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UNISHEEN BM1000H

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UNISHEEN BM1000H HDMI Video Encoder Instruction Manual

Model: BM1000H

Brand: UNISHEEN

1. INTRODUCTION

The UNISHEEN BM1000H is a compact and powerful HDMI video encoder designed for professional live streaming and video transmission applications. It supports H.265/H.264 encoding, multiple streaming protocols (SRT, RTMP, RTSP, UDP, RTP, HLS, FLV), and offers web-based management for flexible configuration. This manual provides detailed instructions for setting up, operating, and maintaining your BM1000H encoder.

2. PRODUCT OVERVIEW

2.1 Package Contents

- UNISHEEN BM1000H HDMI Video Encoder
- Power Adapter (DC 12V)
- User Manual (this document)

2.2 Device Layout

The BM1000H encoder features a straightforward interface for easy connection and operation.



Figure 1: Front View of BM1000H Encoder

Key ports and indicators:

- **LAN:** Ethernet port for network connection.
- **HDMI IN:** HDMI input for video source.
- **RST:** Reset button.
- **AUDIO IN:** 3.5mm audio jack for external audio input.
- **DC 12V:** Power input port.
- **LED Indicators:** Status lights for power and network activity.

SUPPORTS MULTIPLE PROTOCOLS DUAL STREAM LIVE

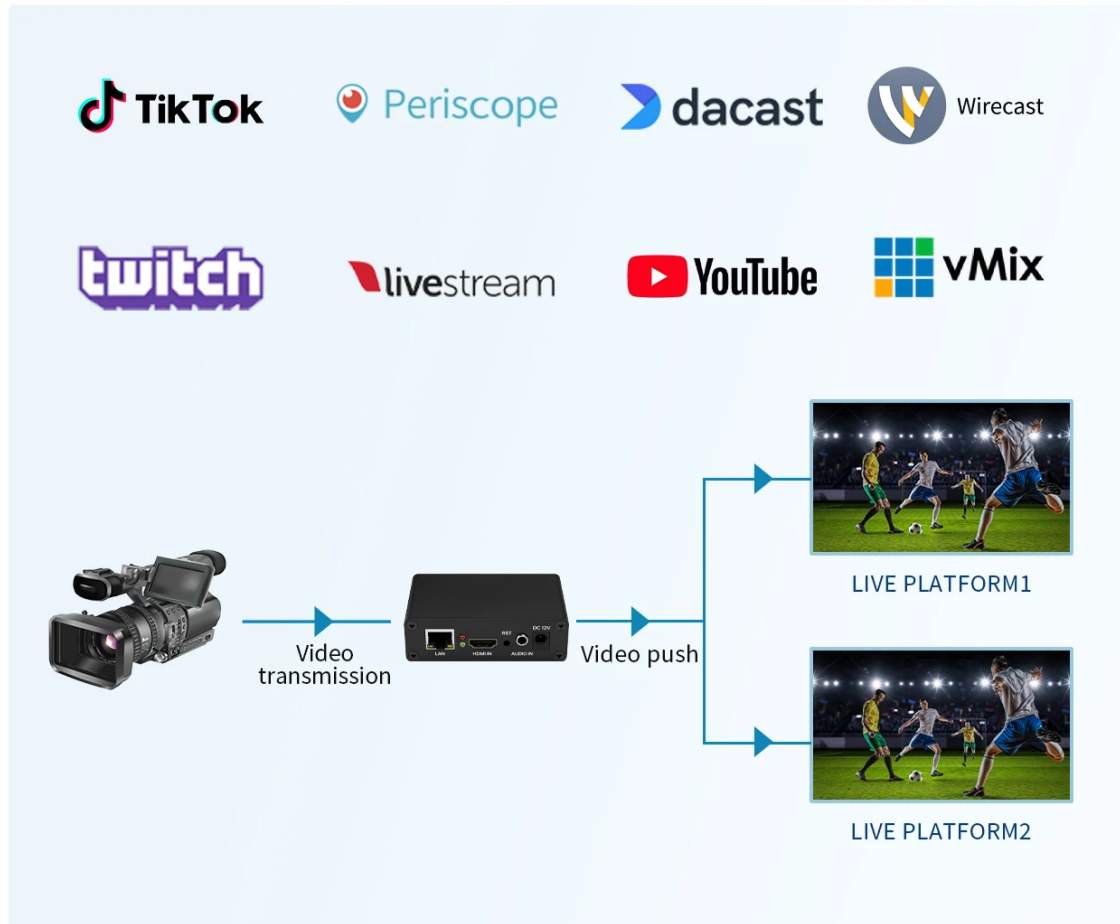


Figure 2: Various Views of the Encoder and Power Adapter

3. SETUP AND CONNECTION

Follow these steps to set up your UNISHEEN BM1000H encoder.

3.1 Basic Connection Diagram

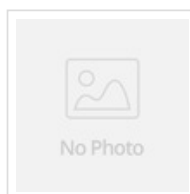


Figure 3: WAN and LAN Connection Diagrams

The BM1000H encoder supports both WAN (Internet streaming) and LAN (local network playback/decoding) connections.

3.2 WAN Connection (Live Streaming)

1. Connect your video source (e.g., camera, game console, drone) to the **HDMI IN** port of the encoder using an HDMI cable.
2. If using external audio, connect your audio source to the **AUDIO IN** 3.5mm jack.
3. Connect the **LAN** port of the encoder to your router or network switch using an Ethernet cable.
4. Connect the power adapter to the **DC 12V** port and plug it into a power outlet.
5. Once powered on and connected to the internet via the router/switch, the encoder can push video streams to live platforms like TikTok, Periscope, YouTube, Twitch, Livestream, Dacast, Wirecast, and vMix.

Aerial filming
Conference video
Educational Videos
Live interview
Surgery video



Outdoor Interview

OUTDOOR VIDEO IS SENT BACK IN REAL TIME

Surgery Video

MEDICAL SURGERY VIDEO TRANSMISSION

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Educational Video

ONLINE CLASS LIVE VIDEO TEACHING

Monitoring Security

SURVEILLANCE CAMERA VIDEO STORAGE



Figure 4: WAN Connection for Live Streaming

3.3 LAN Connection (Local Playback/Decoding)

1. Connect your video source (e.g., camera, game console, drone) to the **HDMI IN** port of the encoder using an HDMI cable.
2. If using external audio, connect your audio source to the **AUDIO IN** 3.5mm jack.
3. Connect the **LAN** port of the encoder to your router or network switch using an Ethernet cable.
4. Connect the power adapter to the **DC 12V** port and plug it into a power outlet.
5. For local playback, connect a computer running playback software or a hardware decoder to the same network switch. The decoder/software can then receive the stream from the encoder and display it on a screen or projector.

UNISHEEN

ENCODER

CONNECTION DIAGRAM

One-click restore to default
Separate Audio or Video Stream
Gigabit Ethernet port
Indicator light

WAN CONNECTION

VIDEO SOURCE



Drone



Game console



Camera



Video encoder



Mixer

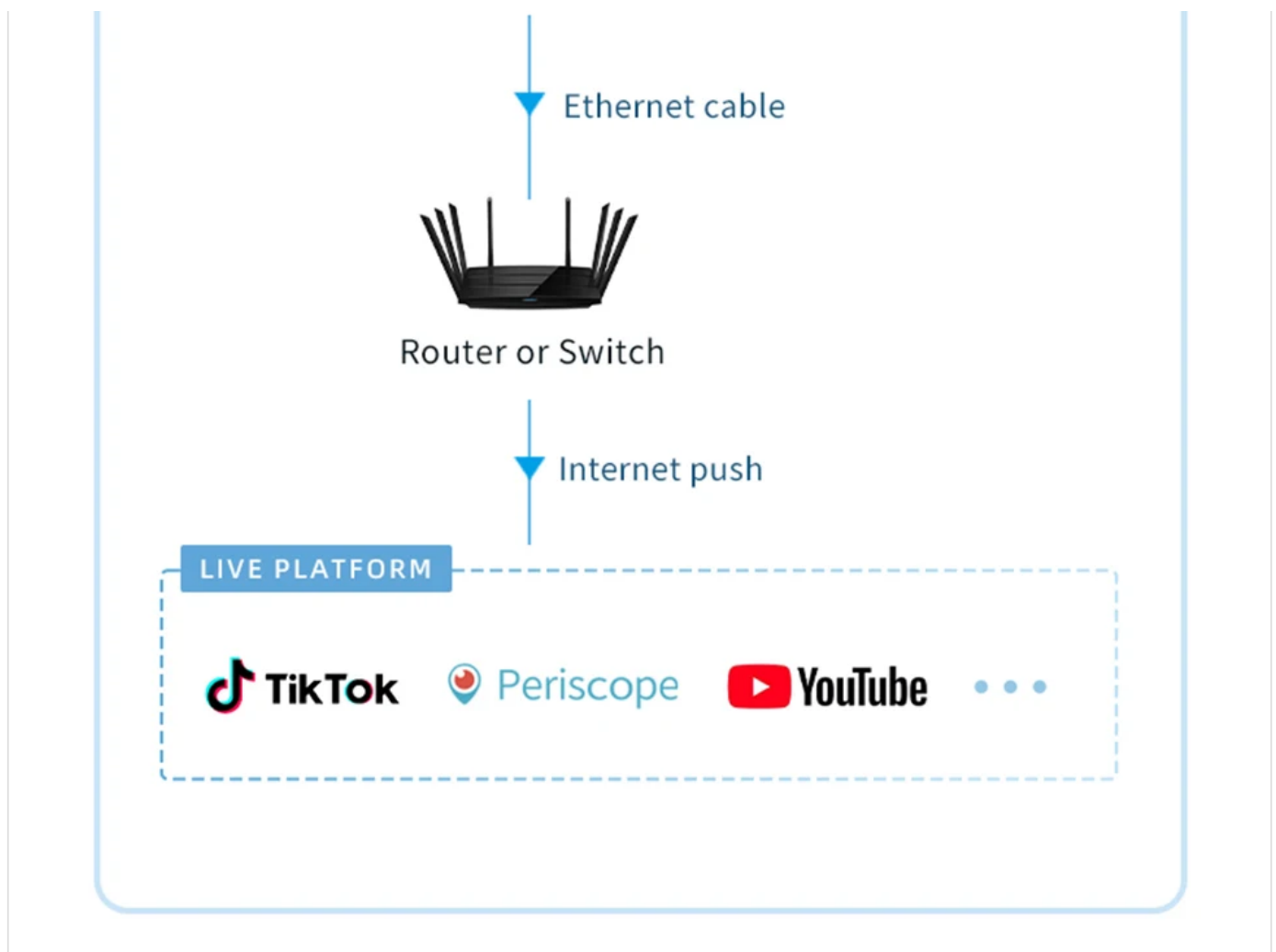
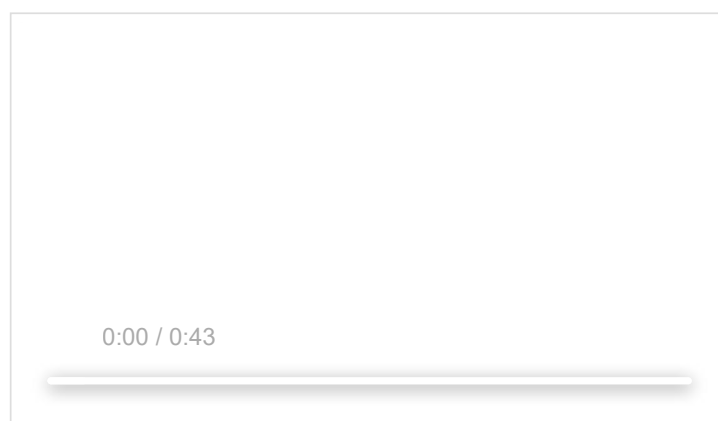


Figure 5: LAN Connection for Local Playback

3.4 Setting up with NVR (Network Video Recorder)

This video demonstrates how to connect the encoder to a network switch and then add it to an NVR system for recording and monitoring.



Video 1: How to set up the UNISHEEN BM1000H with an NVR. This video shows connecting the encoder and NVR to a switch, then configuring the NVR to detect and add the encoder as an IP camera.

Steps for NVR Integration:

1. Connect the encoder's LAN port to a network switch.
2. Connect the NVR's LAN port to the same network switch.

3. Access the NVR's interface (usually via a connected monitor and mouse).
4. Navigate to the Network settings and ensure proper IP configuration (e.g., DHCP or static IP within your network range).
5. Go to the Channel or IP Camera settings.
6. Use the "Search" function to discover the encoder on the network.
7. Select the encoder from the discovered devices and add it to an available channel. You may need to modify its IP address if there are conflicts.
8. Once added, the NVR should display the video feed from the encoder.

4. OPERATING THE ENCODER

4.1 Web Management Interface

The BM1000H encoder is managed via a web-based interface, allowing for comprehensive configuration of streaming parameters.

WAN CONNECTION LAN CONNECTION

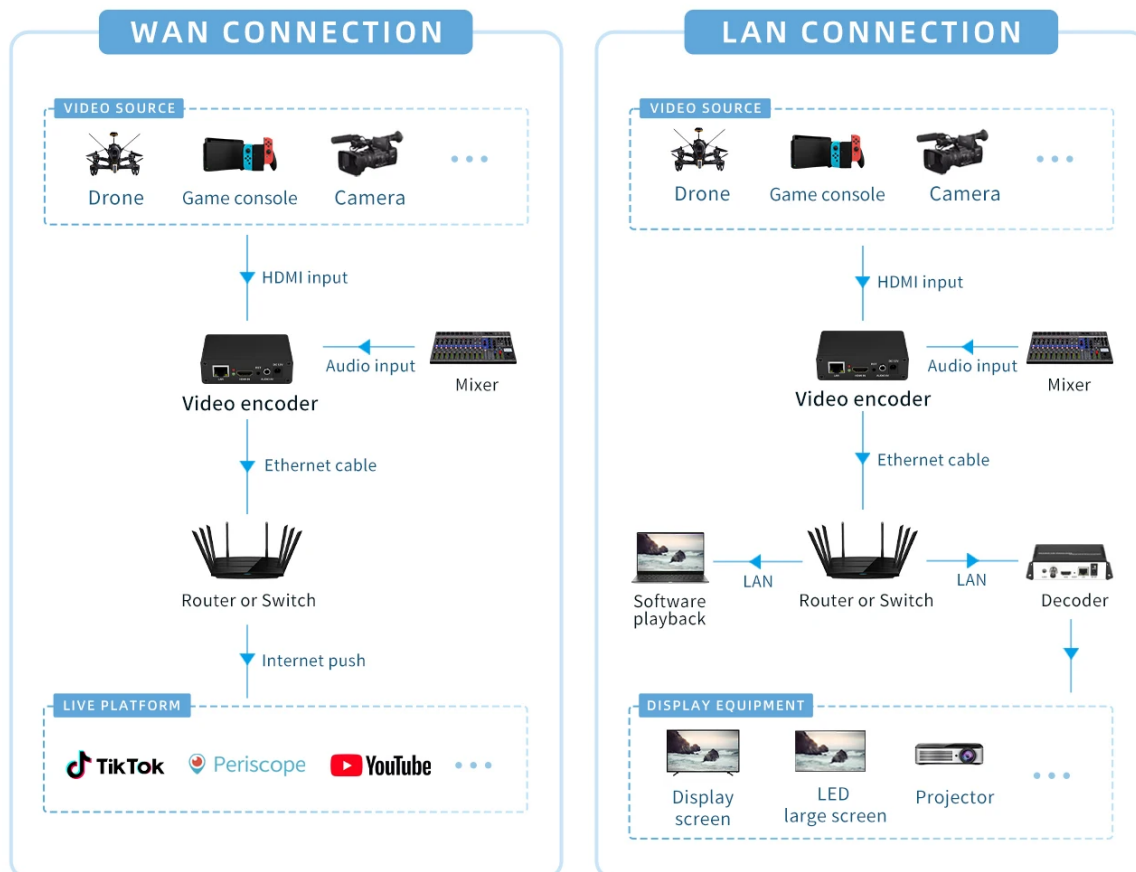


Figure 6: Web Management Interface Settings

To access the web interface:

1. Ensure the encoder is connected to your network (as described in Section 3).
2. Find the IP address of the encoder. This can often be done through your router's connected devices list or by using a network scanning tool.
3. Open a web browser on a computer connected to the same network.
4. Enter the encoder's IP address into the browser's address bar.
5. Log in using the default credentials (refer to the device's label or contact support if unknown).

Through the web interface, you can configure various settings including:

- **OSD settings:** On-Screen Display configurations.
- **Web playback:** Enable/disable direct web playback of the stream.

- **Add logo:** Overlay a custom logo on the video stream.
- **Add subtitles:** Add subtitles to the video output.
- **Encoding switch:** Toggle between different encoding profiles or start/stop encoding.
- **Screen mirroring:** Mirror the video output.
- **Screen rotation:** Rotate the video output.
- **Screen flip:** Flip the video output horizontally or vertically.
- **Screen crop:** Crop specific areas of the video.
- **Restart regularly:** Schedule automatic restarts for maintenance.

4.2 Supported Protocols and Dual Stream

The encoder supports a wide range of protocols for versatile streaming and can output dual streams simultaneously.

WEB MANAGEMENT FREE SETTINGS

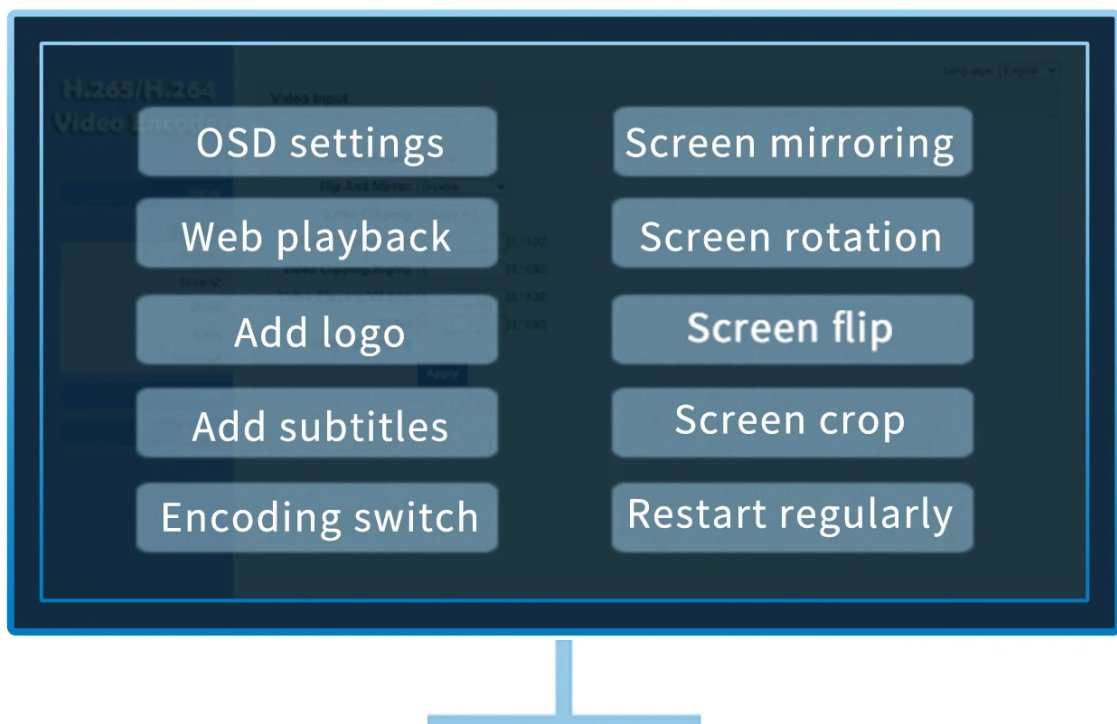


Figure 7: Supported Protocols and Dual Stream Live

The BM1000H supports UTP, HTTP, RTSP, RTMP, HLS, FLV, UDP, and other protocols, making it compatible with major live broadcast platforms. It can simultaneously stream to two different platforms.

5. SPECIFICATIONS

Detailed technical specifications for the UNISHEEN BM1000H HDMI Video Encoder.

UNISHEEN

BM1000-H

HDMI HD VIDEO LIVE ENCODER

Up to 1080p30 Output

Private low-latency protocol

H.265 encoding



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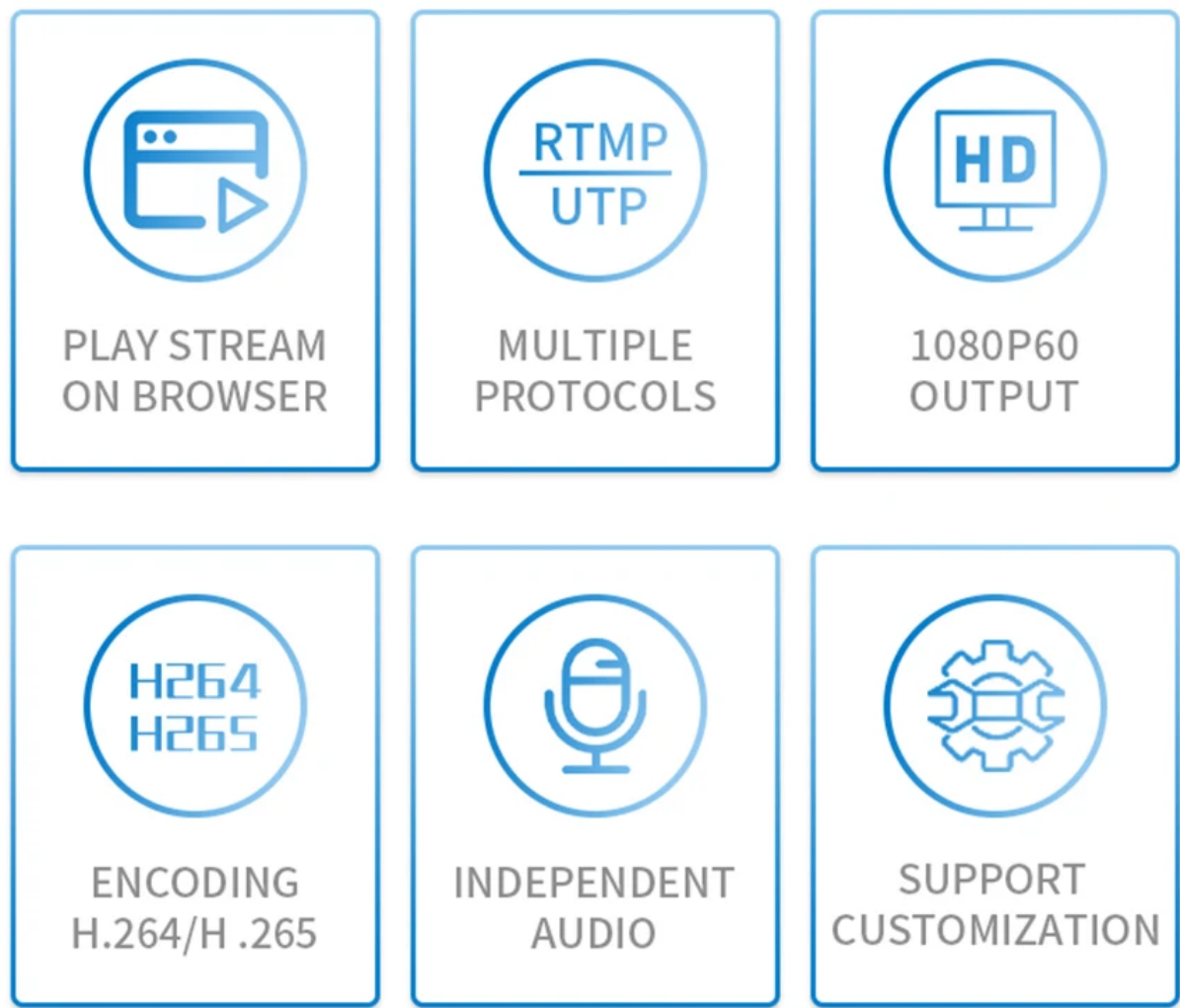


Figure 8: Detailed Product Specifications

Category	Parameter	Value
Video	Input	1x HDMI (1.4) HDCP
	Input Resolution	1920x1080@60P/50p, 1920x1080@60i/50i, 1280x720@60p/50p, 720x576i, 720x480i
	Encoding	H.265 H.264/AVC Baseline/Main/High Profile Level 4.2
	Encoding Output FPS	Up to 1080P30
	Data Rate	0.16Mbps~32Mbps

Category	Parameter	Value
	Rate Control	CBR/VBR
	GOP Structure	IBBP
	Advanced Pretreatment	De-interlacing, Image Enhancement, Noise Reduction, Sharpening
	Latency Time	100ms
	Video Codec	H.265 HEVC/H.264 AVC/Mjpeg
Audio	Input	1x HDMI Embedded, 1x 3.5mm jack
	Encoding	AAC/AAC+/AAC++/MP3/MP2/AC3/G.711A/U
	Audio Re-sample Rate	44100/48000 Hz
	Bit-rate	32K/48K/64K/96K/128K/160K/192K/384K
	Sampling precision	24 bit
System	Ethernet	100M Base-T Full Duplex
	Protocol	SRT/RTSP/RTMP/UDP/RTP/UTP/HTTP/HLS/FLV/Onvif/Multicast/Unicast
	Control Interface	Website or CGI command or App
General	Dimension (W× L× H)	54x90x29mm (50x75mm PCBA)
	Net Weight	0.1kg
	Temperature	0-45°C (work), -20-80°C (storage)
	Power	DC 9-12V 1A
	Consumption	5W

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the UNISHEEN BM1000H encoder.

- **No video output/signal:**

- Check all HDMI cable connections. Ensure the HDMI source is active and outputting a compatible resolution (up to 1080p60).
- Verify the encoder is powered on (check LED indicators).
- Ensure the input resolution is supported by the encoder (refer to specifications).
- If using an NVR, ensure the encoder is correctly added and configured in the NVR's settings (refer to Section 3.4).

- **No network connection:**

- Check the Ethernet cable connection to both the encoder and the router/switch.
- Verify network activity LEDs on the encoder and switch.
- Ensure the encoder has a valid IP address on your network. This can often be done through your router's DHCP client list or by using a network scanning tool.
- If using a static IP, ensure it's correctly configured and not conflicting with other devices.

- **Cannot access web management interface:**

- Confirm the encoder is powered on and connected to the network.
- Ensure your computer is on the same network as the encoder.
- Double-check the IP address entered in the browser.
- Try clearing your browser's cache or using a different browser.
- If you suspect an IP conflict, try resetting the encoder to factory defaults (using the RST button) and reconfiguring.

- **Streaming issues (buffering, dropped frames):**

- Check your internet connection speed and stability, especially for WAN streaming.
- Reduce the video bitrate or resolution in the web management settings.
- Ensure your network bandwidth is sufficient for the chosen streaming quality.
- Close other applications consuming network bandwidth.

- **No audio:**

- Verify the audio source is connected correctly to the 3.5mm AUDIO IN jack or embedded in the HDMI signal.
- Check audio settings in the web management interface to ensure audio encoding is enabled and correctly configured.
- Ensure the receiving device (decoder, NVR, streaming platform) is configured to receive and play audio.

7. MAINTENANCE

To ensure optimal performance and longevity of your UNISHEEN BM1000H encoder, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block ventilation openings.
- **Power Supply:** Use only the provided power adapter. Disconnect power during lightning storms or when unused for long periods.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates. Updates can improve performance, add features, and fix bugs. Follow the provided instructions carefully when updating firmware.
- **Storage:** If storing the device for an extended period, ensure it is in a cool, dry place, away from direct sunlight and extreme temperatures.

8. USER TIPS

Here are some helpful tips from other users and common questions:

- **IP Address Discovery:** If you're having trouble finding the encoder's IP address, many routers have a "connected devices" or "DHCP client list" section in their administration panel where you can see all devices connected to your network and their assigned IPs.
- **Resetting to Factory Defaults:** If you encounter persistent configuration issues, using the RST button to reset the device to factory defaults can often resolve them. Remember to reconfigure all settings afterward.
- **Dual Streaming:** Take advantage of the dual-stream capability to send a high-quality stream for recording/archiving and a lower-quality stream for live broadcast to conserve bandwidth.
- **Audio Sync:** If you experience audio/video sync issues, check the advanced settings in the web interface for options related to audio delay or synchronization.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact UNISHEEN customer service. Details can typically be found on the manufacturer's official website or through your point of purchase.

You can also refer to the contact information provided by the seller: