iVcan Product Documentation

Vcan2090s

Analog CVBS / AHD / TVI to Ethernet IP Video Encoder Board

Specification Sheet & User Manual

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www.ivcan.com

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Document Scope and Version

Document: VCN-2090S-UM-V1.0 | **Revision:** 1.0 | **Date:** 2026-11-28 | **Language:** English

Product: Vcan2090s — analog video to IP streaming encoder board (CVBS / AHD / TVI input, H.264 / H.265 Ethernet stream output)

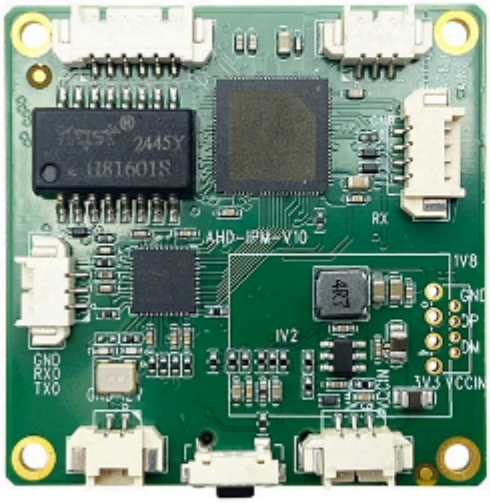
Source products merged into this document:

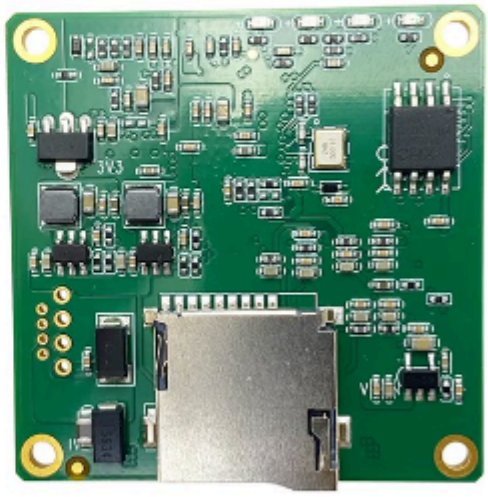
Source	Product page	Website SKU	Role in this document
Standard version	Analog CVBS AV Video to Ethernet IP Video Stream Converter Board (https://ivcan.com/p/cvbs-av-video-to-ethernet-ip-video-stream-converter-board/)	Vcan2090s	Full-feature AHD / TVI / CVBS encoder, SSC335 + PR2000K, 1080p30 streaming
Low-signal stable version	CVBS to Ethernet IP Encoder — stable in weak signal, low signal lock (https://ivcan.com/p/cvbs-to-ethernet-ip-encoder-stable-in-weak-signal-proof-low-signal-lock/)	Vcan20902	Upgraded CVBS encoder with weak-signal stability, 7–24 V input

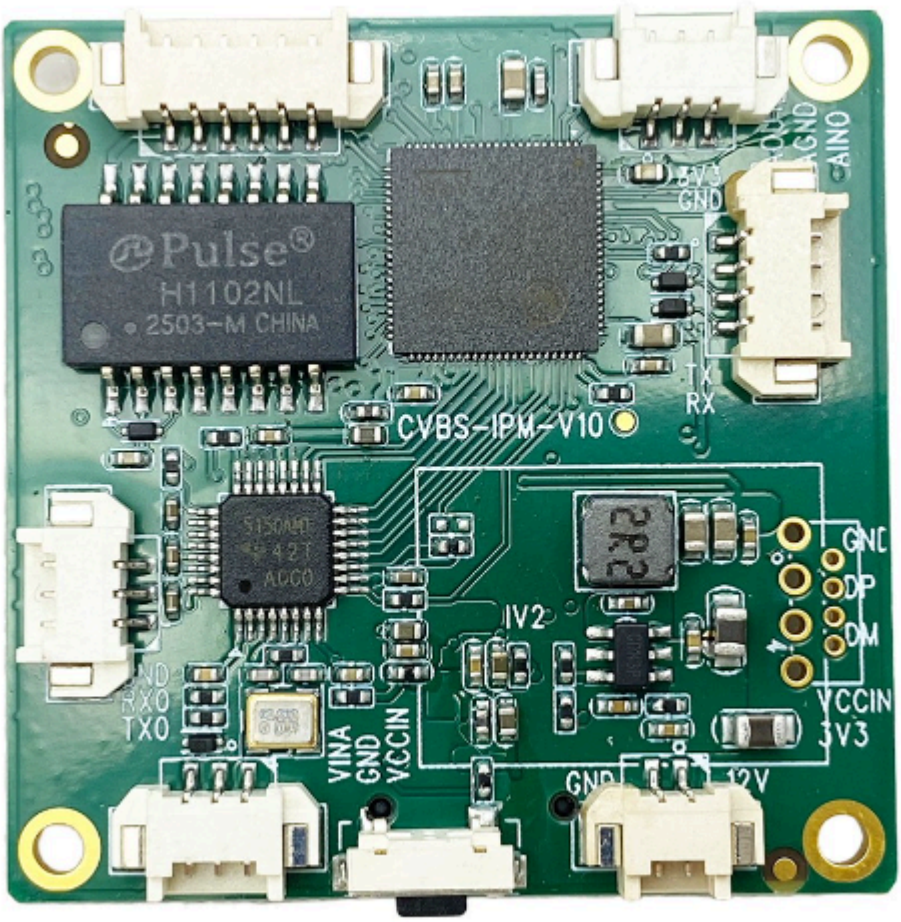
> **Model naming convention:** All configurations described in this document are unified under the model **Vcan2090s**. The upgraded low-signal-stable configuration is referred to as **Vcan2090s (Low-Signal Stable Edition)**; its

> former web SKU Vcan20902 is retained only as an ordering cross-reference.

CVBS AV Video to Ethernet IP Video Stream Converter Board






Pulse®
H1102NL
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CVBS-IPM-V10
TX
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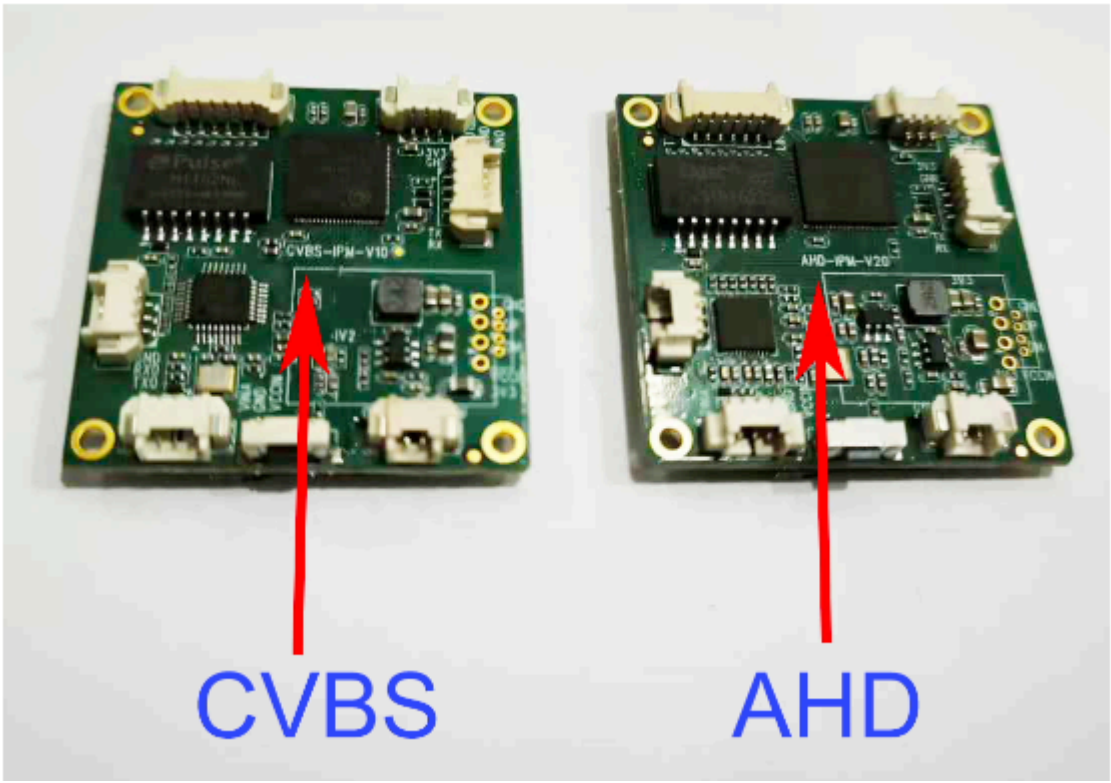
CVBS-IPM-V10
AHD-IPM-V20
CVBS
AHD

1. Product Overview

The Vcan2090s is a compact, low-power encoder board that converts analog composite video (CVBS) or AHD / TVI analog camera signals into a real-time IP video stream over Ethernet. It lets existing analog cameras, FPV receivers and wireless video links join modern IP networks without replacing the camera or the cabling.

The board encodes the incoming analog signal with H.264 or H.265 and delivers it through RTSP, RTMP, HTTP, UDP, ONVIF and other protocols. A web browser is used for configuration; no PC software is required for normal operation.

The **Low-Signal Stable Edition** addresses a specific weakness of conventional analog-to-IP converters: when the RF link becomes weak or noisy, ordinary encoders lose video synchronization and freeze, reboot, or stop streaming. The Vcan2090s Low-Signal Stable Edition uses improved sync detection and buffering logic so that the IP stream stays alive while the analog input degrades, and video recovers automatically when the signal returns.

1.1 What the board does

- Converts **one** analog CVBS / AHD / TVI input into a network video

stream.

- Produces a main stream up to **1920×1080@30 fps** and independent sub-streams for low-bandwidth viewing.
- Carries audio via MIC / line input and supports **two-way voice intercom**.
- Records or snapshots to a TF card, supports OSD text, motion / human detection and alarm output.
- Accepts **DC 6–24 V** depending on board configuration, with optional PoE and optional Wi-Fi / 4G / GPS modules.

1.2 Version matrix

Item	Vcan2090s (Standard)	Vcan2090s (Low-Signal Stable Edition)
Analog input	CVBS / AHD / TVI, auto-detect	CVBS (PAL / NTSC), optimized for weak or unstable RF links
Main chipset	SSC335 + PR2000K 3-in-one acquisition	SSC335 platform with enhanced sync detection / buffering
Typical silk print	AHD-IPM-V10 / AHD-IPM-V20	CVBS-IPM-1.0
Video encoding	H.264 / H.265	H.264 default, H.265 optional
Max. main stream	1920×1080@30, 1280×720@30, 720×576@25	720×576 (PAL) / 720×480 (NTSC), upscaled output available
DC input	6–12 V	7–24 V

Item	Vcan2090s (Standard)	Vcan2090s (Low-Signal Stable Edition)
Best for	Analog CCTV upgrade, AHD cameras, general AV-over-IP	UAV / FPV VRX links, wireless video, unstable RF environment
Web SKU reference	Vcan2090s	Vcan20902

1.3 Key benefits

- **One board, many analog sources** — CVBS, AHD and TVI are auto-recognized on the standard version.
- **Stream stays up in weak signal** — designed for wireless analog video where signal quality fluctuates.
- **Low latency, low bitrate** — H.265 ultra-low-bitrate encoding with configurable 32 kbps–8 Mbps.
- **Standard protocols** — RTSP, RTMP, HTTP, UDP, ONVIF, GB28181, MQTT, WebRTC; easy NVR / VMS / player integration.
- **Expandable** — USB for Wi-Fi / 4G, TF storage up to 256 GB, TTL serial for IoT devices, optional GPS and extra Ethernet port.
- **Small and light** — 38.8 × 38.8 mm, about 9.5 g; suitable for drones, vehicles and embedded enclosures.

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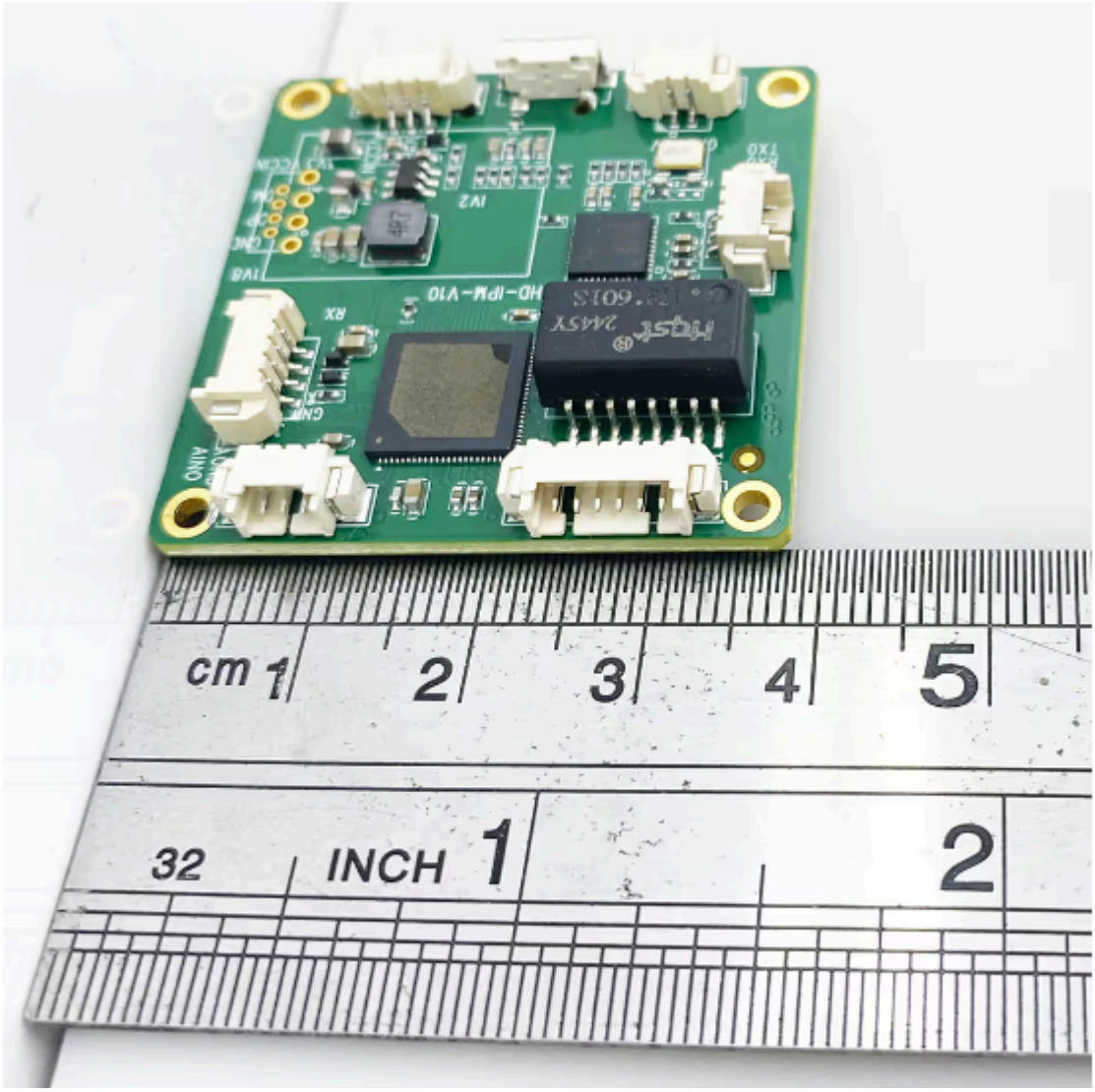
2. Applications

Scenario	How the Vcan2090s is used
Analog CCTV upgrade	Connect existing CVBS / AHD / TVI cameras and stream to an IP NVR without replacing cameras.
UAV / FPV ground station	Feed an analog VRX CVBS output into the board, then stream RTSP over Wi-Fi / Ethernet to the ground station.
Wireless video receiver systems	Convert VRX output to Ethernet for NVR recording, PC monitoring or network distribution.
Mobile surveillance vehicles	Keep video streaming while the wireless link fluctuates during movement.
Industrial / construction monitoring	Network analog cameras over existing coax or wireless links for remote viewing.
Long-distance RF video transmission	Convert remote analog video to IP at the receiving end for LAN or Internet distribution.
IoT integration	Use the TTL serial port and MQTT / SDK to connect video with sensor or control systems.
Internet live streaming	Push RTMP streams to a platform or private server.

[图片: D:/workbuddy/2026-11-28-07-49-55/output/vcan2090s-spec-manua]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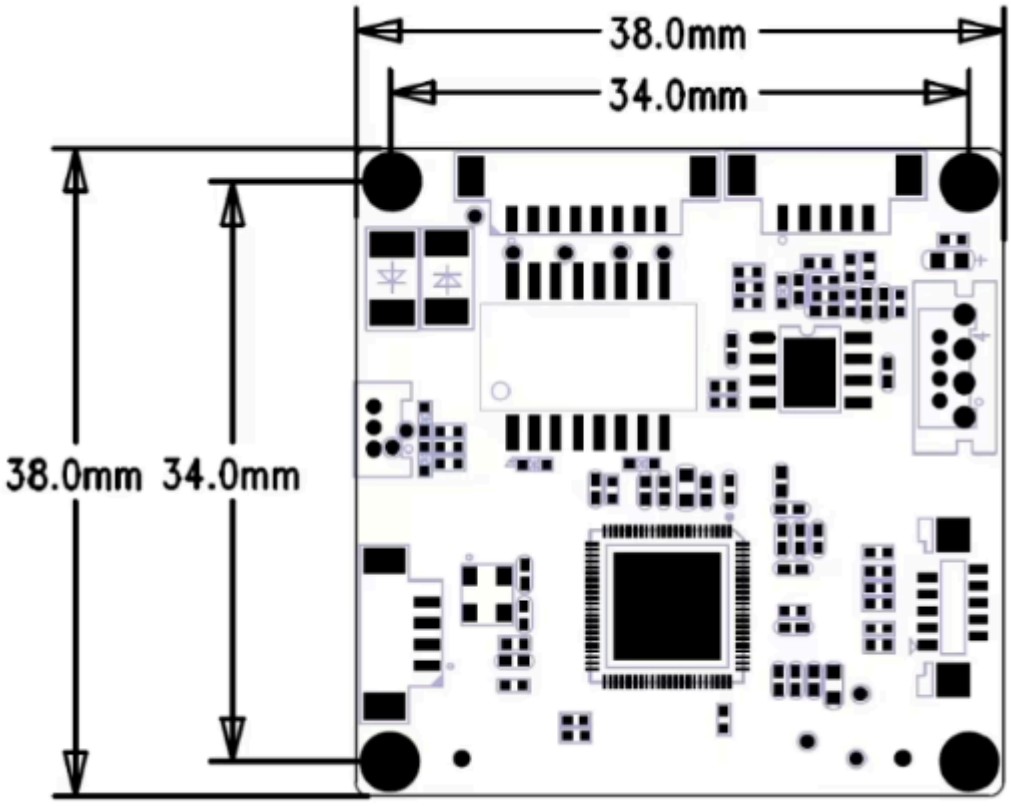



3. Technical Specifications

The following tables consolidate the published parameters of both Vcan2090s configurations. Values depending on firmware or board revision are marked accordingly.

3.1 General

Parameter	Specification
Model	Vcan2090s (including Low-Signal Stable Edition)
Main control	SSC335
Video acquisition	PR2000K AHD / CVBS / TVI three-in-one acquisition chip (standard version)
Firmware features	H.264 / H.265 encoding, OSD, motion detection, human detection, sound alarm, TF recording, two-way audio
Channels	1 analog video input (single-channel capture only)

3.2 Video input

Parameter	Specification
Input type	CVBS composite; AHD / TVI auto-detection on standard version
Connector	RCA or pin header, depending on board version
Video standard	PAL / NTSC auto-detection
Analog resolution	PAL 720×576; NTSC 720×480
Input impedance	75 Ω
Format switching	Power off, change input source, then power on again — the board re-detects the format only at startup
Low-signal behavior	Continues processing weak / noisy video instead of showing a fixed "NO SIGNAL" screen; automatic recovery when signal returns

3.3 Video encoding

Parameter	Specification
Compression	H.264 (default), H.265 optional; MJPEG available on custom firmware
Main stream	1920×1080@30, 1280×720@30, 720×576@25 (encoder output; analog input is SD)
Sub-stream	D1, VGA, 640×360
Frame rate	1–30 fps adjustable
Bitrate	32 kbps – 8 Mbps adjustable (typical firmware range 0.1–8 Mbps)
Rate control	CBR / VBR selectable
GOP	Configurable
Latency	Low-latency encoding; actual latency depends on resolution, bitrate, network and player

3.4 Audio

Parameter	Specification
Audio input	1 × MIC input; line-in available on Low-Signal Stable Edition
Audio output	1 × LINE_OUT
Compression	G.711 / AAC
Audio bitrate	Adjustable
Intercom	Two-way voice intercom supported

3.5 Network

Parameter	Specification
Ethernet	1 × RJ45, 10/100 Mbps adaptive, lightning and ESD protection
Protocols	TCP/IP, IPv4, RTSP, HTTP, DHCP, NTP, RTMP, UDP, MQTT, WebRTC; ONVIF and GB28181 supported on standard firmware / optional on Low-Signal Stable Edition
Streaming modes	Unicast and multicast; RTSP over UDP or TCP
Default IP	192.168.1.188
Default RTSP URL	`rtsp://192.168.1.188:554/0`
Web interface	http://192.168.1.188 — user `admin`, password `admin`
Remote monitoring	Mobile phone and PC; multi-platform P2P / WebRTC SDK available for secondary development

3.6 Interfaces and storage

Interface	Quantity	Function
Video input	1	CVBS / AHD / TVI analog video (2-pin or 3-pin cable options; only one is used)
RJ45	1	10/100 Mbps Ethernet
USB	1	Wi-Fi / 4G module expansion; customizable UVC function
TF card	1	Up to 256 GB for recording and playback
MIC input	1	Audio capture
LINE_OUT	1	Audio output

Interface	Quantity	Function
TTL serial	1	Data transmission, IoT device docking
Reset	1	Hardware reset button / interface
Power input	1	DC 6–12 V (standard) or DC 7–24 V (Low-Signal Stable Edition); PoE optional

3.7 Power and environment

Parameter	Specification
Input voltage	DC 6–24 V depending on configuration (standard 6–12 V; Low-Signal Stable 7–24 V)
Power consumption	Typically < 3 W
Operating temperature	−20 °C to +70 °C
Storage temperature	−40 °C to +85 °C
Humidity	5%–95% non-condensing
PoE	Optional on customized versions

3.8 Physical

Parameter	Specification
Board size	38.8 × 38.8 mm (nominal 38 × 38 mm); custom-shaped PCB available
Net weight	Approx. 9.5 g (standard board, modules excluded)
Mounting	Pin header / cable connection; stackable for multi-board installations

Parameter	Specification
Enclosure	Not supplied by default; 2D dimension drawing available on request

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4. Package Contents and Ordering Options

Check the package and select the required add-on modules before installation.

4.1 Standard package

Item	Qty	Note
Vcan2090s encoder board	1	Standard or Low-Signal Stable Edition as ordered
Video / power cable	1	2-pin or 3-pin video cable according to board version
Documentation	1	Web configuration guide and software download links

4.2 Optional add-on modules

Option	Description
Wired Ethernet	Default configuration, RJ45 10/100 Mbps
+ Wi-Fi module	USB Wi-Fi for wireless IP streaming
+ 4G module	4G LTE via USB, ASR1803 platform on expanded versions
+ 4G / Wi-Fi module	Both wireless interfaces on one board

Option	Description
+ 4G / Wi-Fi + GPS module	Adds GPS positioning; some versions provide 2 × Ethernet ports and DC 6–25 V input

Customization: PCB size and shape, connector type and position (SMA / MCX / RJ45 / USB / HDMI), HDMI output, SD recording, metal enclosure, extended temperature range, IP65/IP67 housing, private-label firmware, logo printing, private protocol and cloud-platform integration.

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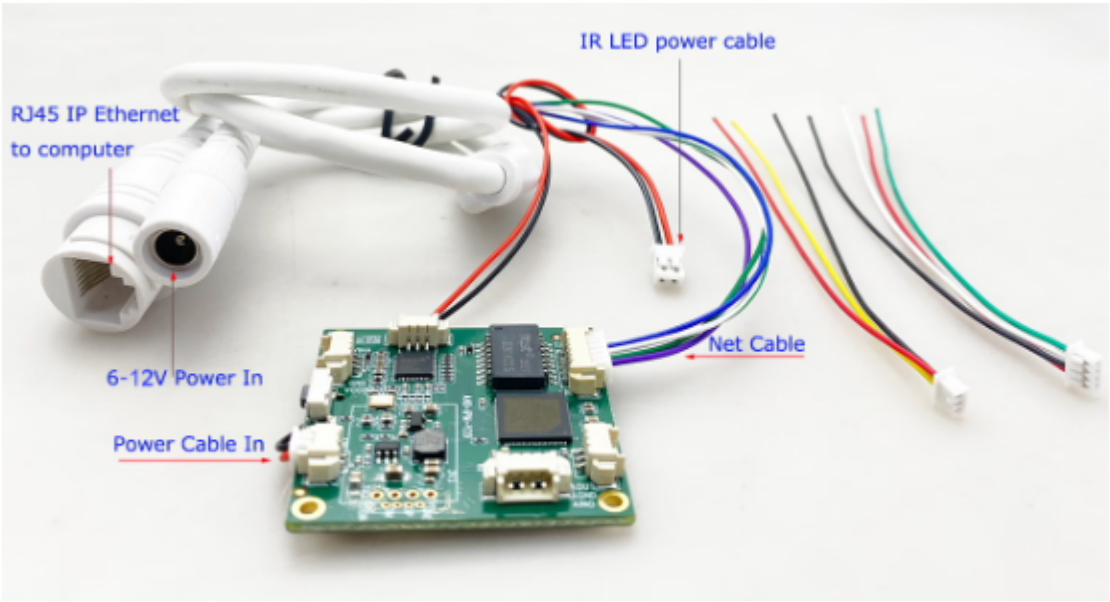
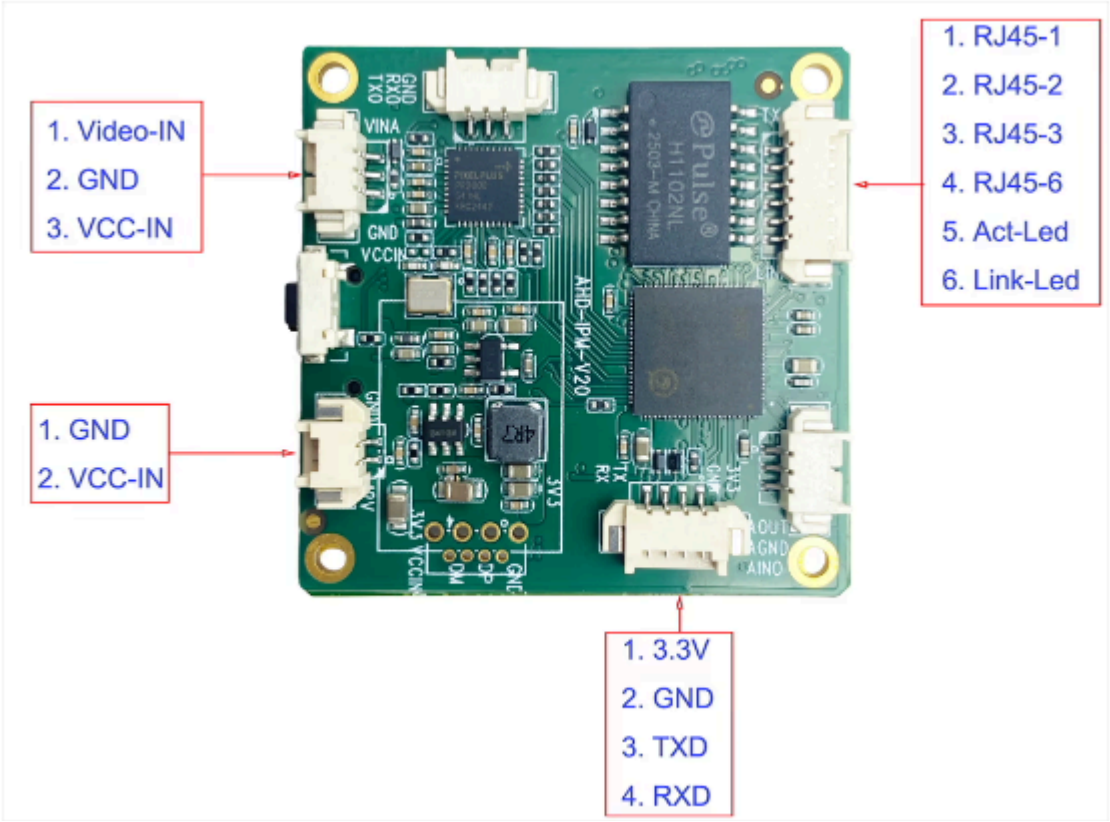
5. Hardware Installation

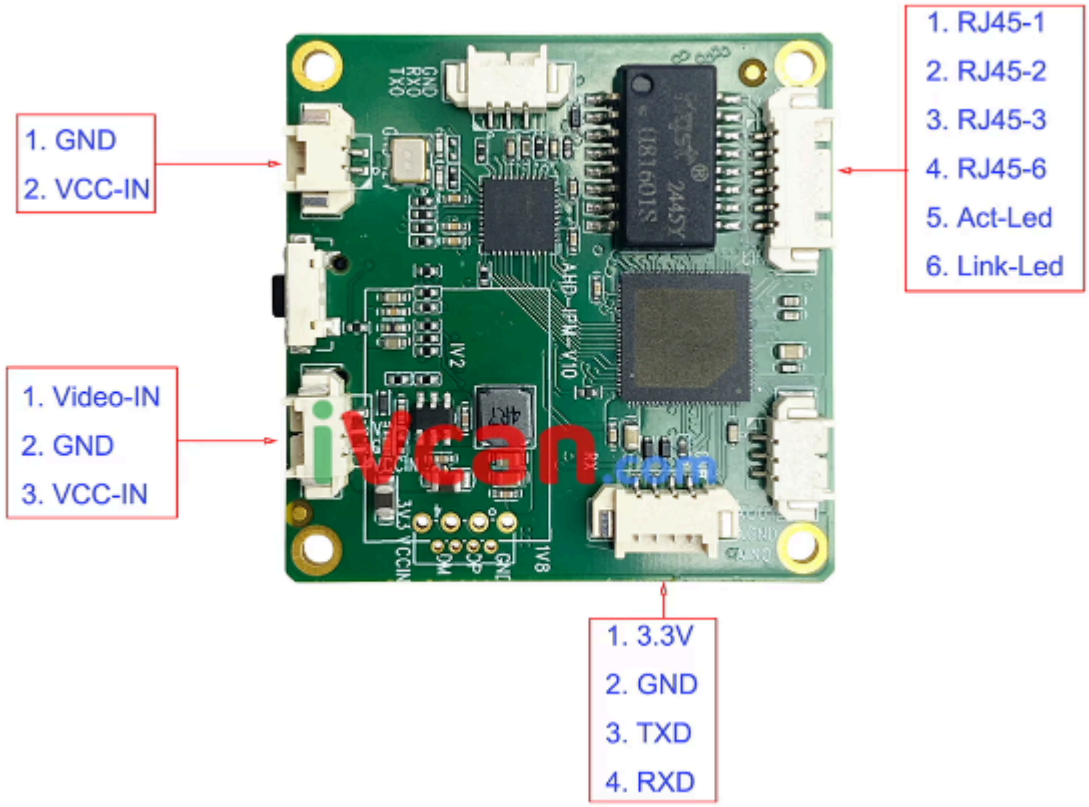
Follow the sequence below to wire, power and verify the board.

5.1 Before you start

1. Confirm the board version and silk print: AHD-IPM-V10 / V20 (standard) or CVBS-IPM-1.0 (Low-Signal Stable).
2. Confirm the camera output format: CVBS, AHD or TVI; PAL or NTSC.
3. Use a regulated DC supply matching the board version: 6–12 V for standard, 7–24 V for Low-Signal Stable.
4. Use a 75 Ω coaxial video cable and keep power and signal wiring tidy.


IR LED power cable
RJ45 IP Ethernet
to computer
Net Cable
6-12V Power In
Power Cable In


1. Video-IN
2. GND
3. VCC-IN
1. RJ45-1
2. RJ45-2
3. RJ45-3
4. RJ45-6
5. Act-Led
6. Link-Led
1. GND
2. VCC-IN
1. 3.3V
2. GND
3. TXD
4. RXD



5.2 Connection procedure

Step	Action
1	Connect the analog camera / VRX video output to the board's video input (RCA or pin header). Only one of the 2-pin or 3-pin video connectors is required.
2	Connect the DC power lines. Verify polarity before powering on.
3	Connect the RJ45 port to the router, switch or PC with an Ethernet cable.
4	If using a TF card, insert a formatted microSD card (up to 256 GB) before power-on.
5	If using MIC / LINE_OUT or TTL serial, connect these signals according to the board pin-definition drawing.

Step	Action
6	Power on. Check the Ethernet link LED and confirm the board is discoverable with the IP Search tool.

Important: When changing the video input source or format (for example, replacing an AHD camera with a CVBS camera), power off the board, change the source, then power on again. The board detects the video format only at startup.

5.3 Installation notes for weak-signal links

- Place the VRX / receiver away from high-current wiring and switching power supplies.
- Use short, good-quality 75 Ω coax; avoid unnecessary adapters and ground loops.
- Keep the encoder supply stable; under-voltage can look like a video synchronization fault.
- When the RF link degrades, expect visible noise or artifacts. The stream should remain online.
- When the analog input is completely disconnected, the stream shows a black screen.

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6. Network Configuration

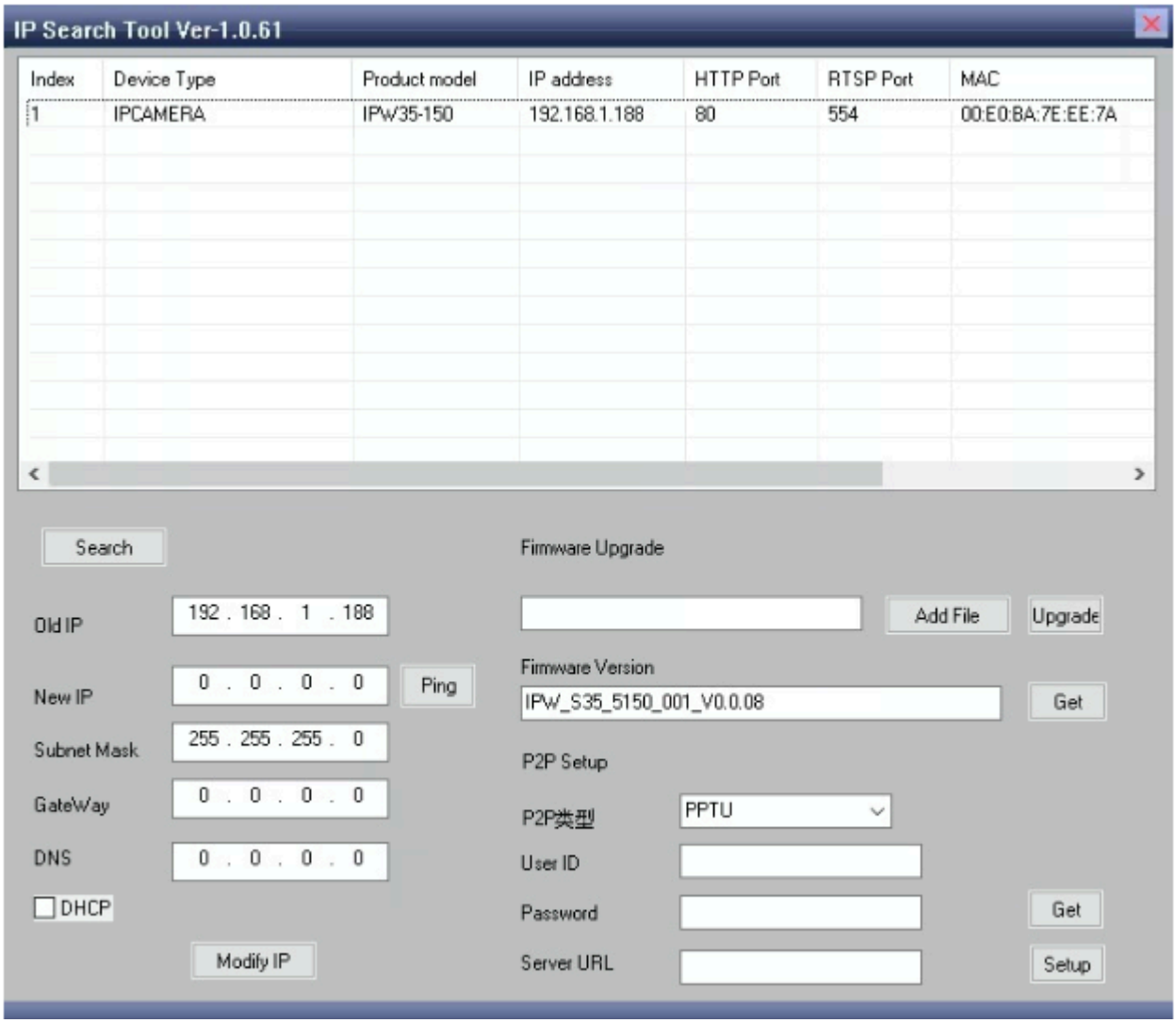
The board ships with a fixed default address. Use the steps below for first access and address changes.

6.1 Default network settings

Item	Value
IP address	192.168.1.188
Subnet mask	255.255.255.0
HTTP port	80
RTSP port	554
Web login	admin / admin
RTSP live URL	`rtsp://192.168.1.188:554/0`

6.2 First-time access

1. Set the PC IP to the same subnet, for example **192.168.1.100**.
2. Open a browser and go to **http://192.168.1.188**.
3. Log in with user **admin**, password **admin**.
4. Change the password after the first login for security.
5. Configure network mode: static IP or DHCP according to the installation.



6.3 Find or change the IP with the IP Search tool

Tool: `2090-ipcsearch-en-v1.0.61.zip` (also v1.0.71 available).

1. Download and install the Windows IP Search tool.
2. Connect the PC and encoder to the same network segment.
3. Click **Search Device** to scan for encoder boards.
4. Select the board to modify and confirm the **Old IP**.
5. Enter the **New IP** and click **Modify IP**.

6. Reconnect using the new address.

Downloads:

- IP Search V1.0.61

  (https://download.ivcan.com/software/2090-ipcsearch-en-v1.0.61.zip)

- IP Search V1.0.71

  (https://download.ivcan.com/software/2090-ipcsearch-en.v1.0.71.zip)

6.4 Connectivity check

If the web page does not open:

1. Verify that PC and board are in the same subnet (192.168.1.x by default).
2. Check the Ethernet cable and link LED.
3. Ping `192.168.1.188`.
4. Temporarily disable firewall or network restrictions that may block HTTP / RTSP.
5. If the IP was changed earlier, re-run the IP Search tool.

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7. Video Streaming Setup

Use the stream URLs and player settings below to view live video on a PC, NVR or mobile device.

7.1 RTSP

Stream	URL format	Example (default IP)
Main stream	`rtsp://<IP>:554/0`	`rtsp://192.168.1.188:554/0`
Sub-stream	`rtsp://<IP>:554/1`	`rtsp://192.168.1.188:554/1`

Replace `<IP>` with the actual board address. The sub-stream URL depends on firmware; if `/1` is unavailable, use the stream list in the web interface.

7.2 Play in VLC

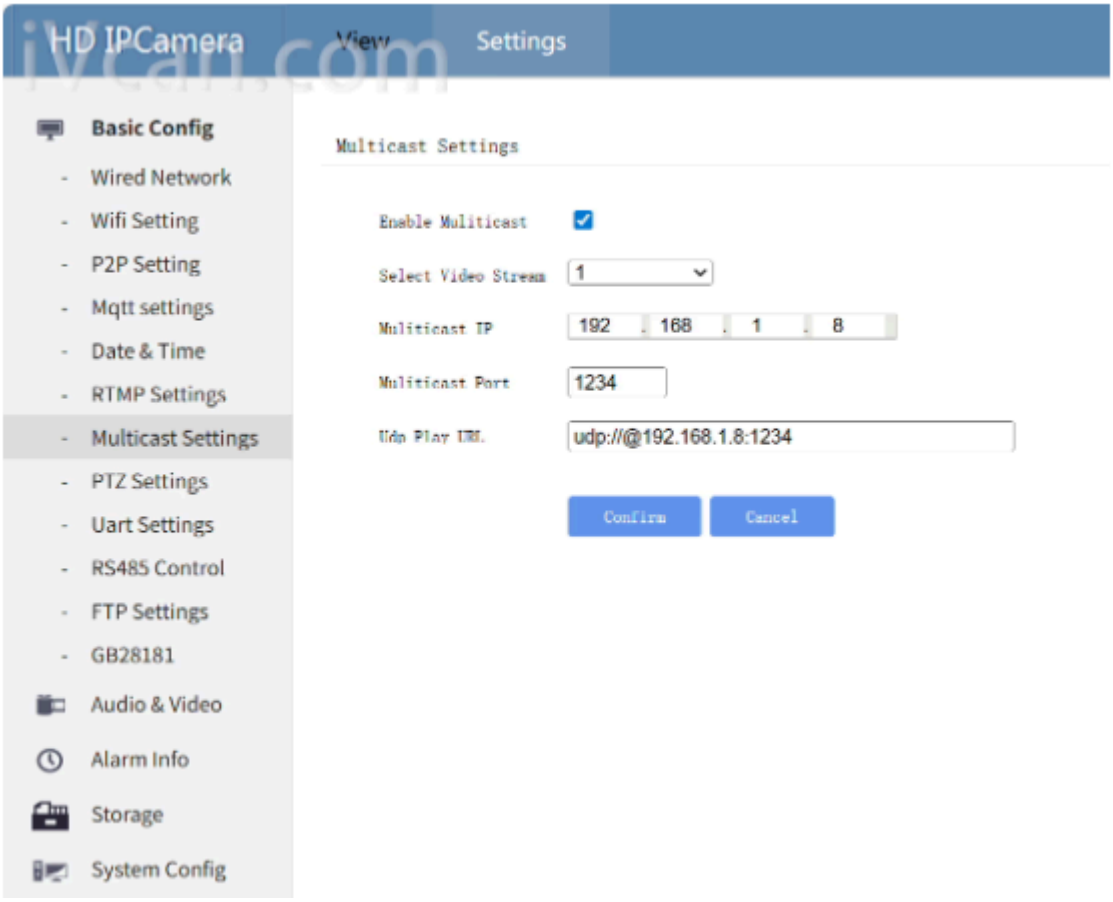
1. Open VLC media player.
2. Select **Media → Open Network Stream**.
3. Enter `rtsp://192.168.1.188:554/0`.
4. Click **Play**.

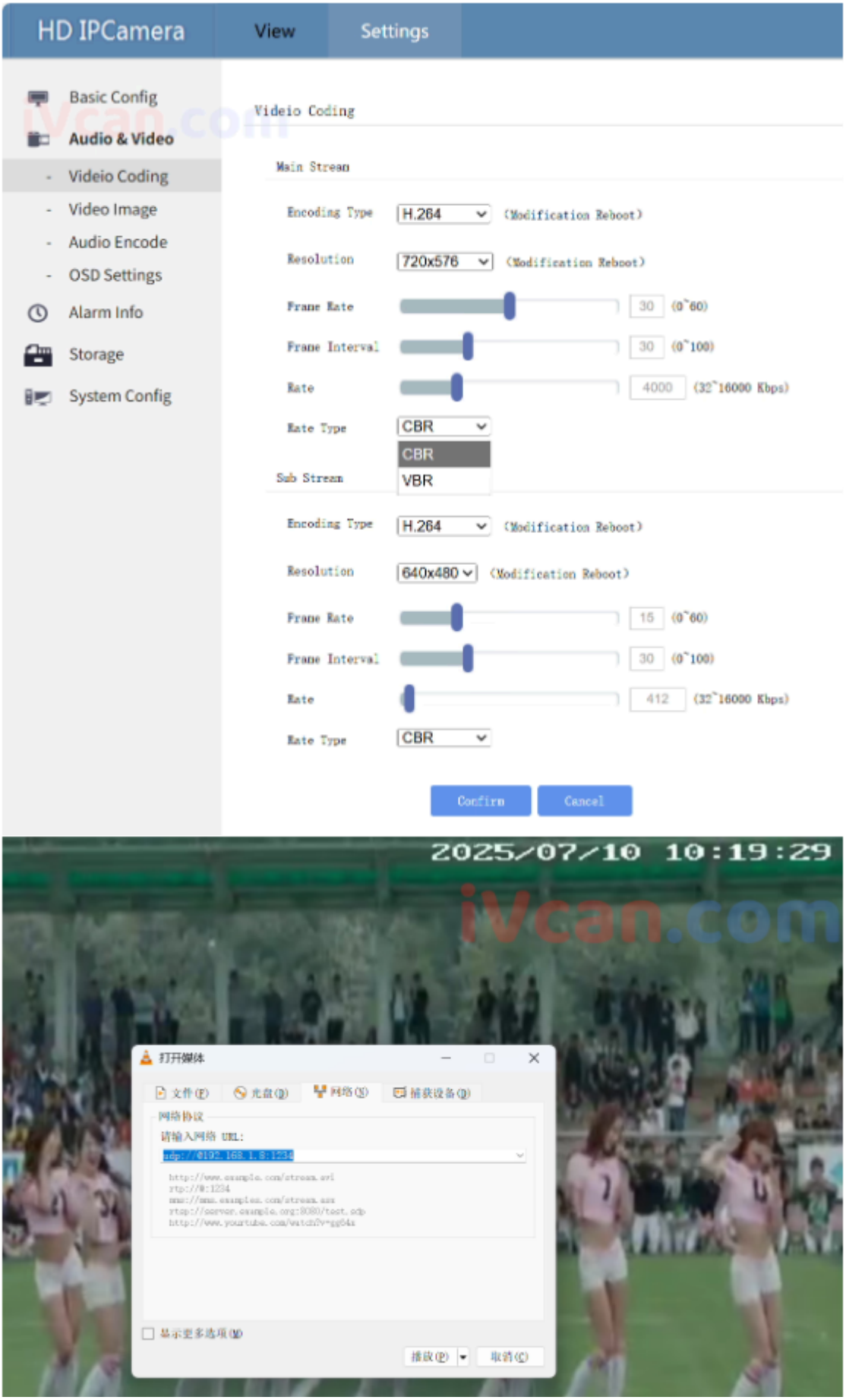
7.3 Low-latency player

Priority 1 - ONVIF Device Manager:
https://download.ivcan.com/software/2090-onvif-device-manager-v2.2.250.zip

- Priority 2 - IP Camera Viewer (4 channels):
  https://download.ivcan.com/software/2262-ipc-network-monitoring-client-4-channel-ip-camera-viewer.zip
- Also available - PC player R380_V1.25.0604.exe. Download:
  https://drive.google.com/file/d/1of2KGOrESTaa6pIXoOlldhAfRSyydDEp/view.

Alternative: EasyPlayer. VLC needs special settings to avoid excessive latency.




HD IPCamera
View
Settings
Basic Config
Audio & Video
Videio Coding
Video Image
Audio Encode
OSD Settings
Alarm Info
Storage
System Config
Videio Coding
Main Stream
Encoding Type
H.264
(Modification Reboot)
Resolution
720x576
(Modification Reboot)
Frame Rate
30
(0~60)
Frame Interval
30
(0~100)
Rate
4000
(32~16000 Kbps)
Rate Type
CBR
CBR
VBR
Sub Stream
Encoding Type
H.264
(Modification Reboot)
Resolution
640x480
(Modification Reboot)
Frame Rate
15
(0~60)
Frame Interval
30
(0~100)
Rate
412
(32~16000 Kbps)
Rate Type
CBR
Confirm
Cancel
2025/07/10 10:19:29
iVcan.com
打开媒体
文件(F)
光盘(D)
网络(N)
捕获设备(D)
网络协议
请输入网络 URL:
http://@192.168.1.8:1234
显示更多选项(M)
播放(P)
取消(C)

7.4 RTMP, UDP multicast and other protocols

- **RTMP:** Configure the push URL in the web interface to stream to a platform or private server.
- **UDP multicast:** Set multicast address and port on the streaming page, then set the bitrate at the output. Make sure the network switches support multicast.
- **ONVIF / GB28181:** Enable in the network protocol settings for NVR / VMS integration (ONVIF optional on Low-Signal Stable Edition).
- **MQTT / WebRTC / P2P SDK:** Available for IoT and secondary-development integration.

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8. Web Interface Configuration

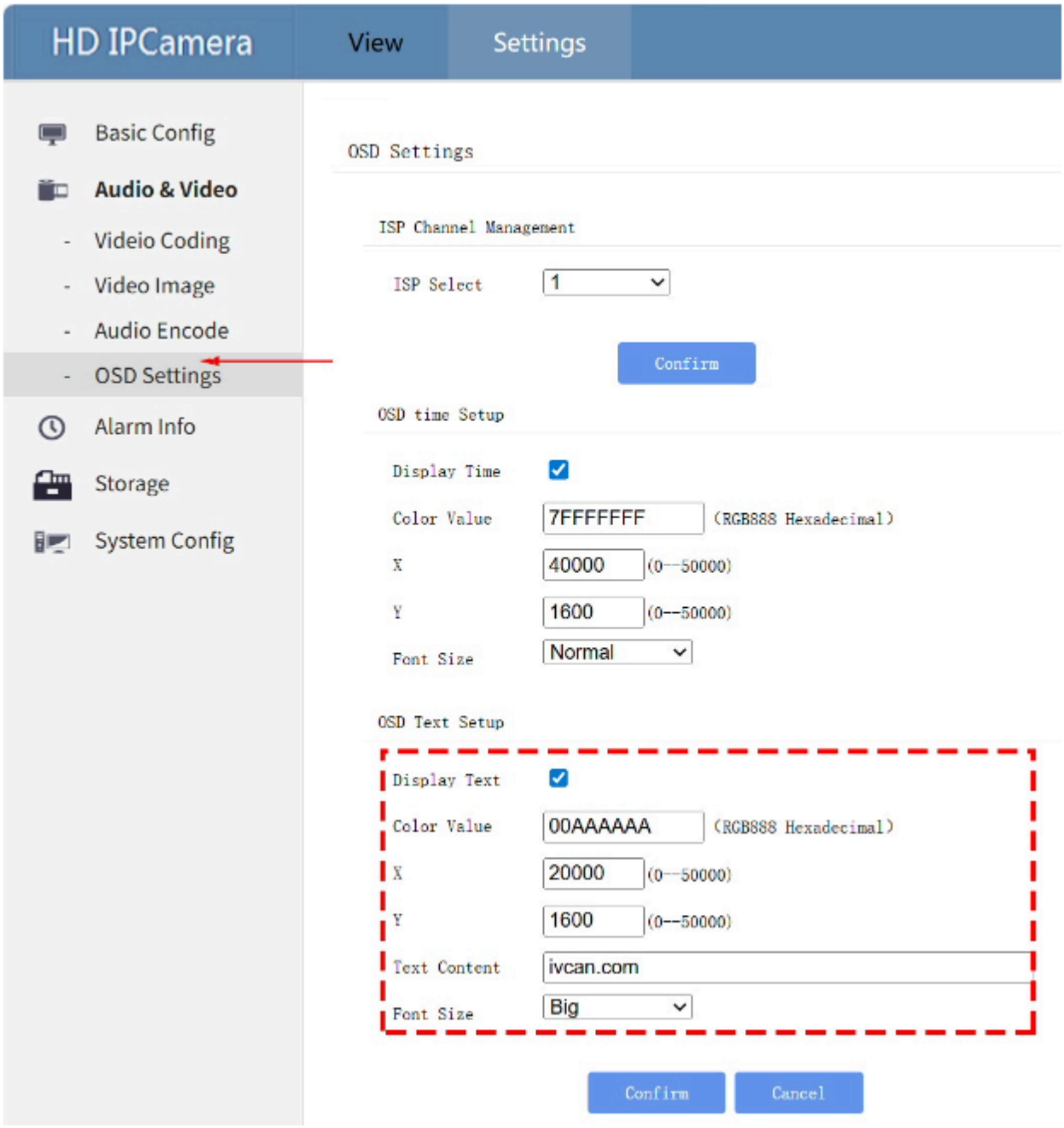
8.1 Configuration map

Menu	Main settings
Network	IP mode, IP address, gateway, DNS, ports, DHCP, NTP
Audio Video	Resolution, frame rate, bitrate, GOP, CBR/VBR, audio source, OSD
OSD Text Setup	Text content, colour, position, font size
Detection	Motion detection, human detection, sound alarm

Menu	Main settings
Storage	TF card status, recording mode, playback, snapshot
Streaming	RTSP / RTMP / UDP / multicast parameters
System	User management, firmware upgrade, backup / restore, reboot

8.2 Encoding settings

- Set resolution and frame rate first, then bitrate.
- For unstable wireless networks, use the sub-stream or a lower bitrate.
- H.265 saves bandwidth but requires a player that supports H.265 decoding.
- Keep GOP moderate for faster recovery after packet loss.



8.3 OSD text

1. Open `http://192.168.1.188` and log in.
2. Go to **Setting → Audio Video → OSD Text Setup**.
3. Enable **Display Text**.
4. Set text content, colour, position and font size.

5. Save / apply.

8.4 Detection, alarm and recording

- **Motion detection** and **human detection** can be enabled independently.
- **Sound alarm** can be linked to detection events.
- **TF card** supports continuous, timed and triggered capture, plus audio / video playback.
- Verify the TF card is recognized in the storage menu before relying on recording.

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9. Low-Signal Stable Edition — Operating Guide

This chapter explains the weak-signal behavior, expected stream states and practical limits of the upgraded edition.

9.1 What it solves

Conventional converters depend on a stable video synchronization signal. When an RF link fades, sync can disappear temporarily and the encoder may crash, freeze, or interrupt the stream. The Vcan2090s Low-Signal Stable Edition adds improved video sync detection and buffering so that:

- The IP stream continues while CVBS quality drops.

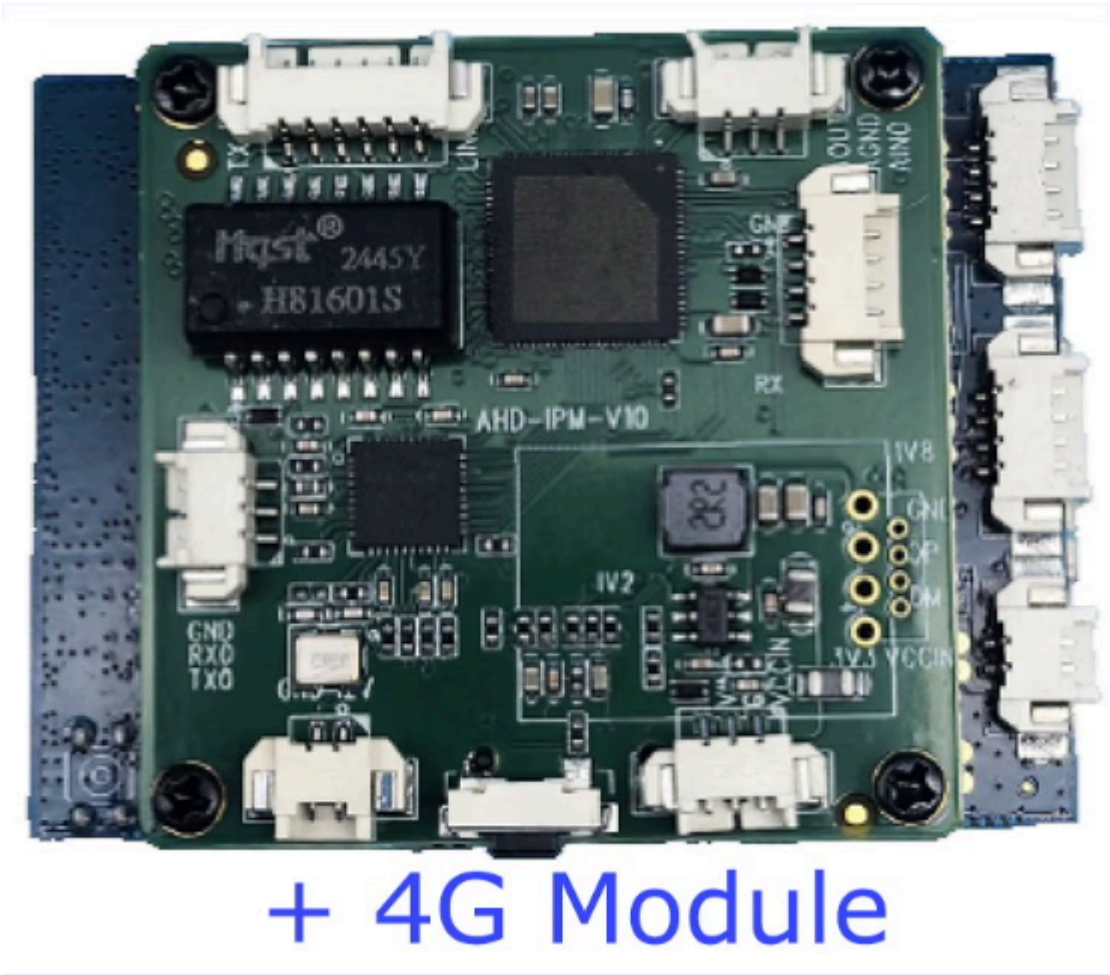
- No reboot is required when the signal returns.
- Video resumes automatically as RF conditions improve.
- The board is suitable for 24/7 operation in unstable wireless environments.

9.2 Expected behavior

Input condition	Encoder behavior
Good CVBS signal	Clean, stable video stream
Weak / noisy but present signal	Stream stays online; image may show noise or artifacts
Brief signal dropout	Stream remains alive; video recovers automatically
No signal connected at all	Stream displays a black screen
Input format changed while powered on	Power-cycle required for re-detection

9.3 Limitations

- The encoder does **not** improve RF signal quality; it improves stream continuity.
- It does not enhance the analog video itself.
- Performance under extreme noise should be verified with a sample in the actual system.
- The Low-Signal Stable Edition is CVBS-based; choose the standard version if AHD / TVI input is required.

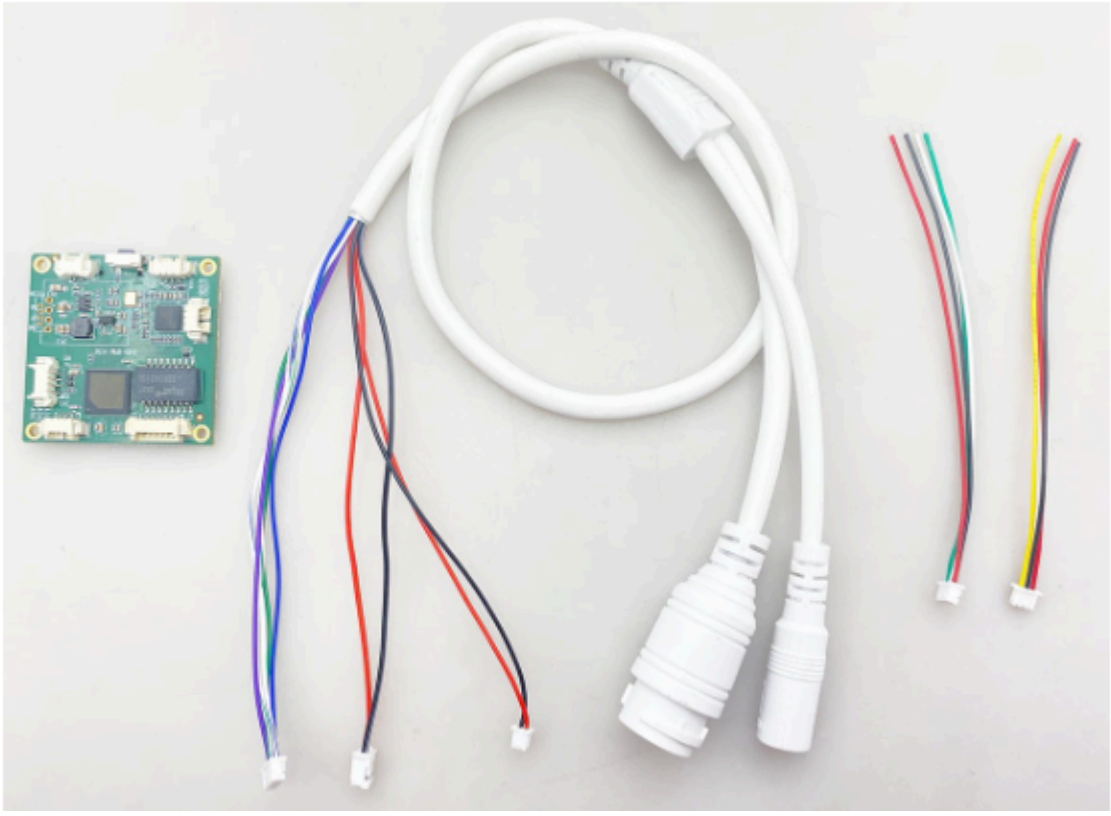


10. Customization and OEM / ODM

Category	Options
Video I/O	CVBS, S-Video, HDMI, HD-SDI input options; single / dual / multi-channel designs (standard product is single-channel); PAL / NTSC, 720×576 / 720×480 or higher; H.264 / H.265 / MJPEG; RCA L/R audio; optional PoE
Network & protocol	RTSP, RTMP, HTTP, ONVIF, UDP, TCP; static IP / DHCP; VLAN or multi-subnet; main / sub / third stream; custom bitrate and frame rate profiles
Hardware	Custom PCB size and shape; connector

Category	Options
	position and type (SMA / MCX / RJ45 / USB / HDMI); 5 V / 12 V supply versions; passive heat sink, fan or other thermal solution
Functions	Two-way intercom, TF recording, OSD, motion / human detection, sound alarm, private protocol, fixed or dynamic bitrate tuning, SDK integration, cloud platform
Packaging & environment	Industrial metal case, vibration-resistant vehicle housing, lightweight plastic shell, customer logo, custom packaging, extended temperature, IP65 / IP67 options

Digital I/O, alarm I/O and other board-level functions can be evaluated on request.



11. Integration Examples

11.1 UAV / FPV ground station

```
Analog FPV camera → analog VTX → VRX (CVBS out) → Vcan2090s → Ethernet / Wi-Fi → RTSP player or ground-station software
```

Use the Low-Signal Stable Edition. Set a moderate bitrate, enable the sub-stream for the control link, and mount the board close to the VRX output.

11.2 Analog CCTV upgrade

```
CVBS / AHD / TVI camera → coax → Vcan2090s → network switch → NVR / VMS
```

Use the standard version. Enable ONVIF or GB28181 on the encoder and add it as an IP camera in the NVR.

11.3 Multi-camera stacking

```
4 × Vcan2090s boards (stacked with pillars) → 4 × IP streams → NVR
```

Each board handles one CVBS input. Four boards can be stacked; each board has its own IP address and RTSP URL. A custom single-board 4-channel design is available as a paid development project.

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12. Troubleshooting

Symptom	Check / fix
Cannot open web page	PC and board must be in the same subnet; ping 192.168.1.188; check cable and firewall; re-run IP Search tool.
Forgot the IP address	Use IP Search V1.0.61 / V1.0.71 to find and modify the address.
RTSP stream will not play	Confirm the URL and IP; verify the player supports H.264 / H.265; check that the stream is enabled in the web UI.
No video after camera change	Power off, reconnect the new camera, power on again. The board detects input format only at startup.
Video freezes when signal is weak	Use the Low-Signal Stable Edition; check coax quality, supply voltage and RF link margin.
Black screen	No analog signal is present; check camera power and video cable.
High latency	Lower resolution / bitrate, use H.264, use a low-latency player, and avoid congested networks.
TF card not detected	Use a supported card up to 256 GB, format it, and reinsert before power-on.
Audio not heard	Check MIC / line-in selection, audio encoding setting and LINE_OUT wiring.
OSD text not visible	Enable Display Text under Setting → Audio Video → OSD Text Setup and save.

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13. FAQ

Q: What is a CVBS-to-Ethernet IP video stream converter board? A: A small hardware module that converts analog video such as CVBS, AHD or TVI into a digital IP stream over Ethernet, allowing analog cameras to join an IP network.

Q: Can the Vcan2090s output H.264 or H.265? A: Yes. H.264 is the default; H.265 is optional. Bitrate is adjustable.

Q: Which video formats are supported? A: The standard version supports CVBS, AHD and TVI with automatic detection. The Low-Signal Stable Edition is optimized for CVBS input.

Q: Does it support Full HD output? A: Yes. The standard version supports 1920×1080@30 output, along with 1280×720 and lower resolutions. The analog input itself is SD (720×576 / 720×480).

Q: Can two cameras be connected at the same time? A: No. The board processes one video input at a time. Use multiple boards for multiple cameras.

Q: Does the board support remote monitoring? A: Yes. Use RTSP, ONVIF, P2P or WebRTC on mobile phones and PCs.

Q: Which protocols are supported? A: RTSP, UDP, HTTP, TCP/IP, ONVIF,

MQTT, WebRTC, GB28181 and RTMP.

Q: Why does an ordinary converter stop when signal quality drops? A: It loses video synchronization. The Vcan2090s Low-Signal Stable Edition uses improved sync detection and buffering to keep the stream alive.

Q: Does the encoder improve video quality? A: No. It maintains streaming stability; it does not enhance the RF signal or the analog picture.

Q: What happens when no video signal is connected? A: The IP stream displays a black screen.

Q: Can it be used for Internet live streaming? A: Yes. Configure RTMP in the web interface.

Q: Is there a 4-channel CVBS version? A: The stocked product is single-channel. Four boards can be stacked for four channels; a custom 4-channel PCB can be developed at extra cost.

Q: Are 3D enclosure files available? A: No. A 2D board dimension drawing is available for enclosure design.

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14. Downloads, Support and Document Information

Resource	Link
Standard product page	https://ivcan.com/p/cvbs-av-video-to-ethernet-ip-video-stream-converter-board/ (https://ivcan.com/p/cvbs-av-video-to-ethernet-ip-video-stream-converter-board/)
Low-signal stable product page	https://ivcan.com/p/cvbs-to-ethernet-ip-encoder-stable-in-weak-signal-proof-low-signal-lock/ (https://ivcan.com/p/cvbs-to-ethernet-ip-encoder-stable-in-weak-signal-proof-low-signal-lock/)
IP Search tool V1.0.61	https://download.ivcan.com/software/2090-ipcsearch-en-v1.0.61.zip (https://download.ivcan.com/software/2090-ipcsearch-en-v1.0.61.zip)
IP Search tool V1.0.71	https://download.ivcan.com/software/2090-ipcsearch-en.v1.0.71.zip (https://download.ivcan.com/software/2090-ipcsearch-en.v1.0.71.zip)
Low-latency PC player R380	Google Drive (https://drive.google.com/file/d/1of2KGOrESTaa6pIXoOlldhAfRSyydDEp/view)
WhatsApp support	+852 5291 5254 (https://wa.me/85252915254)
Telegram support	t.me/ivcancom (https://t.me/ivcancom)
Website	https://ivcan.com (https://ivcan.com)

Revision history

Version	Date	Change
1.0	2026-11-28	First combined specification sheet and user manual for Vcan2090s, merging the standard and

Version	Date	Change
		low-signal-stable product information.

Note: This document consolidates publicly published product information and adds practical configuration guidance. Specifications may vary by firmware and board revision; confirm final parameters with your supplier before placing a production order. Images, pin-out drawings and firmware files referenced here are available from the product pages or on request.