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**POMIACAM AFN-42**

# POMIACAM BNC to USB 3.0 Video Capture Card User Manual

Model: AFN-42

## 1. Introduction

This manual provides instructions for the POMIACAM BNC to USB 3.0 Video Capture Card, Model AFN-42. This device is designed to convert analog video signals (AHD, TVI, CVI, CVBS) into digital USB 3.0 format for recording, live streaming, and viewing on computers or other compatible devices. It features a plug-and-play design, requiring no driver installation or external power supply.

## 2. Product Overview

The POMIACAM AFN-42 is a compact and versatile video capture device. It supports various analog camera signals and outputs them via USB 3.0. The device also includes a loop-out BNC port for simultaneous display on a monitor and a microphone input for independent audio capture.




**Figure 2.1:** Front and side view of the POMIACAM BNC to USB 3.0 Capture Card, showing USB output, mic input, 4-in-1 BNC input, and BNC looping out port, along with dimensions (77mm length, 51mm width, 21mm height).




**Figure 2.2:** Angled view of the POMIACAM BNC to USB 3.0 Capture Card, highlighting its compact design and port labels.

## 3. Features

- **4-in-1 BNC Input:** Supports AHD, TVI, CVI, and CVBS analog video signals.
- **USB 3.0 Output:** High-speed data transfer for smooth video capture.
- **Plug and Play:** No driver installation required for most operating systems.
- **No External Power:** Powered directly via the USB connection.
- **Audio and Video Capture:** Captures both video and audio signals simultaneously.
- **Independent Audio Input:** Includes a 3.5mm microphone jack for separate audio input.
- **BNC Loop-out:** Allows for simultaneous display on a local monitor.
- **Wide Resolution Support:** Automatically recognizes and supports resolutions up to 1920x1080P at 60fps.
- **Broad Compatibility:** Works with Windows, Linux, and Android operating systems.
- **UVC/UAC Standard:** Complies with USB Video Class and USB Audio Class standards.
- **Recommended Software:** Compatible with popular acquisition software like OBS Studio and Potplayer.

## 4. Package Contents

Please check the package for the following items:

- POMIACAM BNC to USB 3.0 Video Capture Card (Model AFN-42)

- USB 3.0 Cable
- *Note: Adapters for RCA to BNC or other signal types may be required depending on your source device and are not included.*

## 5. Setup Instructions

Follow these steps to set up your POMIACAM BNC to USB 3.0 Video Capture Card:

1. **Connect Video Source:** Connect your analog video source (e.g., AHD/TVI/CVI/CVBS security camera, DVR, VCR) to the **BNC Input** port on the capture card using a BNC cable.
2. **Connect Optional Loop-out Display:** If you wish to view the video on a local monitor simultaneously, connect a BNC cable from the **BNC Loop-out** port on the capture card to your monitor's BNC input.
3. **Connect Microphone (Optional):** If you need to capture independent audio, connect a 3.5mm microphone to the **Mic In** port.
4. **Connect to Computer:** Connect the USB 3.0 cable from the capture card's**USB Output** port to an available USB 3.0 port on your computer (desktop, laptop, or compatible Android device). The device will be powered via this connection.
5. **Software Recognition:** Your operating system should automatically recognize the device as a USB Video Class (UVC) and USB Audio Class (UAC) device. No specific drivers are typically needed.
6. **Launch Capture Software:** Open your preferred video capture software (e.g., OBS Studio, Potplayer) and select the POMIACAM capture card as your video and audio input device.

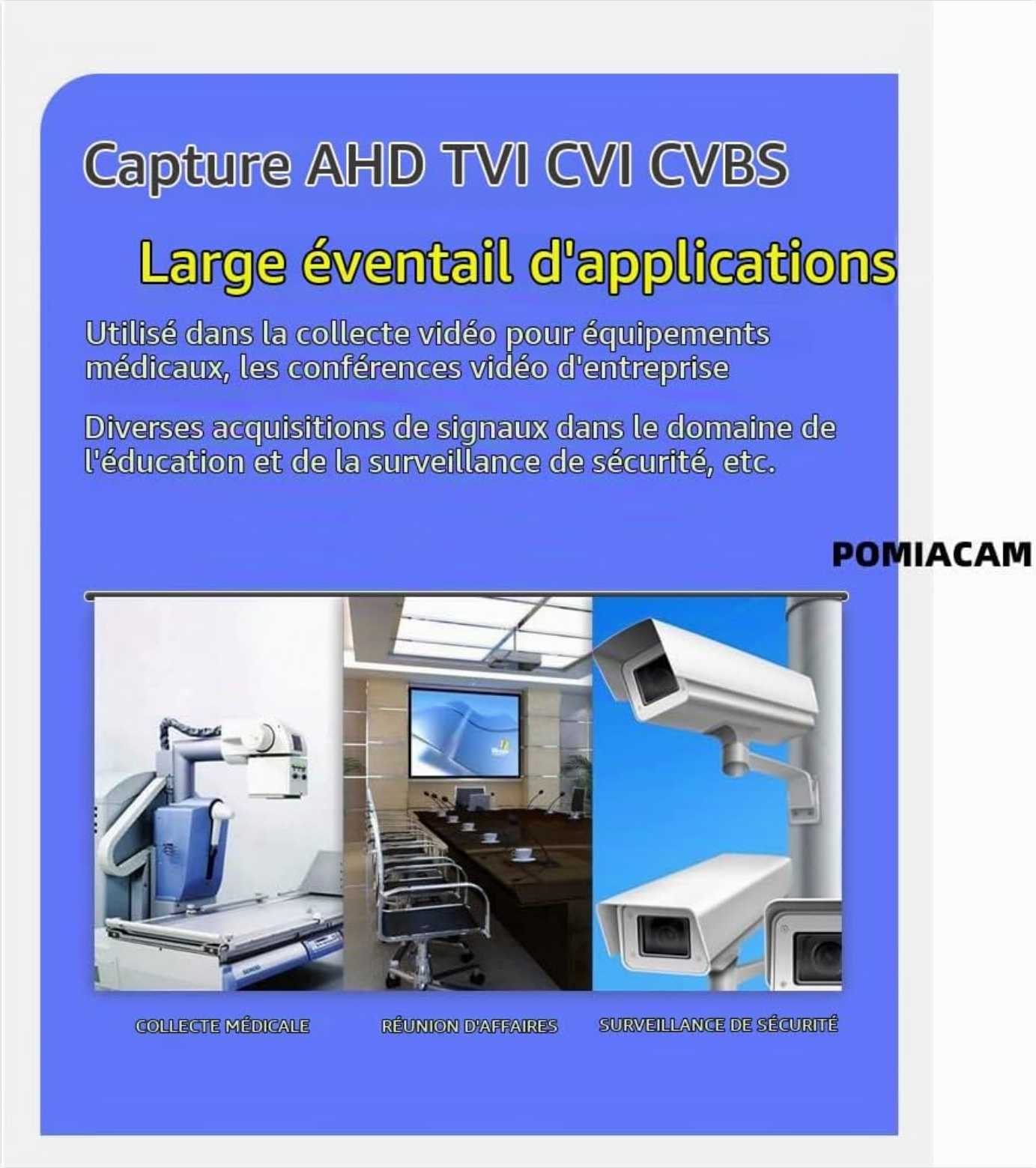



**Figure 5.1:** Diagram illustrating the connection of the capture card. An analog BNC source connects to the BNC Input, a BNC loop-out connects to a display, and the USB Output connects to a computer for video capture.

## 6. Operating Instructions

Once the device is set up and recognized by your software, you can begin capturing or streaming:

1. **Select Input:** In your capture software, ensure the POMIACAM capture card is selected as the video and audio input source.
2. **Configure Resolution and Frame Rate:** The device automatically detects the input resolution. You can configure the output resolution and frame rate within your software. The card supports resolutions up to 1080P and frame rates from 5 to 60fps.

3. **Adjust Audio Settings:** If using the microphone input, ensure it is selected as the audio source in your software. Adjust volume levels as needed.
4. **Start Recording/Streaming:** Initiate recording or live streaming through your chosen software.




**Figure 6.1:** The capture card connected via its USB 3.0 cable, indicating its capability for 1080P lossless USB output.

## 7. Maintenance

To ensure the longevity and optimal performance of your capture card:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures or humidity.
- Do not attempt to disassemble or repair the device yourself. Contact support if issues arise.
- Store the device in a cool, dry place when not in use.

## 8. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No video signal in software. | • Incorrect input selected in software.<br>• Loose or faulty BNC cable connection.<br>• Video source not active or outputting signal.<br>• USB connection issue. | • Ensure the capture card is selected as the video input in your software.<br>• Check all BNC cable connections. Try a different cable if available.<br>• Verify your video source is powered on and outputting a signal.<br>• Reconnect the USB cable to a different USB 3.0 port on your computer. |
| No audio captured. | • Incorrect audio input selected in software.<br>• Microphone not connected or faulty.<br>• Audio levels too low. | • Select the capture card's audio input in your software.<br>• Ensure the microphone is properly connected to the "Mic In" port.<br>• Adjust audio input levels in your software and on the microphone itself. |
| Poor video quality or flickering. | • Low quality BNC cables.<br>• Signal interference.<br>• Computer resources are insufficient. | • Use high-quality BNC cables.<br>• Ensure cables are not near strong electromagnetic sources.<br>• Close other demanding applications on your computer. Ensure your computer meets the minimum system requirements for video capture. |
| Device not recognized. | • Faulty USB port or cable.<br>• Operating system issue. | • Try a different USB 3.0 port and/or a different USB 3.0 cable.<br>• Restart your computer. Check your operating system's device manager to see if the device appears. |

## 9. Specifications




**Figure 9.1:** Visual representation of the product's key specifications.

| Feature | Detail |
|---|---|
| **Model Number** | AFN-42 |
| **Brand** | POMIACAM |
| **Input Interface** | BNC (4-in-1: AHD, TVI, CVI, CVBS) |
| **Output Interface** | USB 3.0 Type B |
| **Loop-out Interface** | BNC |
| **Audio Input** | 3.5mm Microphone Jack |
| **Video Output Resolution** | Max 1920x1080P (1080P), 1600x1200P, 1360x768P, 1280x1024P, 1280x960, 1280x720P, 1024x768P, 800x600P, 720x480P, 720x576P, 640x480P |
| **Frame Rate** | 5-60 frames per second (adjustable) |
| **Driver** | No installation driver required (Plug and Play) |
| **Audio/Video Capture Standard** | UVC/UAC Standard |
| **Operating System Support** | Windows, Linux, Android |

| Feature | Detail |
|---|---|
| **Recommended Software** | OBS Studio, Potplayer |
| **Power Consumption** | < 3W |
| **Operating Temperature** | -20°C to 65°C (-4°F to 149°F) |
| **Working Humidity** | 5% - 90% |
| **Product Dimensions** | 87mm (L) x 51mm (W) x 21mm (H) (excluding protruding seat 10mm) |
| **Product Weight** | 100g |

## 10. Warranty and Support

POMIACAM provides the following warranty and support for this product:

- **30-Day Full Refund Guarantee:** If you are not satisfied with the product, you may be eligible for a full refund within 30 days of purchase.
- **365-Day Warranty:** The product is covered by a 365-day warranty against manufacturing defects.
- **Customer Support:** For any issues or inquiries, please contact POMIACAM customer service. We aim to respond within 24 hours.

For support, please refer to the contact information provided with your purchase or on the official POMIACAM website.

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