

## ORIVISION ZY-EHV101

# ORIVISION EHV1401 HDMI VGA Multi-Interface Video Encoder User Manual

Model: ZY-EHV101

## 1. INTRODUCTION

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The ORIVISION EHV1401 is a versatile HDMI and VGA video encoder designed for professional video streaming and broadcasting applications. It supports H.265 and H.264 video encoding at resolutions up to 1080P@60Hz, offering multi-channel output and various streaming protocols. This manual provides detailed instructions for setting up, operating, and maintaining your encoder.

## 2. KEY FEATURES

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- Supports H.265/H.264 video encoding.
- Adaptive selection for HDMI or VGA input.
- Simultaneous HDMI and VGA loop-out display.
- Supports 1x HDMI and 1x VGA input with corresponding loop-out.
- Digital and analog audio loop-out support.
- Wide protocol support: HTTP, HTTPS, RTSP, RTMP, RTMPS, SRT, UDP, RTP, HLS, FLV, Onvif.
- Up to 1080P@60Hz resolution input and output.
- Supports 4 channels of simultaneous stream output.
- Audio encoding without video input capability.
- Two-way audio transmission support.
- AAC/G.711 advanced audio coding format.
- 1000M full-duplex network interface for LAN and WAN transmission.
- Supports POE power supply (optional).
- SDK support for secondary development.
- Network remote management and upgrade capabilities.
- Designed for 24/7 operation.

## 3. PRODUCT OVERVIEW AND INTERFACES

The ORIVISION EHV1401 encoder features multiple input and output ports for flexible connectivity. Understanding these interfaces is crucial for proper setup.

1080P@60HZ    H.265 H.264

HDMI VGA Audio Video Encoder

ZY-EHV101



HD

1080P@60HZ

H265

H264

Encoding



HDMI 1.4 & VGA



1000M Ethernet

**Figure 3.1:** Front panel of the ORIVISION EHV1401 encoder. From left to right, it shows VGA input, HDMI input, Audio input, Audio output, VGA output, HDMI output, LAN port, and 12V DC power input.

# H.265 HDMI+VGA Video Encoder For IPTV, Live Stream, Broadcast

- HDMI/VGA Adaptive Selection
- 1080P@60hz and so on
- RS-232 Ready for PTZ control
- Multi protocols: HTTP, UTP, RTSP, RTMP, RTMPS, SRT, RTP, GB28181, ONVIF



Model No.: ZY-EHV101

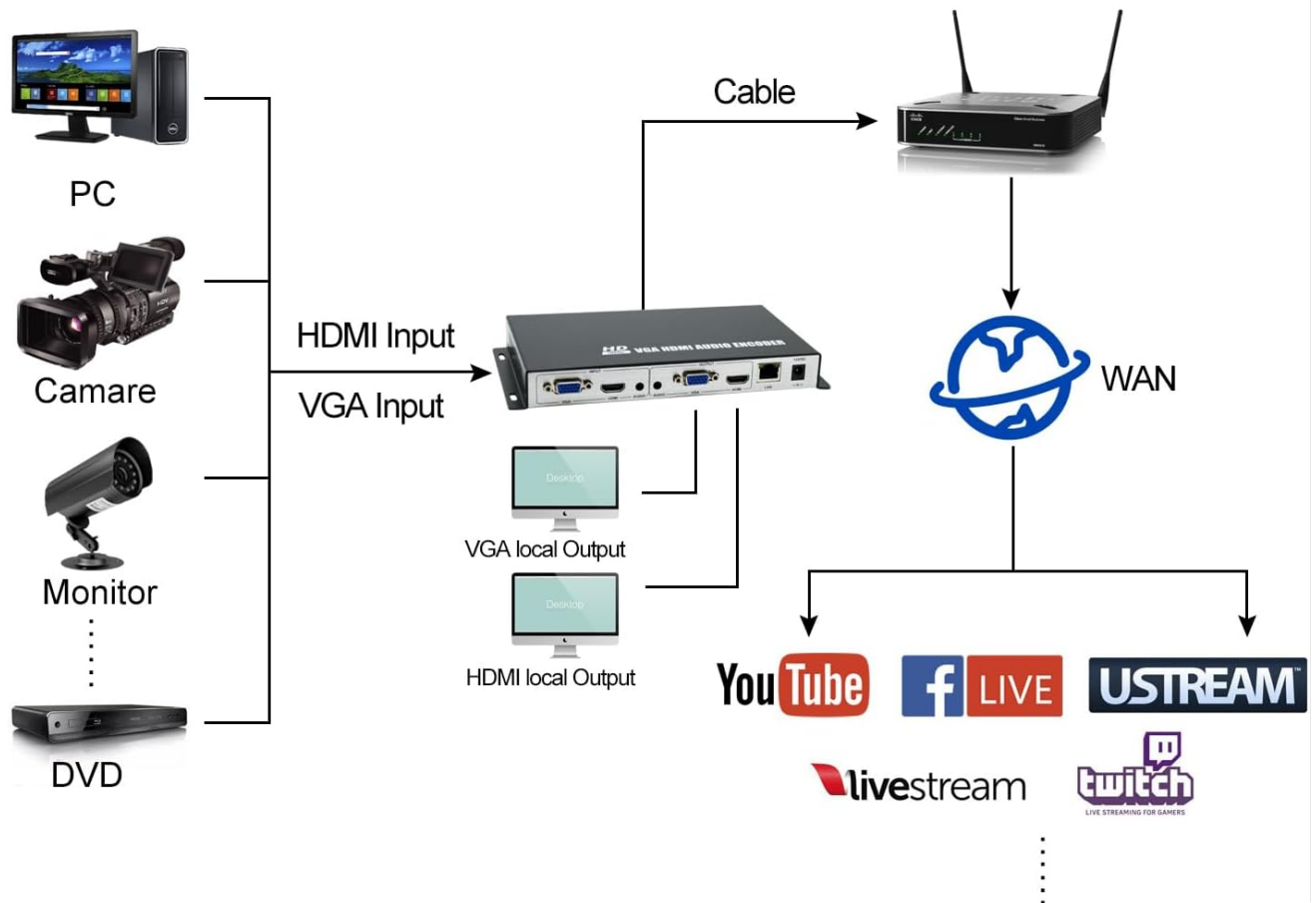
**Figure 3.2:** Overview of the ORIVISION EHV1401 encoder highlighting its primary applications for IPTV, Live Stream, and Broadcast, along with key features like adaptive input, 1080P@60Hz support, RS-232 for PTZ, and multiple protocols.

## 4. SETUP AND CONNECTION

Follow these steps to connect your ORIVISION EHV1401 encoder to your video sources, displays, and network.

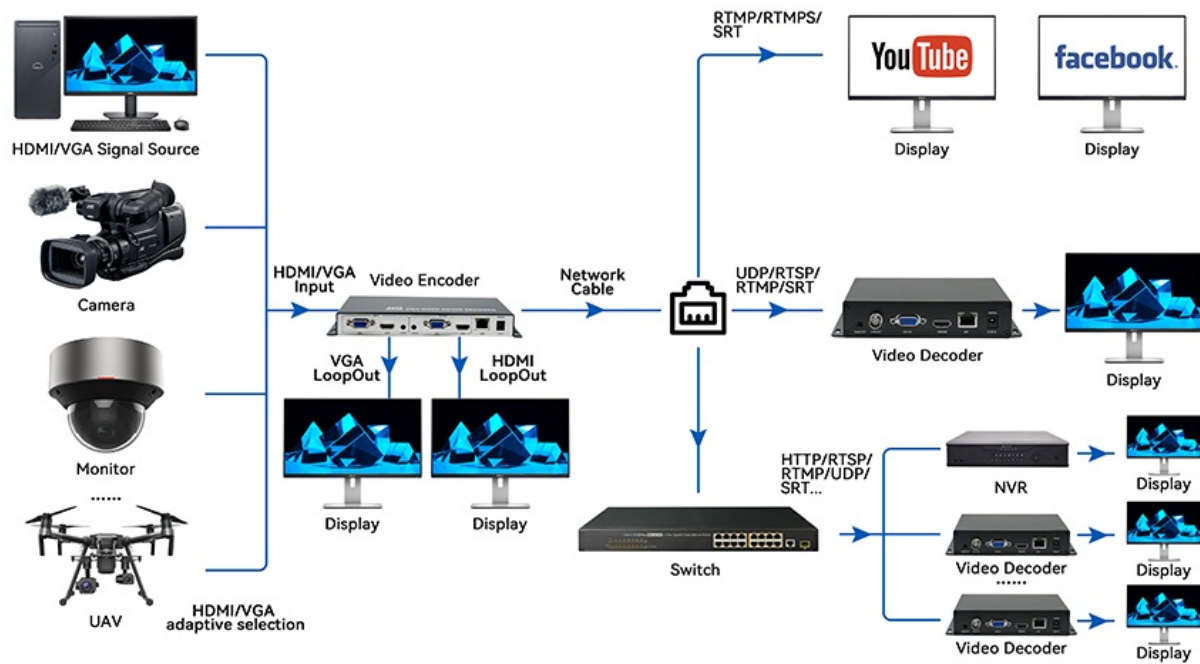
1. **Connect Video Source:** Connect your HDMI or VGA video source (e.g., PC, camera, monitor, DVD player) to the corresponding HDMI or VGA input port on the encoder.
2. **Connect Audio Source (Optional):** If using external audio, connect your audio source to the Audio input port.
3. **Connect Local Displays (Loop-out):** For local monitoring, connect HDMI or VGA displays to the HDMI Loopout and VGA Loopout ports.
4. **Network Connection:** Connect an Ethernet cable from the encoder's LAN port to your network router or switch.
5. **Power Connection:** Connect the 12V DC power adapter to the encoder's 12VDC port and plug it into a power outlet. If using POE (Power over Ethernet), ensure your network switch supports POE and connect the Ethernet cable.

# Connection Diagram



**Figure 4.1:** Basic connection diagram illustrating how to connect video sources (PC, camera, monitor, DVD), local loop-out displays, and network for streaming to various platforms.

## Connection Diagram



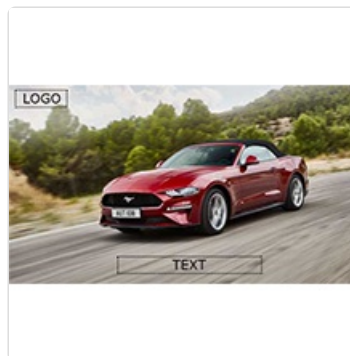
**Figure 4.2:** Advanced connection diagram showing integration with multiple signal sources, local displays, network switches, and various streaming/recording destinations including YouTube, Facebook, video decoders, and NVRs.

## 5. OPERATING INSTRUCTIONS

Once the encoder is connected, you can configure and manage it via its web interface.

### 5.1 Accessing the Web Interface

1. Ensure your computer is on the same network as the encoder.
2. Open a web browser and enter the encoder's IP address (refer to your network settings or default IP if provided in documentation).
3. Log in using the provided credentials (default username/password are usually 'admin'/'admin' or similar, check product documentation).



**Figure 5.1:** Example screenshot of the encoder's web interface, providing access to system information and configuration settings.

### 5.2 Configuring Video and Audio Settings

- Navigate to the "Encoder" or "Video Settings" section in the web interface.
- Select your desired input source (HDMI or VGA).

- Configure video resolution (up to 1080P@60Hz), frame rate, and bitrate.
- Adjust audio encoding settings (AAC/G.711) and bitrate.



**Figure 5.2:** The encoder supports AAC and G.711 audio encoding for high-quality audio transmission.

### 5.3 Streaming Configuration

The encoder supports various streaming protocols. Configure your desired protocol and destination.

## Protocols



**Figure 5.3:** The encoder supports a wide range of streaming protocols including RTMP, RTMPS, RTSP, SRT, HLS, UDP/RTP, Multicast, HTTP, and Onvif.



- Select the streaming protocol (e.g., RTMP for YouTube/Facebook Live).
- Enter the streaming server URL and stream key/name provided by your streaming platform.
- Save your settings and start the stream.

## 6. SPECIFICATIONS

Detailed technical specifications for the ORIVISION EHV1401 encoder (Model ZY-EHV101).

Model	ZY-EHV101
Video	
Input Interfaces	1×HDMI 1.4 and VGA (HDCP1.4)
Support Resolution	1920*1080,1280*720,1280*800,1280*768,1024*768,1024*576,960*540,850*480,800*600,720*576,720*540,720*480,720*404,704*576,640*480,640*360,480*270,Auto
Frame rate	5-60hz
Output interfaces	1×Ethernet port (RJ45), 1×HDMI and VGA Loop-out
Video Encoding	H.265&H.264
Code Rate	16kbps- 12Mbps
Delayerd	CBR/VBR
Audio	
Input interfaces	1×External audio, HDMI and VGA built-in Audio
Output interfaces	1×External audio
Audio encoding	ACC, G711
Network	
RJ45	1000M Ethernet port
Program Streaming	HTTP, RTSP, RTMP/RTMPS, SRT, GB28181, HLS, FLV, ONVIF, Multicast: UDP/RTP
General	
Dimension(W*L*H)	8.5*4.4*0.98in(217*112*25mm)
Gross Weight	0.35kg
Temperature	0 ~ 45°C ( for working ) , -20~60°C ( for storing)
Humidity	<90%, non-condensing
Input Voltage	DC 12V/1A
Power Consumption	5W

Figure 6.1: Comprehensive specifications table for the ZY-EHV101 model, detailing video input/output, supported resolutions, encoding, audio interfaces, network features, and general device parameters.

### ORIVISION EHV1401 (Model ZY-EHV101) Specifications

Category	Parameter	Value
	Input Interfaces	1x HDMI 1.4 and VGA (HDCP1.4)

Category	Parameter	Value
Video	Support Resolution	1920*1080, 1280*720, 1280*800, 1280*768, 1024*768, 1024*576, 960*540, 850*480, 800*600, 720*576, 720*540, 720*480, 720*404, 704*576, 640*480, 640*360, 480*270, Auto
	Frame rate	5-60Hz
	Output interfaces	1x Ethernet port (RJ45), 1x HDMI and VGA Loop-out
	Video Encoding	H.265 & H.264
	Code Rate	16kbps - 12Mbps
Audio	Input interfaces	1x External audio, HDMI and VGA built-in Audio
	Output interfaces	1x External audio
	Audio encoding	AAC, G.711
Network	RJ45	1000M Ethernet port
	Program Streaming	HTTP, RTSP, RTMP/RTMPS, SRT, GB28181, HLS, FLV, ONVIF, Multicast: UDP/RTP
General	Dimension (W*L*H)	8.5*4.4*0.98in (217*112*25mm)
	Gross Weight	0.35kg
	Temperature	0 ~ 45°C (for working), -20~60°C (for storing)
	Humidity	<90%, non-condensing
	Input Voltage	DC 12V/1A
	Power Consumption	5W



## Size



## Interfaces

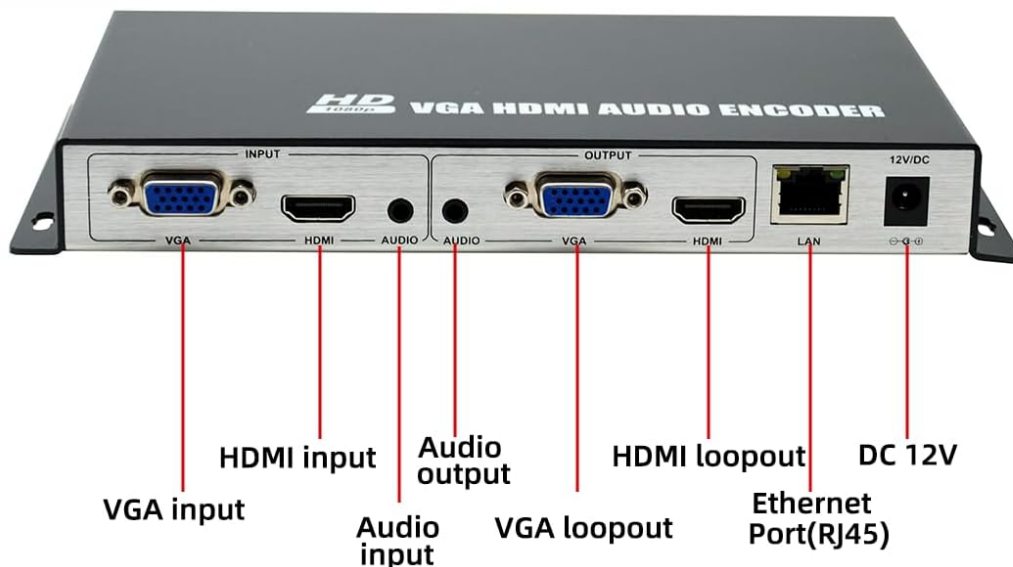


Figure 6.2: Physical dimensions of the ORIVISION EHV1401 encoder.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ORIVISION EHV1401 encoder.

- **No Video Output:**

- Check all HDMI/VGA cable connections. Ensure they are securely plugged in.
- Verify the input source is active and outputting a signal.
- Confirm the resolution and refresh rate of the input source are supported by the encoder (refer to specifications).
- Ensure the correct input source is selected in the encoder's web interface.

- **No Network Connectivity:**

- Check the Ethernet cable connection to the encoder and your network device.

- Verify network settings (IP address, subnet mask, gateway) in the encoder's web interface.
- Ensure your network router/switch is functioning correctly.
- **Streaming Issues (Buffering, Disconnections):**
  - Check your internet connection speed and stability.
  - Reduce the video bitrate in the encoder settings if your internet upload speed is insufficient.
  - Verify the streaming server URL and stream key/name are correct.
  - Ensure no firewall or network security settings are blocking the streaming protocols.
- **No Audio:**
  - Check audio cable connections (if using external audio).
  - Ensure audio is enabled and correctly configured in the encoder's web interface.
  - Verify the audio source is active and producing sound.

## 8. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your ORIVISION EHV1401 encoder.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the encoder is placed in a well-ventilated area to prevent overheating. Do not block ventilation openings.
- **Firmware Updates:** Periodically check the ORIVISION website for firmware updates. Keeping the firmware updated can improve performance and add new features.
- **Storage:** If storing the device for an extended period, ensure it is kept in a cool, dry place within the specified storage temperature range (-20~60°C).

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation included with your purchase or visit the official ORIVISION website. You can also contact ORIVISION customer service for assistance with product setup, operation, or troubleshooting.

**Manufacturer:** Nantong ZYDZ Electronic Co.,Ltd.

**Brand:** ORIVISION