NEXIS

HK100PC

Video over IP Controller



1. Introduction

This Video over IP Controller is used to control and manage JPEG2000 IP products. It supports dual 100M network ports, which can realize dual-network isolation of Control network and Multicast video distribution network. Built-in Web GUI, TCP and RS-232 control are supported. It supports POE function and wide-band 12V IR signal receiving. Since the demand of IP products is daily increased in the current market, the IP Controller will be widely applied in more and more different scenarios.

2. Features

☆ Easy to create project, control and manage the system
☆ Flexibly support Auto, DHCP and Manual three types of IP configurations
☆ HTTPS, SSH, SFTP security compatible
☆ Built-in Web GUI control interface, supporting Drag & Drop operations
☆ Support image preview
☆ Support video, audio, RS-232, IR, KVM control and management of the distributed system
☆ Dual network ports (VIDEO LAN port supports POE function) to isolate Controls and Multicast networks.
☆ Support LAN/RS-232 port control and third-party central control
☆ Support IR signal receiving (3.5mm audio jack, 12V level)
☆ 4 channel GPIO control ports (5V/12V optional level)
☆ Multiple circuits protection, lightning protection and ESD design
☆ Reliable system design, ensuring 7*24 hours reliable and stable work

3. Package Contents

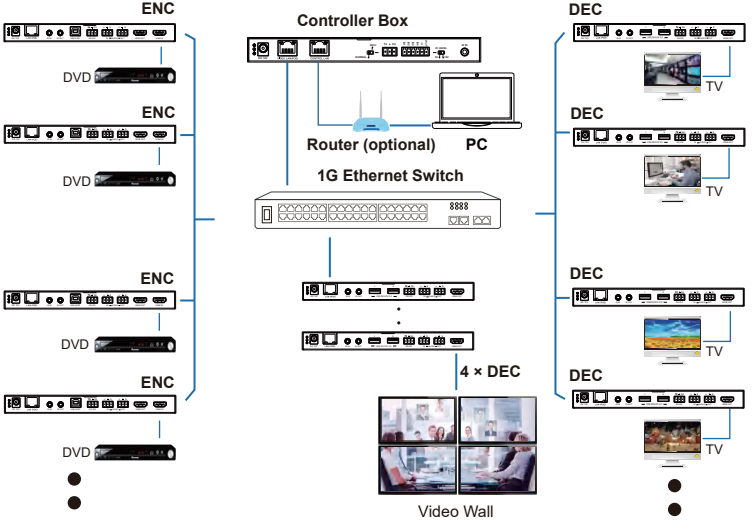
① 1 x Video over IP Controller
② 1 x 20kHz-60kHz 12V IR Receiver Cable (1.5 meters)
③ 1 x 3-pin 3.81mm Phoenix Connector (Male)
④ 1 x 6-pin 3.81mm Phoenix Connector (Male)
⑤ 2 x Mounting Ears
⑥ 4 x Machine Screws (KM3*6)
⑦ 1 x 12V/1A Locking Power Adaptor
⑧ 1 x User Manual

4. Specifications

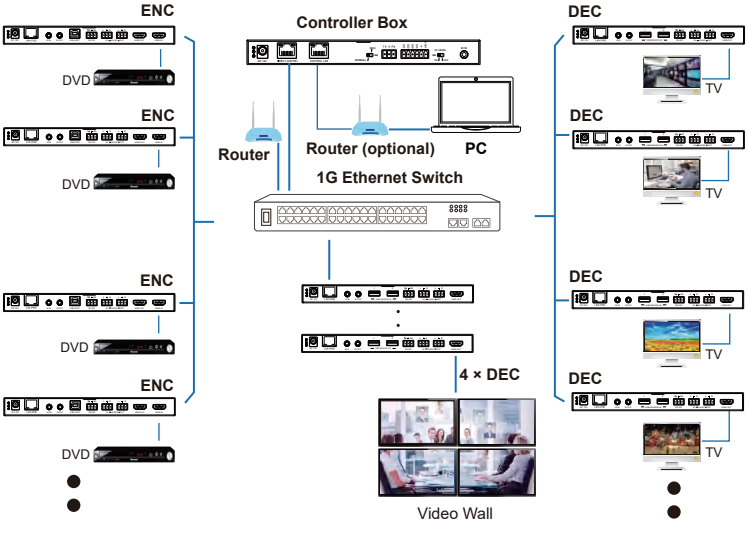
Technical	
Network Video Bandwidth	Up to 100M
Transmission Distance	100m CAT 5E/6/6A/7
Control Ports	2 x 100M LAN [RJ45 connector] [VIDEO LAN support POE] 1 x IR IN [3.5mm audio jack, 12V level] 1 x DIGITAL I/O [6-pin 3.81mm phoenix connector] 1 x RS-232 [3-pin 3.81mm phoenix connector]
Dimensions	204mm(W)×98mm(D)×21mm(H)
Housing	Metal Enclosure
Color	Black
Weight	509g
Power Supply	12V/1A
Power Consumption	4.5W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

5. Application Example

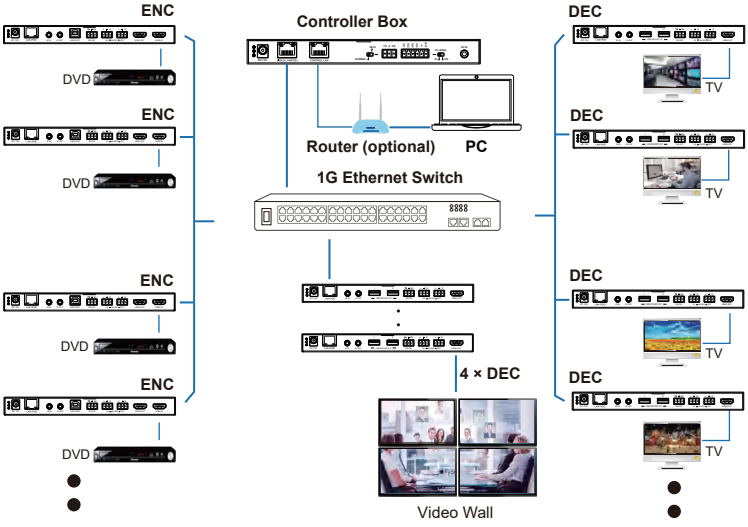
Mode 1: Automatically managed by Controller Box.



Mode 2: DHCP mode.



Mode 3: Static IP mode by manual settings.



Notes:

(1) For the default IP mode of Control LAN port of the Controller Box is DHCP, the PC also needs to be set to "Obtain an IP address automatically" mode, and an optional DHCP server (e.g. network router) is recommended in the system.

(2) If there is no DHCP server in the system, 192.168.0.225 will be used as the IP address of Control LAN port. You need to set the IP address of the PC to be in the same network segment. For example, set PC's IP address as 192.168.0.88.

(3) You can access the Web GUI by inputting URL "http://controller.local" or the Control LAN port IP address 192.168.0.225 (in case of no optional Router) on your computer's browser.

(4) No need to care about settings of Video LAN port of the Controller Box in Mode 1 and Mode 2, as they are managed by Controller automatically.

(5) When the Network Switch does not support PoE, the Encoder, Decoder and Controller Box should be powered by DC power adpater.