# iSEMC

# Media Server

## T-HEAD Videocon

Media integrated control server

## ◣ INTRODUCTION

T-HEAD Videocon media server is mainly used for splicing and synchronous broadcast control of LED screens and complex special-shaped screens.

With innovative technologies such as virtual screen management, scene pre-editing, and pre-planned split-screen broadcast control, various stage performances and conference activities can be easily realized.



T-HEAD Videocon

## 8K Hard Decoding - Super Smooth

Supports ffmpeg software decoding and DXVA hardware decoding, effectively reducing CPU usage. Using graphics card hardware decoding, it can realize point-to-point display of 8K images and smooth playback control of 8K materials; it supports point-to-point smooth playback of 16K ultra-long subtitles, and supports content discounts and end-to-end splicing functions.



## Output Splitting And Reassembly

The media server can cut and reorganize the output ports arbitrarily, so that the screen shape driven by each output port is not limited by the rectangular output of the output port, and it also makes the connection of complex-shaped displays simple.

Visual simulation can be performed according to the actual size and installation position of the installation screen, combined with the output splitting and reorganization function, making the design of the entire broadcast plan very simple.
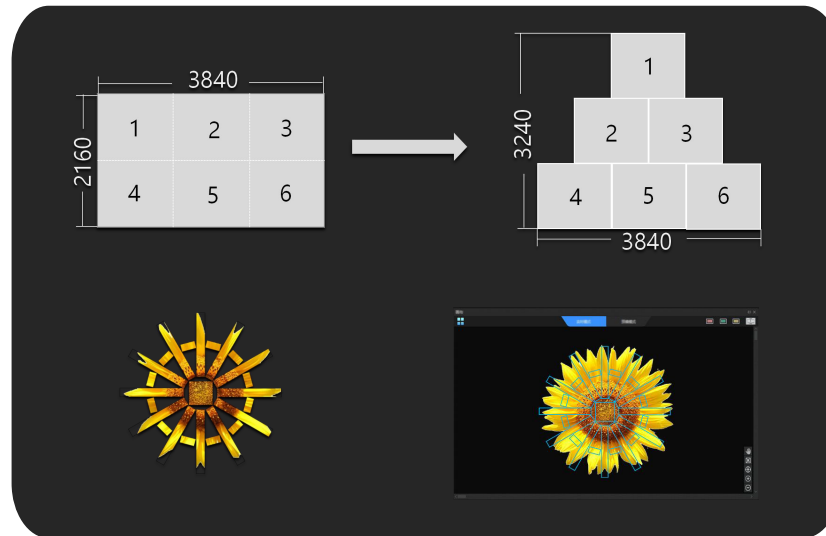


## Visual control

Real-time display of media materials, screen images and scene plans of the multimedia server, as well as signal input, echo images and scene modes of the splicer. It supports drag and drop replacement of screen images, one-click switching of scene plans and modes, and control of playback and pause of media materials. , mute and PPT page turning
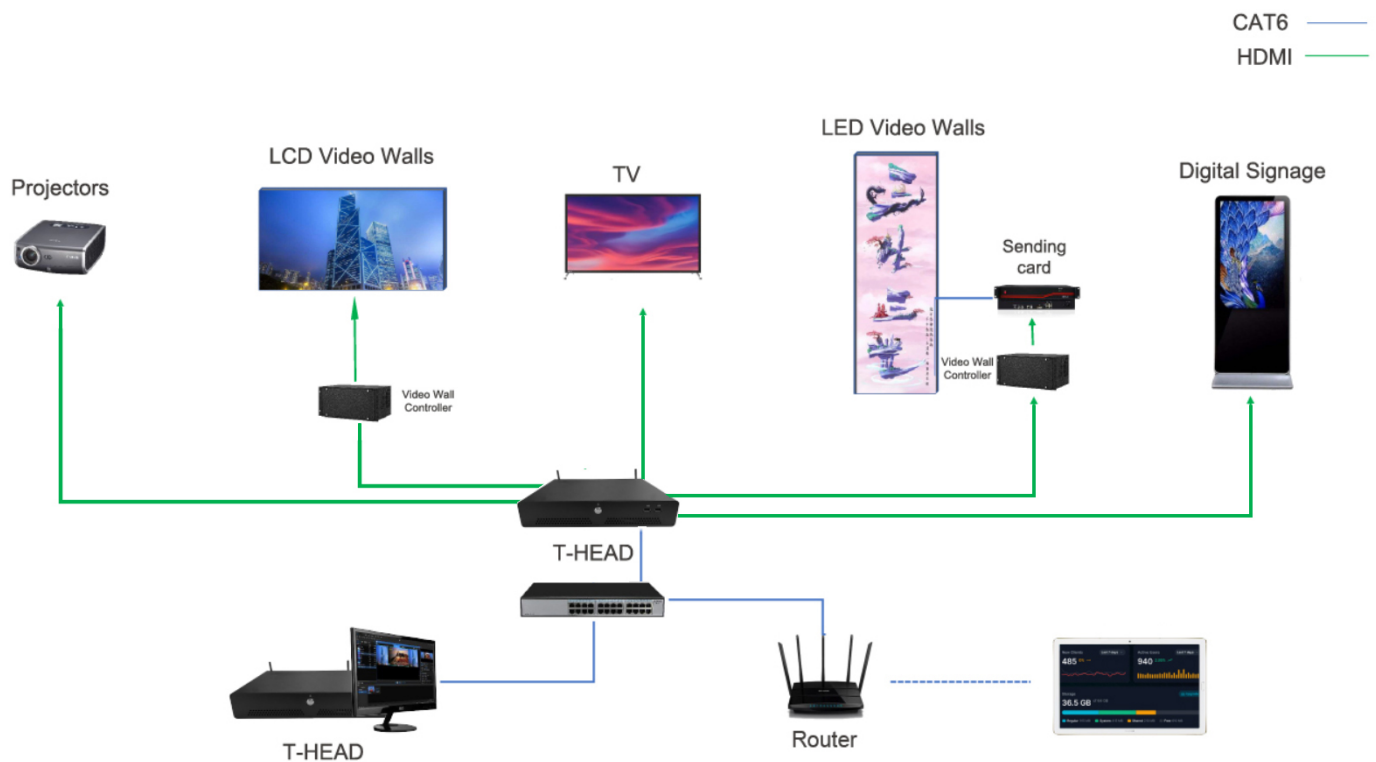
# Projection Fusion And Correction

Provides linear correction, comprehensive correction, perspective correction and other modes to quickly eliminate fusion zones and conveniently adjust domes, U-curtains, and special shapes.

# Plan Editing And Broadcasting

Program editing and broadcasting are simple and easy to use. Different plans are bound to different picture combination modes, and scenes can be switched with one click for easy broadcast control.

## ◥ DIAGRAM



CAT6 ————
HDMI ————

Projectors

LCD Video Walls

TV

LED Video Walls

Digital Signage

Sending card

Video Wall Controller

Video Wall Controller

T-HEAD

T-HEAD

Router

iSEMC

# SPECIFICATIONS

| T-HEAD Videocon | |
|---|---|
| CPU | Product Collection12th Generation Intel® Core™ i7 Processors<br>Total Cores 12<br>Total Threads 20<br>Max Turbo Frequency 4.90 GHz<br>Cache 25 MB Intel® Smart Cache<br>Total L2 Cache12 MB |
| RAM | 16GB/32GB （Option) |
| ROM | 512G/1T/2T （Option) |
| Graphics | Pascal GPU Architecture<br>1,280 NVIDIA® CUDA Parallel Computing Processing Cores<br>5GB GDDR5x Memory Capacity<br>Up to 200GB/s Memory Bandwidth<br>3.8 TFLOPS FP32 Single-Precision Computing Performance<br>Display Resolution:<br>4x 4096x2160@120Hz<br>4x 5120x2880@60Hz<br>Maximum Power Consumption: 75W<br>4x DisplayPort 1.4 Display Connector<br>PCI Express 3.0x16 |
| **Function Parameter** | |
| 1. 4 Channels of DP output, realizing point-to-point display on a large screen | |
| 2. Support hardware decoding, super rendering capabilities, and excellent playback performance | |
| 3. Unlimited video layer playback control | |
| 4. No channel limit, automatic splicing and fusion | |
| 5. Support projection correction fusion | |
| 6. Support geometric deformation function, showing creative display effect | |
| 7. Supports multi-connection, enabling multiple devices to be connected to large screens | |
| 8. Support MIDI keyboard and DMX device control | |
| 9. Support LTC and MTC time code reception, MTC time code transmission, and realize integrated control of sound and light | |
| 10. Supports template saving and calling for screen management to facilitate on-site arrangement | |
| 11. Built-in video transcoding tool, when there is a problem with the video format or parameters, open it directly for transcoding | |
| 12. Pre-planned pre-editing broadcast control, the plan can be edited without affecting the output | |
| 13. Simulation screen layout management, display port splitting, special-shaped display, arbitrary layout WYSIWYG | |
| 14. Special effects are superimposed to reshape materials, and various special effects can be combined at will | |
| 15. Linkage of active and backup mode plans | |
| 16. Supports separate output of multiple videos and audios (optional) | |
| 17. Support automatic backup of project edits to prevent on-site accidents from re-editing the project | |
| 18. Support NDI network screen capture | |
| 19. Support PPT special effects playback control, web page and streaming media playback | |
| 20. The functional window module can be arranged in any way and multiple layouts can be saved | |
| 21. The cloud control system supports PAD wireless control and is not limited to control room control. | |
| 22. Convenient functions such as material tree structure, plan group jump, time cropping, shortcut keys, etc. | |
| 23. Screen cloning, material playback is completely synchronized | |
| 24. The control command supports remote command control under the UDP protocol | |
| 25. Humanized panel design, real-time monitoring of operating status | |
| 26. Supports linkage control with splicers and consoles to achieve scene switching | |

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