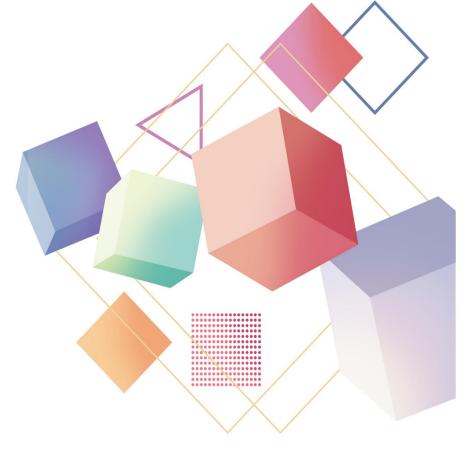# Kommander T3

Media player software specification

Vision: v1.0

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Directory

Overview

Kommander-T3 is an LED media player software developed and produced by Hunan Bowan Technology Co., Ltd. It is a media player software designed specifically for rental stage performances and other multimedia fields. The product has powerful functions, flexible and convenient operation, high stability .

Features

- Unlimited video layers,unlimited output channels
- Unlimited output channels, automatic splicing and fusion
- Support projection correction and fusion
- Support geometric deformation, creative display on fixed LED screen
- Virtual screen simulation and central management
- Hardware decoding, render acceleration, excellent playback performance compiled with powerful decoder
- Edit the plan without affecting the output
- Support MIDI keyboard and DMX device control
- Support timecode reception, integrated control of sound and light
- Supports saving and recalling of templates for screen management, which is convenient for on-site arrangement
- Built-in video converter tool, convert codec and format of video and audio
- Support multiple video and audio output separately
- Automatic backup to prevent data loose
- Special effects to reshape the material, a variety of special effects can be combined freely
- Main and standby devices are strictly synchronized, playback in the same progress to avoid delay
- Master-slave mode is cascaded and loaded to realize synchronous control of output of large screen
- Support DVI / HDMI / SDI / VGA / USB and another multi-format signals caption and playback
- NDI signal receive and send out function to allow signal pass between devices and software
- 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
- The remote center control system supports PAD wireless control, not limited to control in the control room
- Plan jump, time clipping, shortcut keys, etc.
- Screen cloning, material playback is fully synchronized
- 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.

minimum configuration

operating system:Windows7/8/10 64
Hardware configuration:CPU: Corei5 RAM: 8G Graphics Card:GTX1050

recommended configuration

operating system:windows 10 64
Hardware configuration:CPU: Corei7 Or higher RAM: 16G Graphics card: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