

Kommander T0

Media player software specification

Vision: v1.0

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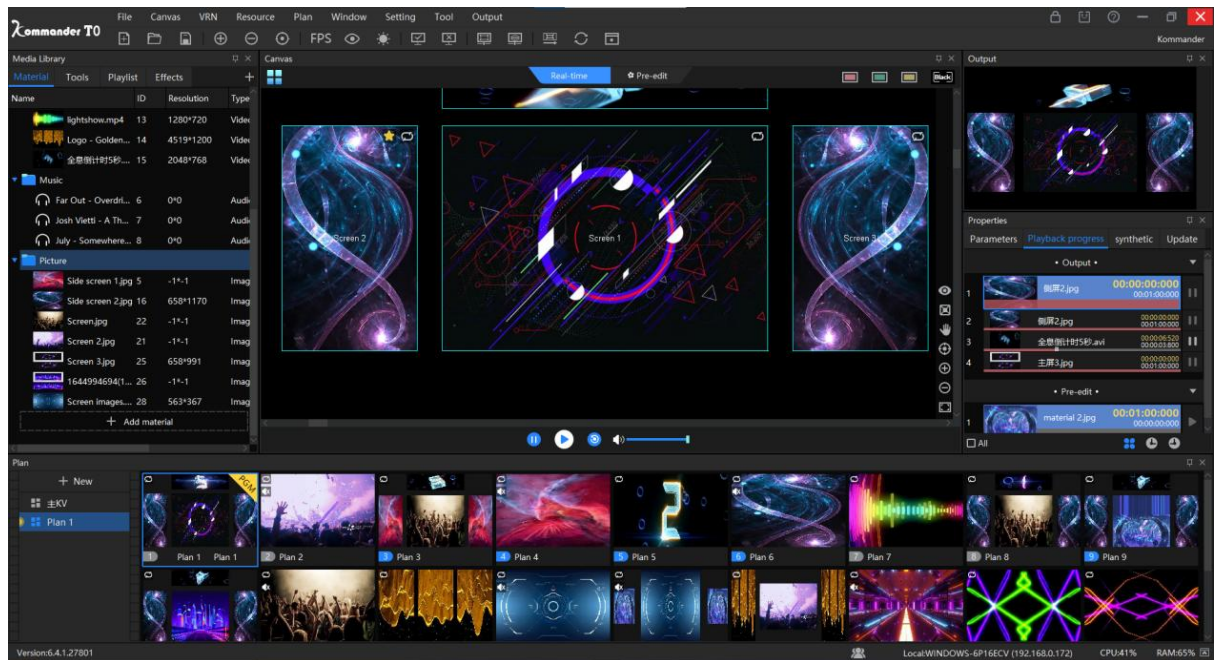
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Overview

Kommander-t0 is a laptop split-screen media player software developed and produced by Hunan Bowan Technology. It is mainly used for synchronous control of single-screen, dual-screen scenarios. With 8K hard decoding, scene pre-editing, pre split-screen play and other innovative technologies, Easy to achieve small and medium-sized stage performance and conference activities and other scene applications



Features

- Single channel,4 layers,Multi screens can play different material or the same
- Support projection correction and fusion
- Hardware decoding, render acceleration, excellent playback performance compiled with powerful decoder
- Support vod mode and time line mode, flexibly match different needs
- Main and standby devices are strictly synchronized, playback in the same progress to avoid delay
- Support subtitles, teleprompter, countdown and other tools
- NDI signal receive and send out function to allow signal pass between devices and software
- Supports adding websites and streaming media
- Support MIDI keyboard and DMX device control
- Support Spout, interactive projection
- Built-in video converter tool, convert code and format of video and audio
- Support multiple video and audio output separately
- Automatic backup to prevent data loose
- PPT animation, webpage and streaming media playback
- Free layout of functional window modules, multiple layouts can be saved
- Support batch generation of plans, automatic generation of plan names
- Support all replacement of specified materials
- Plan jump, time clipping, shortcut keys, etc.
- Control commands support remote command control under UDP protocol
- Support linkage control with splicer and console to realize scene switching

Software work environment

Users can customize specs of computers or servers according to their needs, customization mainly based on the number of pixels of the LED screen, the complexity of the broadcast program, and whether there is a high-definition video. Configurations below will be powerful enough to play a standard 4k video and run our software. For large screens HD output, please use the recommended configurations.

Configuration requirements				
	operating system	CPU	CPU	Graphics Card
minimum configuration	Windows7/8/10 64	Corei5	8G	GTX 1050
recommended configuration	Windows10 64	Corei7	16G	NVIDIA P2000

Supported hardware decoding parameters

Supported hardware decoding parameters	
4k resolution	Format: H264、H265, Resolution limit: wide maximum 4096 , height 4096
8k resolution	Format: H265、Vp9, Resolution limit: wide maximum 8192., height 8192
Code format	AVC, HEVC, VP8, VP9, mpeg-1, mpeg-2
Package format	mp4、mov
color space	color space: yuv444、yuv422、rgb can' t hardware decoding
Color depth	8bit

Supports media formats

Type	Format
Video	MP4、AVI、MKV、WMV、FLV、MOV、ASF、MPEG、MPG、TP、TS、MTS、M2TS、VOB、RMVB、RM、RAM、DIVX、EVO、OGM、M1V、M4V、MPE、3GP、WEBM、KRAWF、KTESTF
Picture	JPG、JPEG、GIF、BMP、PNG、TIF、TIFF、ICO
Audio	MP3、MP2、MPA、AAC、OGG、WAV、WMA、APE、AC3、FLAC、M1A、M2A、M4A、RA、DTS、DTSHD

Material making Reference

Video making Reference

Material	Frame rate	Type	Code format	Pixel format	Graphics card	Remark
		JPG		YUV420/YUV444		Recommended width height within 16K, super long pictures, suggested discount production
		JPG		YUV420/YUV444		If the resolution is greater than 4K, video is recommended
1080P	30FPS	MP4	H264	YUV420	P2000	Recommended 10M
	60FPS	MP4	H264	YUV420	P2000	Recommended 20M
4K	30FPS	MP4	H264	YUV420	P2000	Recommended 40M
	60FPS	MP4	H264	YUV420	P2000	Recommended 80M
		MOV	HAP		P2000	HAP,The rate is immutable,It is recommended to align the width and height to integer multiples of 16
8K	30FPS	MP4	H265	YUV420	RTX4000	Recommended 80M
	60FPS	MP4	H265	YUV420	RTX5000	Recommended 160M
	30FPS	MOV	HAP		RTX5000	The rate is immutable,It is recommended to align the width and height to integer multiples of 16

If the material exceeds 8K, advised to split it into multiple files

Audio making Reference

Code format	Format	Rate	Remark
ACC	S16	44100/48000	If there are more than eight channels, advised to split it into multiple files