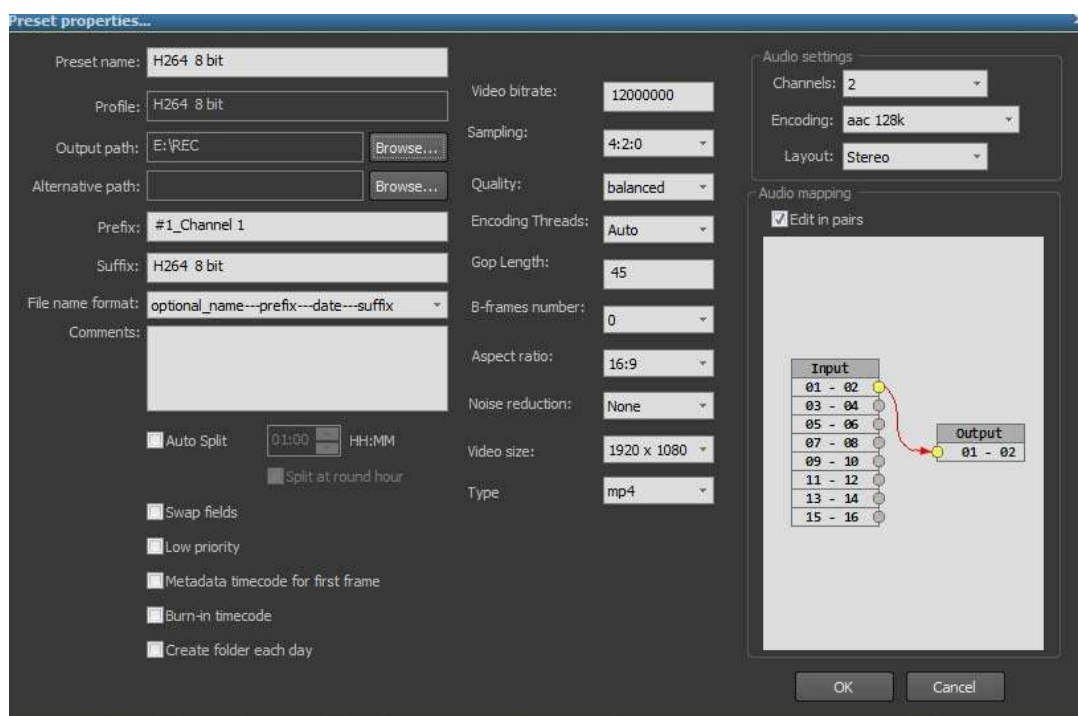
MagicSoft Recorder has modules for :

- "TimeCode and NLE support" that adds support for timecode, inserting marks and saving projects for Final Cut Pro/Edius/Premiere/Vegas
- "Web Browser Remote" that adds support for monitoring and managing the channels by using a web browser from Windows/MacOSX/iOS/Android

The list of the supported video codecs and containers:

- **AVC Intra 50 and AVC Intra 100** .mxf
- **H264 8 bit** .mp4 / .mov / .avi / .mkv and transport stream
- **H264 10 bit** .mp4 / .mov / .avi / .mkv and transport stream
- **HEVC 8 bit** .mp4 / .mov / .avi / .mkv and transport stream
- **HEVC 10 bit** .mp4 / .mov / .avi / .mkv and transport stream
  
- **H264 8 bit using nVidia** .mp4 / .mov / .avi / .mkv and transport stream
- **HEVC 8 bit using nVidia** .mp4 / .mov / .avi / .mkv and transport stream
- **HEVC10 bit using nVidia** .mp4 / .mov / .avi / .mkv and transport stream
  
- **H264 8 bit using AMD gpu** .mp4 / .mov / .avi / .mkv and transport stream
- **HEVC 8 bit using AMD gpu** .mp4 / .mov / .avi / .mkv and transport stream
  
- **XdCAM** .mov and mxf
- **ProRes** .mov

- **DNxHD 10 bit** .mov and .mxf
- **DNxHR** .mov and .mxf
- **Mpeg2** program stream and transport stream
- **DV** .avi /.mov /.mxf and rawDV
- **DVCPRO** .avi and .mov
- **Uncompressed YUV 8 bit** .avi and .mov
- **Uncompressed YUV 10bit** .avi and .mov



## MagicSoft Recorder video tutorials

Installing and requirements

Working with a recording channel

Creating and managing the presets

In-depth setting and operating a channel

The advanced settings of the MagicSoft Recorder

The scheduler



MagicSoft Recording ver 3 ---- 01 Installing and requirements



**The software can generate proxy resolutions for all video modes.**

**Up-converted 1080i files can be generated when the input is set to SD (either 4/3 or 16 /9).**

**Down-converted files can be produced as follow :**

- 1080i modes can produce down-converted PAL or NTSC
- 1080p (50 and 59.94) modes can produce down-converted 720p
- 4K UHD modes can produce down-converted 1080p
- 4K UHD (50 and 59.94) modes can also produce down-converted 720p

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**MagicSoft Recorder has several features that add value to the software :**

- integrated scheduler
- support for managing BlackMagic Design Videohub switcher over the network.
- storage management for each assigned folder for recording

**Features added by MagicSoft Recorder ver 3 :**

- support for NDI inputs (both YUV and RGBA modes are supported)
- possibility to set a workflow for capturing on 8 bit or 10 bit for the incoming video
  - a lower CPU and RAM bandwidth consumption are archived for an 8 bit capturing workflow
  - using an intermediary storage buffer to overcome the storage problems encountered when using an over-the-network storage
  - added indicators into the user interface for the level of input buffer and storage buffer

**By default, Magicsoft Recorder is able to resume automatically a recording operation in cases like :**

- lost input signal
- computer restart
- video mode changed (if the channel is set on "Auto-detect" mode)

**The software contains a watch-dog application that ensures the functionality of the MagicSoft Recorder and sends the status and alerts by SMTP email.**

**MagicSoft Recorder works for all video modes by capturing the input video as YUV 4:2:2 10 bit and it can process up to 16 audio channels (32 bit 48KHz) depending on capabilities on the used frame-buffer. The files can be stored locally or over the network shared locations.**

**Supported inputs (depending on the capability of the used cards) :**

- SDI with audio embeded
- SDI with audio AES
- YUV with analog audio
- Composite with analog audio
- HDMI



## Description

### Hardware specifications

### Video tutorials

The recommended configurations are based on Intel motherboards with socket 1151 / 1150 / 1155 / 1156 / 2011

The list of compatible hardware is open. The hardware vendors update their systems on a regular basis and it is difficult to evaluate every new system that comes to market.

The most important thing to consider is that the video frame-buffer must be compatible with the motherboard and the rest of your system. Our software will work for sure if the systems are configured correctly.

The supported operating systems are : Windows 7 / 8 / 8.1 / 10 and Windows Server 2012 / 2016 ( 64-bit version only ).

#### 4K ( 50 / 59.94 fps) UHD / 8 channels HD

Type	Observations	Processor	RAM Memory	Capturing card type
Intel Xeon Gold socket	A video card must be added	12 - 16 core	48 GB (six channel )	Decklink 8K Pro

encoding	Xeon 6142 uniprocessor setup works for 3 ch 4k@59.94 H264 as 8bit 4:2:2			Decklink Quad2 - 8 inputs	
Intel i9 socket 2066 CPU encoding	A video card must be added (ex : nVidia 750 or newer)	12 core processor (7920x or better)	32 GB (quad channel )	Decklink 4K Pro Decklink Extreme 4K Decklink Quad2 - 8 inputs	
Intel Dual Xeon platform socket 2011 CPU encoding	A video card must be added (ex : nVidia 750 or newer)	2 x 6 core Xeon (3 Ghz or more)	32 GB (quad channel for each processor)	DeckLink / Intensity /AJA	
Socket 2011 chipset x79 / x99 (with nVidia video card as encoding accelerator)	nVidia GTX 760 / 950 / 1050 (for single channel) or nVidia Quadro K2000 / K2200 / M2000 / P2000 (for multichannel)	Intel Core i7	4 X 8 GB	DeckLink / Intensity / AJA Decklink Duo2 - 4 inputs Decklink Quad2 - 8 inputs	
Socket AM4 chipset x370 or newer (up to for 8 channels H264 with real-time preset on 8 bit)	A video card must be added (ex : nVidia 750 or newer) Use a motherboard with chipset x370 or newer	AMD Ryzen 1800x / 1700x or newer	4 X 8 GB	DeckLink / Intensity / AJA Decklink Duo2 - 4 inputs Decklink Quad2 - 8 inputs	

<b>CPU Socket</b>	<b>MotherBoard</b>	<b>Processor</b>	<b>RAM Memory</b>	<b>Capturing card type</b>
<b>Socket 2011 chipset x79 / x99 (with nVidia video card GTX 750 or newer)</b>	<b>Gigabyte Asus SuperMicro</b>	<b>Intel Core i7</b>	<b>4 X 4 GB</b>	<b>Decklink / Intensity / AJA</b>
<b>Socket AM4 chipset x370 or newer</b>	<b>A video card must be added (ex : nVidia 750 or newer) Use a motherboard with chipset x370 or newer</b>	<b>AMD Ryzen 1800x / 1700x or newer</b>	<b>4 X 4 GB</b>	<b>DeckLink / Intensity / AJA Decklink Duo2 - 4 inputs Decklink Quad2 - 8 inputs</b>
<b>Socket 1151 chipset Z170</b>	<b>Gigabyte GA-Z170XP- SLI Asus Z170 PRO</b>	<b>Intel Core i7 6700K / 6700</b>	<b>4 X 4 GB</b>	<b>DeckLink / Intensity / AJA</b>
<b>Socket 1150 / Z87</b>	<b>Asus Z87-K</b>	<b>Intel Core i7 4770k</b>	<b>4 X 4GB</b>	<b>Decklink / Intensity</b>
<b>Socket 1155 / Z77</b>	<b>Gigabyte Z77X- UP4-TH Asus SaberTooth Z77</b>	<b>Intel Core i7 3770</b>	<b>4 X 4GB</b>	<b>Decklink / Intensity</b>
<b>Socket 1155</b>	<b>Gigabyte GA-P67A-UD5- B3 GA-Z68X-UD7- B3 Z68MA-D2H- B3</b>	<b>Intel Core i5 2500</b>	<b>4 X 4GB</b>	<b>Decklink / Intensity</b>





CPU Socket	MotherBoard	Processor	RAM Memory	Capturing card type
Socket AM4 chipset x370 or newer	A video card must be added (ex : nVidia 750 or newer) Use a motherboard with chipset x370 or newer	AMD Ryzen 5 or better	2 X 4 GB	DeckLink / Intensity / AJA Decklink Duo2 - 4 inputs Decklink Quad2 - 8 inputs
Socket 1155 / Z77	Gigabyte Z77X-UP4-TH Asus SaberTooth Z77	Intel Core i5 3570	2 X 4GB	Decklink / Intensity
Socket 1155	Gigabyte GA-P67A-UD3-B3 GA-P67A-UD5-B3	Intel Core i5 2500	2 X 4GB	Decklink / Intensity
Socket 1156	Gigabyte GA-P55-UD3 GA-P55-UD5 GA-P55-UD6	Intel Core i5 750	2 X 4 GB	Decklink / Intensity

### HP turn-keys system : quad channel SD or dual channel HD

Type	Observations	Processor	RAM Memory	Capturing card type
Z 420 B2B95UT	A video card must be added (ex : nVidia 650)	Intel E5-1620	8 GB	DeckLink / Intensity (must be added)

### HP turn-keys system : dual channel SD

Type	Observations	Processor	RAM Memory	Capturing card type
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