



# Playout

MagicSoft Playout software is designed as an intuitive and powerful multi-format playout solution for professional environments such as broadcasting stations and production studios.

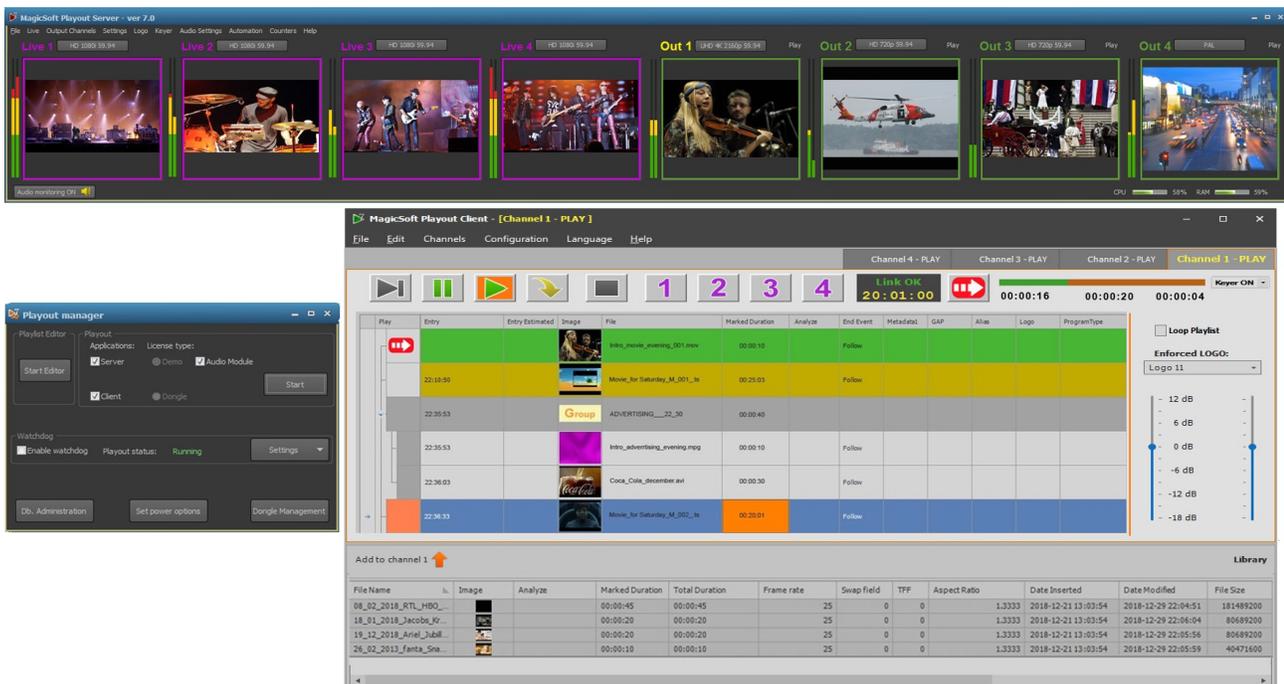
It's suitable for 24/7 playout for news, music and movies channels, allowing to insert commercials and to switch between multiple live video.

The supported output video modes are SD, HD and 4K and you can play any media files (regardless of size or resolution) because the engine will automatically make the necessary resize and framerate trans-coding ( and this works for any media file or live input ).

The software works under Windows 7 / 8 / 10 and Windows Server 2016 / 2019.

The supported video modes are :

4K UHD	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60
HD1080p	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60
HD1080i	50 / 59.94
HD720p	50 / 59.94
SD	PAL / NTSC



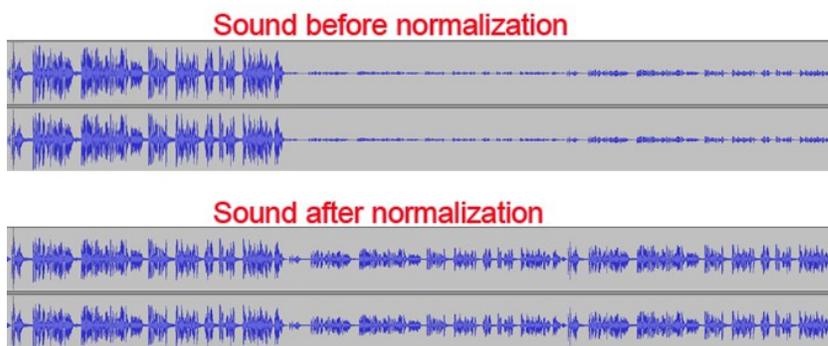
## Features:

- flexible workflow supporting both database and working with storage directly
- client-Server architecture so multiple clients can manage the server over network
- number of output channels per PC : maximum 4 channels
- live inputs :up to 4 live inputs ( allowing switching manually or automatically )
- forced starting time can be assigned for clips or live inputs
- automatically transcode for files and Live inputs ( so any file with size between 8K and 320 x 240 and the framerate between 3 and 120 fps can be used)
- supported input and output cards : BlackMagic Design ( Decklink & Intensity )
- NDI (Network Device Interface) support for inputs and outputs
- support for multiple station logo superimposed manually or automatically (per clip)
- streaming support as RTMP for resolutions between 4k and 360 x 288 working for RTMP servers like YouTube, Twitch, Wowza, Vimeo and DaCast
- support for sharing the rendering buffer of MagicSoft CG to be keyed by Playout (so using a Decklink for MagicSoft CG card it is not mandatory )
- Watchdog that supervise the Playout and can restart and send notification emails
- import folders feature ( to assign same metadata to all files taken from the folder)
- advanced playlist editor supporting working with multiple level grouping

## Features added by audio module :

- support for up to 16 audio output channels  
( without this module you can output only 2 audio channels )
- possibility to apply loudness normalization for playout files  
( EBU, NTSC, YouTube or custom settings are supported )

The loudness normalization allows using media without requiring a manual adjustment of the sound level.



Other advantages of using the loudness normalization :

- real-time automatically processing, without compression or distortion
- offers the best results even if the audio has a high dynamic range
- possibility to achieve a predictable loudness level
- guarantees that a signal does not clip

## Supported video codecs and containers:

- H264 AVC Intra 50 and AVC Intra 100 .mxf
- H264 8 bit and 10 bit .mp4 / .mov / .avi / .mkv and transport stream ( 4:2:0 / 4:2:2 )
- Mpeg2 program stream and transport stream ( 4:2:0 / 4:2:2 )
- XdCAM 35 and XdCAM 50 .mov and mxf
- IMX (for both PAL and NTSC)
- ProRes .mov
- HEVC 8 bit and 10 bit .mp4 / .mov / .avi / .mkv and transport stream ( 4:2:0 / 4:2:2 )
- DNxHD 8 bit and 10 bit .mov and .mxf
- DNxHR .mov and .mxf
- DV .avi / .mov / .mxf and rawDV
- DVCPRO .avi and .mov
- DVCPRO HD .mov
- Uncompressed YUV 8 bit .avi and .mov
- Uncompressed YUV 10bit .avi and .mov

## Recommended hardware :

### UHD 4K @ 59.94 or quad channels HD

Intel socket 3647	processor with 12-16 core	RAM 48 GB (six channel)
Intel socket 2066	processor with 12-16 core	RAM 32 GB (quad channel)

### Dual channel HD or Quad channel SD

Intel socket 2011	processor Intel i7 with 6 core	RAM 32 GB (quad channel)
AMD socket AM4	processor Ryzen 1700x or newer	RAM 32 GB (dual channel)
Intel socket 1151	processor Intel i7 with 4 core	RAM 32 GB (dual channel)

### Single channel HD

Intel socket 1151	processor Intel i7	RAM 16 GB (dual channel)
AMD socket AM4	processor Ryzen 1700x or newer	RAM 16 GB (dual channel)

### Single channel SD

Intel socket 1151	processor Intel i5	RAM 8 GB (dual channel)
AMD socket AM4	processor Ryzen 1500x or newer	RAM 8 GB (dual channel)