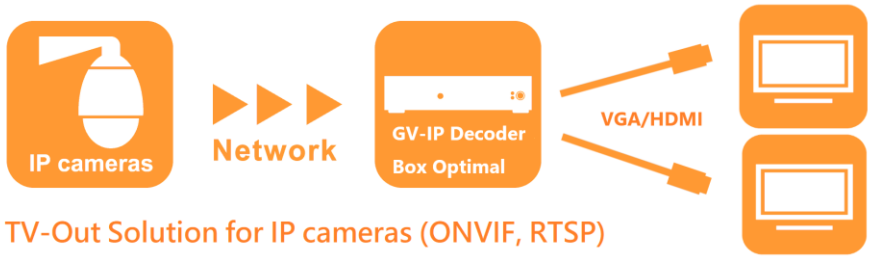
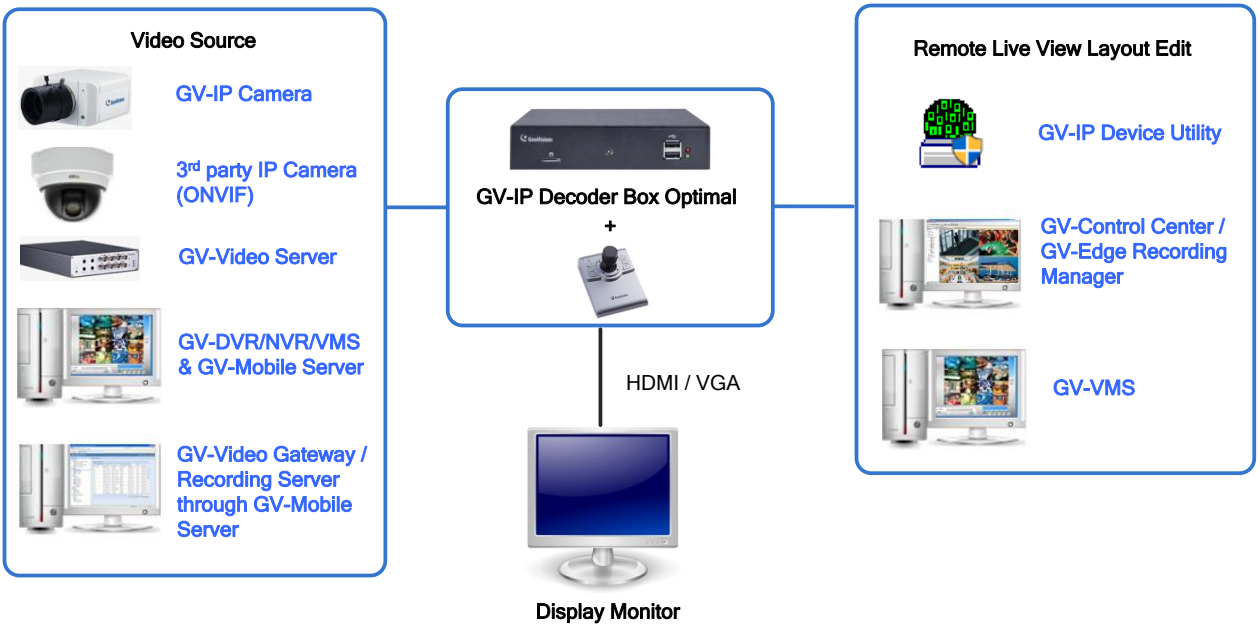
GV-IP Decoder Box Optimal



Introduction

GV-IP Decoder Box Optimal can decode and loop up to 64 IP video streams in single, 4-, 6-, 8-, 9-, or 16-division views. It supports third-party IP cameras via RTSP or ONVIF and can automatically detect ONVIF-compliant cameras on the same LAN. With both HDMI and VGA outputs, it enables dual-monitor display, allowing live view channels to loop on the extended screen for more effective surveillance. Administrators can monitor channels, capture snapshots of critical moments, and pause a channel when events occur. GV-Joystick V2 can also be connected for PTZ or Speed Dome camera control.



Features

- H.264 / H.265 video stream decoding at up to 60 fps (1-ch max.)
- Video decoding support for resolution up to 8 MP
- Decoding of up to 64 IP streams per live view grid with looping display
- Auto-search for ONVIF IP devices
- Third-party IP camera support via RTSP or ONVIF
- Single, 4-divsion, 6-division, 8-division, 9-division, and 16-division views
- Matrix view display through GV-Mobile Server
- 10/100 Ethernet over LAN
- DC 12V / PoE (IEEE 802.3af)
- Dual monitor display for HDMI and VGA outputs
- User interface control via GV-IR Remote Control
- PTZ and Speed Dome camera control via GV-Joystick V2
- Remote firmware upgrade, IP address configuration, and addition of new channel
- Micro SD card and USB drive support for snapshot storage and firmware upgrade
- Remote camera and layout assignment from GV-Control Center, GV-Edge Recording Manager, or GV-VMS
- Support for 10 languages

Specifications

Video		
Video Codec		H.264, H.265
Audio Codec		G.711
Maximum Resolution	1-ch Division	3840 x 2160: up to 30 fps, 30 fps in total (1 CH max.) 1920 x 1080: up to 60 fps
	4-ch Division (Quad View)	Grid 1: 2560 x 1920, Other 3 grids: 1920 x 1080 Up to 30 fps, 120 fps in total (4 CH max.)
		Grid 1: 1920 x 1080: up to 60 fps Other 3 grids: 1920 x 1080, up to 30 fps
	6-ch Division	1280 x 720: up to 30 fps, 180 fps in total (6 CH max.)
	8-ch Division	1280 x 720: up to 30 fps, 240 fps in total (8 CH max.)
	9-ch Division	1280 x 720: up to 30 fps, 270 fps in total (9 CH max.)
	16-ch Division	640 x 480: up to 30 fps, 480 fps in total (16 CH max.)
Video Output	HDMI	3840 x 2160 / 1920 x 1080
	VGA	1920 x 1080
Network		
Interface		10/100 Ethernet
Protocol		ONVIF, RTSP, TCP
Mechanical		
Connectors	Power Adapter	12V DC Jack
	Ethernet	RJ-45
	Monitor Output	HDMI / VGA
	Memory Card	microSD / SDHC card slot (for Class 4 or above, FAT32 format)
	USB 2.0	USB slot x 2 (2.0 backward compatible, FAT32 format)
General		
Operating Temperature		0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity		20% ~ 80% (with no condensation)

Weather Resistance	Indoor use only
Dimensions (W x H x D)	162.3 x 112.6 x 36.5 mm (6.4” x 4.4” x 1.4”)
Net Weight	558 g (1.23 lb)
Power	DC 12V / PoE (IEEE 802.3af)
Power Consumption	36 W (max. 3 A at 12V DC)
Certification	CE, FCC, RCM, LVD, UKCA compliant
Language	English / French / German / Italian / Japanese / Polish / Portuguese / Russian / Spanish / Traditional Chinese
Applications	
Software Supported	GV-VMS (V17.4.8 / V18.3.3 or later), GV-Edge Recording Manager (Windows Version, V2.2.8 or later), GV-Control Center (V4.2.1 or later)

Note:

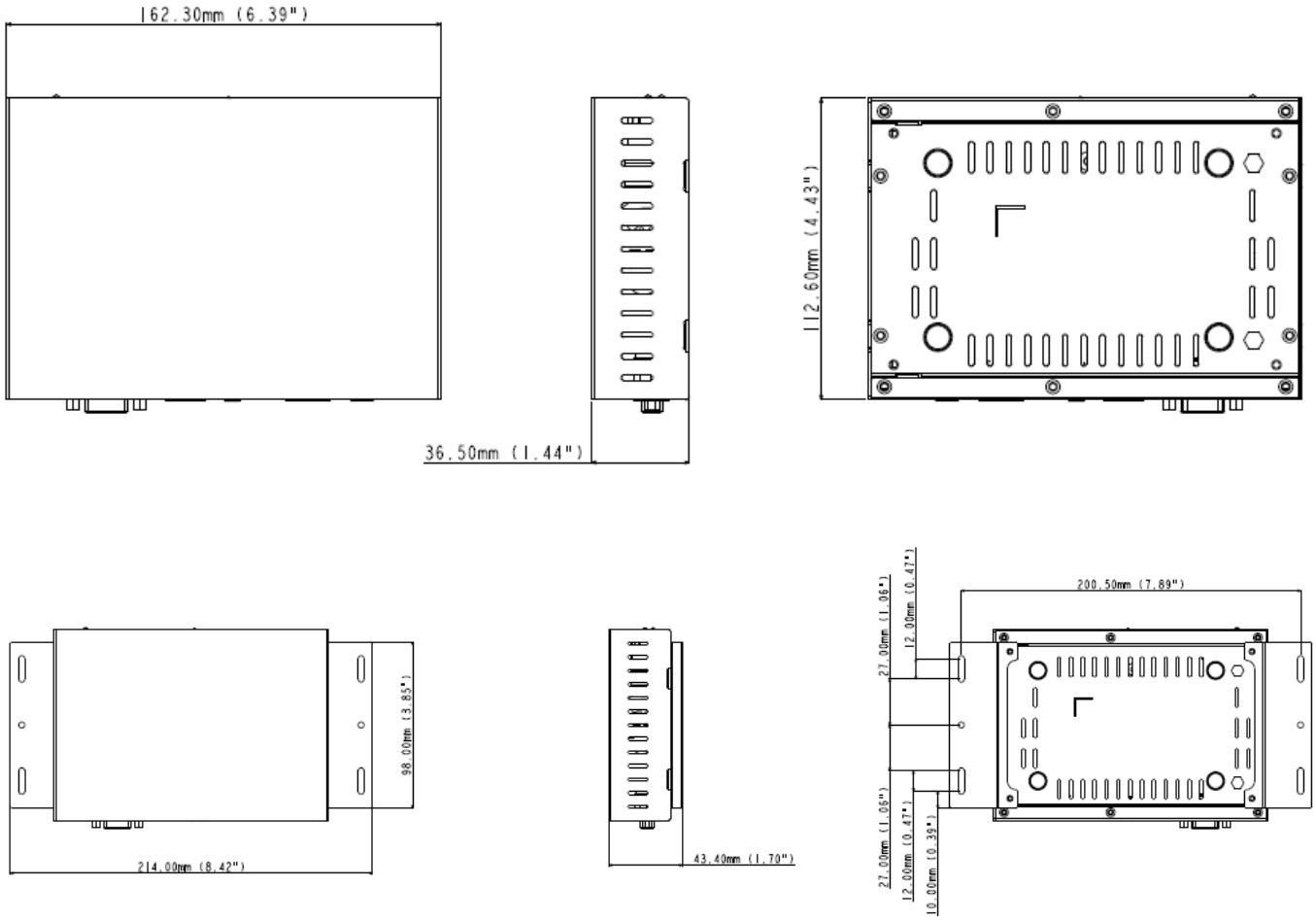
1. The device can only accept one power source, either a PoE power supply or a DC power adapter. Connecting two power sources simultaneously can damage the device.
2. To ensure a smooth operation, the bitrate of each channel should be below 6 Mbps (for 16-ch division, the bitrate should be below 3 Mbps).
3. Remote camera and layout assignment via GV-Software is supported only by GV-Control Center V4.2.1, GV-Edge Recording Manager V2.2.8, and GV-VMS V17.4.8 / 18.3.3 or later.
4. Up to 64 cameras can be displayed sequentially on each live view grid when GV-IP Decoder Box Optimal is connected to GV-Control Center, GV-Edge Recording Manager, or GV-VMS.
5. 16-ch division display and 60 fps resolution are only supported by firmware V1.04 or later.
6. Specifications are subject to change without notice.

Compatible Devices

- GV-IP Camera and GV-Video Server
- Third-party IP devices supporting H.264 / H.265 and adhering to RTSP or ONVIF
- GV-Mobile Server
- HD DVR: UA-XVR and UA-XVL models

To decode and display non-H.264 / H.265 IP channels or GV-FER12203 / 12700, connect the devices to GV-NVR / VMS and access them through GV-Mobile Server.

Dimensions



Overview

Accessories

Name	Details
GV-Joystick V2 	GV-Joystick V2 facilitates focusing, zooming, panning, tilting of GeoVision and third-party PTZ or Speed Dome cameras connected to GV-IP Decoder Box.
GV-POE Switch	GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.
HDMI Cable 	Use the HDMI cable to connect GV-IP Decoder Box with an HDMI monitor for high-quality image display. Length: 150 cm (4.92 ft) Version: 1.4a
Power Adapter	Contact our sales representatives for the countries and areas supported.
Wall Mount Kit 	Use the Wall Mount Kit to install GV-IP Decoder Box on wall.

Packing List

- GV-IP Decoder Box Optimal
- GV-IR Remote Control
- Download Guide
- Warranty Card