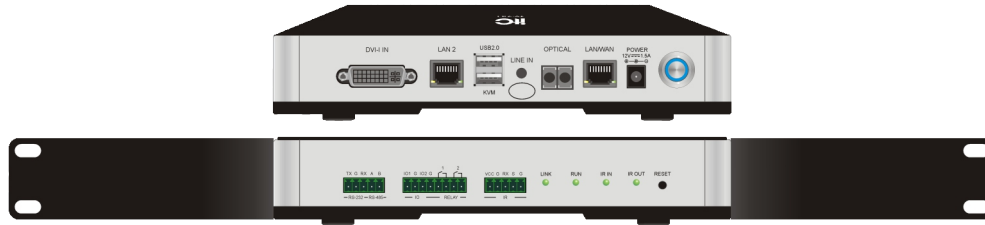# Distributed Signal Collection Box

Terminal Embedded Software V1.0 of Visual Management System
TV-731

Description

It is a high-performance multi-functional ultra HD input box that can collect and encode video signals and audio signals as well as send it to the HD output box through the network. It supports fiber / network dual backup, USB transparent transmission, KVM and central control functions. With desktop structure design, beautiful and high end appearance.

Feature:

* It adopts aluminum alloy structure design, with beautiful and high-end appearance.
* The distributed architecture is adopted, the failure of any node in the system will not affect the normal operation of other nodes.
* Support POE and adapter dual power supply. Adopt ultra-low power design, the maximum power consumption is only 7W; There is no noise in fanless cooling system.
* With H.265 video coding technology, compression efficiency save 50%., bandwidth and storage are saved by about 50%; It is also compatible with H.264 video coding.
* It can realize adaptive acquisition and video coding of different resolution videos, ultra HD visual effects, realistic picture quality restoration and 1080P resolution.
* Support automatic configuration recovery after power-off restart. So there is no need to worry about data loss.
It supports remote firm ware upgrade by system background, reducing the work intensity of maintenance personnel.
* It comes with one key to reset the dynamic IP function.
* Support 1 channel DVI-I video and 1 channel 3.5mm stereo audio input, audio and video synchronous transmission, HDMI / DVI / VGA video signal.
* Support KVM function, support control computer, LED wall video window switching and other functions; support mouse roaming cross-screen function; support cross-platform operation, including Windows, Linux, Mac and other system platforms.
* With dual stream transmission function, it supports the transmission of HD stream to video wall, and client visual preview the input signal.
* Support real-time preview and monitoring of input signals. The operation is easy.
* Support central control function, 1 channel of RS-232, RS-485, two channel of I / O port, 2 channel of Relay interface, Infrared signal input and output signal port, custom programming configuration, can control peripheral equipment and support connect with computer for boot/shutdown.
* Support infrared function. The infrared output port can control devices such as cameras, televisions, air conditioners, etc .,the infrared input supports infrared learning and so on.
* Support subtitle function. We can change font color, font size, position, etc , support icon function, station logo transparent overlay.
* Support audio transmission, audiovisual synchronous transmission or asynchronous transmission, independent volume adjustment.
* Through the tablet client, we can remotely operate PC, computer server and other signal sources to simulate mouse clicks / double-clicks, etc by the tablet client, we can play and stop dynamic video signals, and turn previous/ next pages of PPT on PC computers (servers).
* Support USB2.0 device transparent transmission function, USB peripherals such as U disk, Ukey, CA certification, mobile hard disk, mobile optical drive.
* Color sampling adopts 4: 4: 4 color sampling.
* Support fiber / network port dual link backup.

Specification:

Model	TV-731
Processing capacity	Resolution supports 720P ~ 1080P60 frames
Codec capabilities	Support H.264 / H.265 video encoding, AAC-LC audio encoding
Video interface	1 DVI-I video interface
Audio port	1 3.5mm stereo audio interface input
USB interfaces	1 × USB (KVM interface), 1 × USB (transparent transmission)
Network ports	1 × RJ45, 10/100 / 1000Base-T. Support POE power supply
LAN/WAN port	Support video and audio, control, KVM signal transmission, support POE function
LAN2 port	supports USB data transparent transmission function
OPTICAL fiber optic network interface	single-mode dual-core LC-LC fiber optic jumper
Serial ports	1 × RS-485, 1 × RS-232
Infrared	1 × IR IN, 1 × IR OUT
I / O ports	2 × I / O ports
Relay port	2 RELAY ports
Indicator lights	Running indicator, infrared signal input indicator, infrared signal output indicator, power indicator
Maximum power consumption	7W
Ambient temperature	-10 ℃ ~ 45 ℃ (working state) -10 ℃ ~ 70 ℃ (non-working state)
Relative humidity	5% ~ 90% (working condition), no condensation
Weight	1kg
Dimensions(WxDxH)	222mm × 11mm × 40mm