



HD Integrated Terminal TV-731F4K

Embedded software: interactive programmable central control software V1.0



Description

As an integrated input and output terminal, it integrates powerful system functions such as visual management, KVM collaboration, splicing, network transmission, matrix, central control and fusion. It adopts a completely distributed structure design and supports unlimited unit extension; any unit failure will not affect the operation of the entire system, featuring high reliability. It is designed with a redundancy and backup design, bringing strong stability; it supports KVM cross-screen roaming, and mouse control with ultra-low delay. With built-in self-developed video splicing synchronization algorithm, it can be directly connected to the LED video wall. It is characterized by the desktop design (optional rack accessories) and elegant appearance.

Feature

- * Support decentralized serverless architecture deployment; each node is independent of each other and does not interfere with each other, bringing higher system operation stability and reliability.
- * The integrated input and output design can be freely configured as input terminal, output terminal or KVM terminal.
- * Support YUV4:4:4 4K@30fps high-definition video signal acquisition, encoding or decoding, display, and backward compatibility;
- * Support up to 2 channels of 4K@30fps or 2 channels of 1080P@60 H.265; support multiple image formats of YUV4:4:4/YUV4:2:2/YUV4:2:0, taking into account image quality and signal compatibility.
- * Using multi-stream transmission mode, it can still be compatible with 4K and 2K output terminals when using 4K input.
- * Support real-time preview of the input signal through the client, and the signal status is under control.
- * Station logo: without adding external devices, it supports adding text or picture to the input source as the logo; the font, font size, color and background color of the logo can be customized; the logo size can be changed as needed.
- * Subtitles: without adding external devices, subtitles (such as welcome messages) can be displayed on the splicing screen. The font size, color, and position can be customized, and dynamic scrolling subtitles is supported.
- * Local HD basemap: without adding external devices, it supports the display wall basemap function; you can load local pictures, and can set the basemap function on and off on the software.
- * With 3.5mm analog audio interface and HDM digital audio interface, it supports the transmission of original PCM audio without coding compression;
- * Support KVM function, capture screen and send screen graphically (non-text), send screen to any monitor or large screen, support KVM cross-screen roaming, support virtual mouse control to optimize KVM operation experience, support cross-platform operation, including Windows, Linux, Mac and other system platforms.
- * KVM supports OSD menu visual management, the number of preview videos on a single page can be adjusted as needed, the maximum number of previews on a single page can reach 8, and information prompts and confirmations are provided meanwhile.
- * Support KVM role permission management, it can control KVM signal management permission through the server permission management function.
- * The time difference between the picture at the signal source end and the picture after the signal source is collected by the input node, H.265 encoding at the input node, network transmission, H.265 decoding at the output node, and displayed at the output node can be as short as 16ms;
- * Built-in self-developed video splicing synchronization algorithm, no splicing processor is required, it can be directly connected to LED, LCD, DLP and other splicing screens, and the picture is synced without tearing.
- * Embedded with input synchronization function, it supports 4 input nodes for synchronous acquisition and synchronous encoding of a 8K high-resolution signal source, and transmits it to 4 output nodes for synchronous decoding and synchronous display. The entire 8K signal picture is clear and smooth, realizing 1:1 display of 4K high-resolution sources on the wall;
- * The built-in acquisition synchronization function supports the synchronization of multiple acquisition nodes and realizes the acquisition and transmission of high-resolution information sources.
- * With central control function, independent 232 serial port, 485 interface, 3 IO ports and 4 infrared output ports; support custom programming.
- * Built-in infrared learning module, it can learn the infrared codes of infrared remote control equipment including camera remote control.
- * The control interface supports two-way data transmission, and supports access to sensor devices to display environmental data and other information on the tablet.
- * With a 2.23-inch OLED display, it can display the terminal IP address and operating status in real time.
- * Desktop design, optional cabinet cooling rack, unified power supply management.
- * Adopt embedded linux system, support 7x24 hours of continuous boot operation.
- * Support online batch quick upgrade through the server.
- * Support automatic recovery after abnormal power failure.
- * Support one-key reset dynamic IP, one-key reset and restore file system functions.
- * Support POE, adapter dual power supply, low power consumption, maximum 12W.
- * Support fiber/network port dual-link backup.



HD Integrated Terminal TV-731F4K

Embedded software: interactive programmable central control software V1.0

- * Support network packet loss repair mechanism, when 10% network packet loss, the audio and video is clear and smooth, without freeze or mosaic.
- * The terminal node supports the offline maintenance function. When disconnected from the server, the original display screen can still be displayed and output normally, without screen freeze or blackout.
- * Support national secret algorithms SM2, SM3, SM4 to encrypt and transmit signaling and media streams to ensure data security and controllability.
- * Support the push function of visual video wall, which can display the video wall image in real time, adjust the screen layout of any video wall, the splicing mode of signal source, and control the zoom in, zoom out, and movement of signal source.
- * Support one-click push of the currently taken over video signal to be displayed on any window of any video wall.
- * When used as an output node, it supports setting the audio equalizer, enabling or disabling the equalizer, enabling or disabling dynamic compression, and built-in 18 commonly used equalizer scenes, which can be switched with one key or fully customized, for 60 Hz, 170 Hz, 310 Hz, 600 Hz, 1K Hz, 3K Hz, 6K Hz, 12K Hz, 14K Hz, 16K Hz and other audio frequency bands, the gain can be controlled independently, and the range is -20dB to 20dB.

Specification

Processing capability	Support 4K@30fps, 1920*1080P@60fps, 1920*1080P@30fps high-definition video signal input and output and backward compatible, 2-channel 4K@30fps or 2-channel 1080P@60 H.265, Support YUV4:4:4/YUV4:2:2/YUV4:2:0 multiple image formats
Codec capability	Support H.264/H.265 video encoding, PCM audio lossless transmission
Video port	1*HDMI IN(support audio), 1*HDMI OUT(support audio)
Audio port	1*3.5mm stereo audio input, 1*3.5mm stereo audio output, input sensitivity: 775mV
USB port	2*USB2.0 (KVM port)
Network port	1*RJ45, 10/100/1000Base-T
OPTICAL port	1*SFP
Serial port	1*RS-485, 1*RS-232
Infrared port	1*IR learning window, 4*IR OUT
I/O port	3*I/O port
Weak relay port	2*RELAY port
Reset button	1*pinhole RESET button
Mode switch	1*input and output mode switch
Indicator light	Running indicator, optical fiber indicator, infrared signal sending indicator, power indicator
Power supply	DC 12V
Max power consumption	9W
Ambient temperature	-10°C~45°C (working state), -14°C~45°C (non-working state)
Working humidity	5%~90% (working state), no condensation
Weight	About 0.9kg
Dimension	222*117*43.8mm (L*W*H)