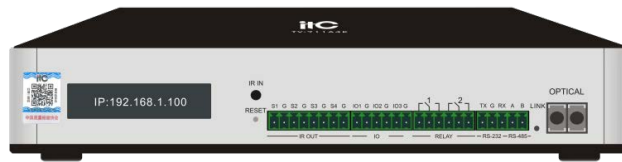




UHD Integrated Terminal

Embedded software: visual management system terminal V2.0

TV-731F4K60



Description

As a 4K UHD input 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. 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.
- * Input and output integrated design, can be configured as input terminal, output terminal, KVM input terminal or KVM output terminal according to needs;
- * Support YUV4:4:4 4K@60fps high-definition video signal acquisition, encoding or decoding, and display, support YUV4:4:4/YUV4:2:2/YUV4:2:0 multiple image formats, 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.
- * With 3.5mm analog audio interface and HDM digital audio interface, it supports the transmission of original PCM audio without coding compression.
- * The time difference between the signal source screen and the signal source after the entire process of input node collection, input node H.265 encoding, network transmission, output node H.265 decoding, and output node display can be as short as 10ms.
- * Embedded with input synchronization function, it supports 4 input nodes for synchronous acquisition and synchronous encoding of an 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, enabling 1:1 display of 8K high-resolution sources on the wall.
- * With central control function, with independent RS-232 serial port, RS-485 interface, 2 RELAY ports, 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 function.
- * Support POE, adapter dual power supply, low power consumption, maximum 12W.
- * Support one-key reset dynamic IP, one-key reset and restore file system functions.
- * Support network packet loss repair mechanism, when 10% network packet loss, the 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, and SM4 to encrypt and transmit signaling and media streams to ensure data security and controllability.
- * Support matching output nodes to realize USB transparent transmission function, no need to add additional equipment, no need to use a separate network, only need to connect a network cable or two-way optical fiber cable to realize the common transmission of media, signaling, and USB transparent transmission data.
- * Support signal cropping function, you can set cropping coordinates, cropping width and height to crop the input signal.
- * Support signal source annotation function. When used as a KVM output node, you can annotate the input box signal that is connected to the receiver. It supports free drawing, straight line, arrow, square, circle, triangle and other annotation forms. You can set the thickness and color of the annotation line. You can undo or restore the annotation operation. You can delete the annotation or delete all of them by selecting the eraser.
- * Support SIP protocol, built-in seat audio intercom function, and can connect an external USB headset to the standard SIP protocol device for audio intercom.



HD Integrated Terminal

Embedded software: VMS visual management system terminal V3.031

TV-731F4K60

- * Support KVM instant communication function, you can communicate with a single person or all employees in text, you can view pictures, pictures support zooming in and out, and you can drag and view them after zooming in.
- * Support adding time display controls, you can set the coordinate position, font size, font color, background color, transparency, font spacing, font type, display style, etc. of the time display.
- * Support adding temperature display controls, and can set the coordinate position, font size, font color, background color, transparency, font spacing, font type, temperature prefix, temperature suffix, etc. of the temperature display.
- * Support adding humidity display controls, and can set the coordinate position, font size, font color, background color, transparency, font spacing, font type, humidity prefix, humidity suffix, etc. of the humidity display.
- * Support adding real-time people counting controls, and can set the coordinate position, font size, font color, background color, transparency, font spacing, font type, statistical prefix, statistical suffix, etc. of the statistical display.
- * Support KVM account following function, after logging into any KVM wall, automatically open the window to display the signal source used last time.
- * Support setting the wall window layout to 1P, 4P, 9P, 1+4P, 1+5P, 1+7P, 2+8P, 1+12P, 16P and other common layouts, and can also customize the number of rows and columns of the wall layout, support using the original layout of the wall output box, and can turn on the automatic fill layout mode.
- * Support YUV4:4:4 4K30 HDR10 bit acquisition, encoding or decoding, and display, and support up to HDR 12bit acquisition or display.
- * Support OCR text recognition function, which can capture a computer screen captured by the input box as a picture for AI analysis, extract the text in the picture and transfer it to another computer through the KVM output box, and the extracted text can be pasted into a file.

Specification

Model	TV-731F4K60
Processing capability	Support 4K@ 60fps, 4K@ 30fps, 1920*1080P@60fps, 1920*1080P@30fps HD video signal acquisition and encoding and backward compatibility, support image formats such as YUV4:4:4/YUV4:2:2/YUV4:2:0
Codec capability	Support H.264/H.265 video coding, PCM audio lossless transmission
Video port	1*HDMI IN(support audio), 1*SDI IN, 1*HDMI OUT(support audio)
Audio port	1*3.5mm stereo input, 1*3.5mm stereo output, input sensitivity: 775mV
USB port	2*USB2.0 (KVM interface), 1*USB3.0
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
Display screen	2.23-inch OLED display with 128*32 pixels
Power supply	DC 12V /POE
Max power consumption	12W
Ambient temperature	-10°C~45°C (working state) -15°C~ 45°C (non-working state)
Ambient humidity	5%~90% (working status), no condensation
Weight	About 0.9kg
Dimension (L*W*H)	222*117*43.8mm