

**Model: CMIPVM25**

Architectural and

Engineering Specifications

Version 1.0

**PART 1: PLEASE REFER TO ATTACHED DOCUMENTS - OVERVIEW & FORMAT SAMPLES**

**PART 2: PRODUCTS**

**Division 28 – Electric Safety and Security**

**Section 28 23 29 – Video Surveillance Remote Devices and Sensors**

## Manufacturer

Costar Video Systems
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### General

### Product Description

CMIPVM25 is a video decoder designed and manufactured by Costar Video Systems. The video decoder is powered by PoE and provides live video compression and video transmission over Ethernet connections. The device supports 16 composite video output connectors such as HDMI, VGA, and CVBS, and compresses video with H.264 and H.265 codec. The decoder has one RJ-45 connector, and the connector supports 10/100/1000 BASE-T.

## General Specification

1. The switch shall support 16 composite video output connectors.
2. The switch shall support 1 RJ-45 10/100/1000 BASE-T.
3. The switch shall support H.264 and H.265 algorithms.
4. The switch shall support DirectNET IP Cameras
5. The switch shall support up to 3840x2160 output resolution with HDMI.
6. The switch shall support up to 480ips live display.

## Protocol Specification: DirectNET Protocol and iNEX Protocol

### The video decoder supports Costar IP cameras in both DirectNET and iNEX protocol.

### DirectNET Protocol

1. DirectNET protocol shall provide easy connection to Costar IP Camera for automatic discovery and video streaming configuration.
2. DirectNET protocol shall provide Quadruple streams.
3. DirectNET protocol shall support H.265 and H.264 only as primary compression.

### iNEX Protocol

1. iNEX protocol shall provide compatibility with StarNET Pro VMS or ONVIF for third-party software solutions.
2. iNEX protocol shall provide Quadruple streams.
3. iNEX protocol shall support H.265 and H.264 compression.

# Technical Specification

## Hardware specifications

1. USB port: 2 USB 2.0 ports
2. Video Out: 1 HDMI, 1 VGA, and 1 CVBS

## Network Specifications

1. Copper Service Port: 1 RJ-45 Connector (10BASE-T, 100BASE-TX, 1000BASE-T)
2. Network throughput: Max. 90Mbps
3. Network Protocol: TCP, UDP, SNTP, mDNS,

## Decoding specification

### Display resolution

1. HDMI: 3840x2160, 1920x1200, 1920x1080, 1680x1050, 1600x1200
2. VGA: 1920x1200, 1920x1080, 1680x1050, 1600x1200
3. CVBS: 720x480(NTSC), 720x576(PAL)

### Decoding capability

1. Up to 480 ips (16ch x 30ips)
2. Bitrate control: VBR

## Electrical Specifications

1. Power Consumption: 12V=, 1.4A, 16.8W, PoE, IEEE 802.3at (Class 4)
2. Power Input: 12VDC, PoE
3. Regulatory Approvals:
	1. Electrical: FCC, CE, KC

## Mechanical Specifications

1. Unit Dimensions (W x H x D): 200mm x 44mm x 153mm (7.9" x 1.7" x 6.0")
2. Unit Weight: 0.78kg (1.72lb)

## Environmental Specifications

1. Operating Temperature: 0°C to 40°C (32℉ ~ 104℉)
2. Operating Humidity: 0 ~ 90%

# Version History

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| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | TS Team | May, 24, 2023 | Initial Release |