# HD Integrated Terminal TV-711C

## Embedded software: VMS visual management system terminal embedded software V3.031


## Description

It is an integrated input and output terminal of a visual management platform. 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 desktop design (optional rack accessories) and elegant appearance.

## Feature

* The integrated input and output design can be freely configured as input terminal, output terminal or KVM terminal.
* Support 1920*1080P@60fps, 1920*1080P@30fps high-definition video signal input and backward compatibility, and transmit multiple streams at the same time.
* Support 1080P@60fps H264/H265 decoding display, support 16-channel 1080P@60fps H264/H265 decoding display, support screen tiling, scaling, overlaying, splitting, and roaming.
* 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, control KVM signal management permission through the server permission management function.
* Support access to fingerprint sensor to realize KVM fingerprint identification login, and support to cooperate with USB camera to realize KVM face recognition login function, and establish a fast, reliable and safe access channel.
* Built-in self-developed video splicing synchronization algorithm, no splicing processor is required, it can be directly connected to LED sending card, LCD, DLP and other splicing screens, and the picture is synced without tearing.
* Built-in input synchronization function, supports 4 input nodes for synchronous acquisition and synchronous encoding of a 4K signal source, and transmits to 4 output nodes for synchronous decoding and synchronous display, the whole 4K signal picture is clear and smooth, without tearing, realizing 1:1 wall display of 4K signal source.
* Support the function of central control, with 1 independent RS-232 serial port, 2 RS-485 interfaces, 2 RELAY ports, 3 IO ports and 4 infrared output interfaces, and support custom programming.
* Built-in infrared learning module, support learning infrared codes of infrared remote control devices 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 side.
* With a 2.23-inch OLED display, it can display the terminal IP address and operating status in real time.

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* Desktop structure design, optional cabinet-type cooling rack, and unified power supply management.
* Adopt embedded linux system, support 7x24 hours of continuous operation.
* Support online batch upgrade through the server.
* Support automatic recovery from abnormal power failure, and the device automatically restores to the previous status.
* Support one-key reset dynamic IP.
* Support DC12V/POE dual power supply, low power consumption, maximum 10W.
* Support fiber/network port dual link backup.
* 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.
* The time difference between the signal source picture and the signal source picture 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 30ms.
* Support USB transparent transmission function, no need to add additional equipment, no need to use a separate network, and 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 SIP protocol, built-in seat video intercom function, can connect external USB camera, USB headset and standard SIP protocol equipment for video intercom.
* Support national secret algorithms SM2, SM3, SM4 to encrypt and transmit signaling and media streams to ensure data security and controllability.
* Built-in AI gesture recognition capability, it can control signal source scaling, dragging, full screen, etc. by recognizing different gestures and converting them into different control instructions.

## Specification

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| **Processing capability** | When used as an input node, it supports 1080P@60fps capture and 1080P@60fps encoding, and is backward compatible. When used as an output node, it supports 1080P@60fps decoding, 1080P@60fps output display, and is backward compatible. It supports 16 channels of 1920×1080@60fps decoding. |
| **Codec capability** | Support PCM audio lossless transmission |
| **Video port** | 2×HDMI IN、1×HDMI OUT、1×DP OUT |
| **Audio port** | 1*3.5mm stereo input, 1*3.5mm stereo output, input sensitivity: 775mV |
| **USB port** | 2*USB2.0 (KVM interface), 2*USB3.0, 1×Type-C |
| **Network port** | 1*RJ45, 10/100/1000Base-T, support POE |
| **OPTICAL port** | 1×SFP |
| **Serial port** | 1×RS-485, 2×RS-232 |
| **Infrared port** | 1×IR IN, 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 |
| **Display screen** | 2.23-inch OLED display with 128*32 pixels |
| **Power supply** | DC 12V/POE |
| **Max power consumption** | 10W |
| **Ambient temperature** | -10°C~45°C (working state); -15°C~45°C (non-working state) |
| **Ambient humidity** | 5%~90% (working state), no condensation |
| **Weight** | About 1.02Kg |
| **Dimension (L*W*H)** | 240×117×41.8mm |