POMIACAM VGA

POMIACAM VGA to USB 2.0 Video Capture Card User Manual

Model: VGA

INTRODUCTION

This manual provides detailed instructions for the POMIACAM VGA to USB 2.0 Video Capture Card. This device is designed to convert VGA signals from various sources into a USB 2.0 output for capture and recording on a computer. It supports UVC/UAC specifications and is compatible with Windows, Linux, and Android operating systems.
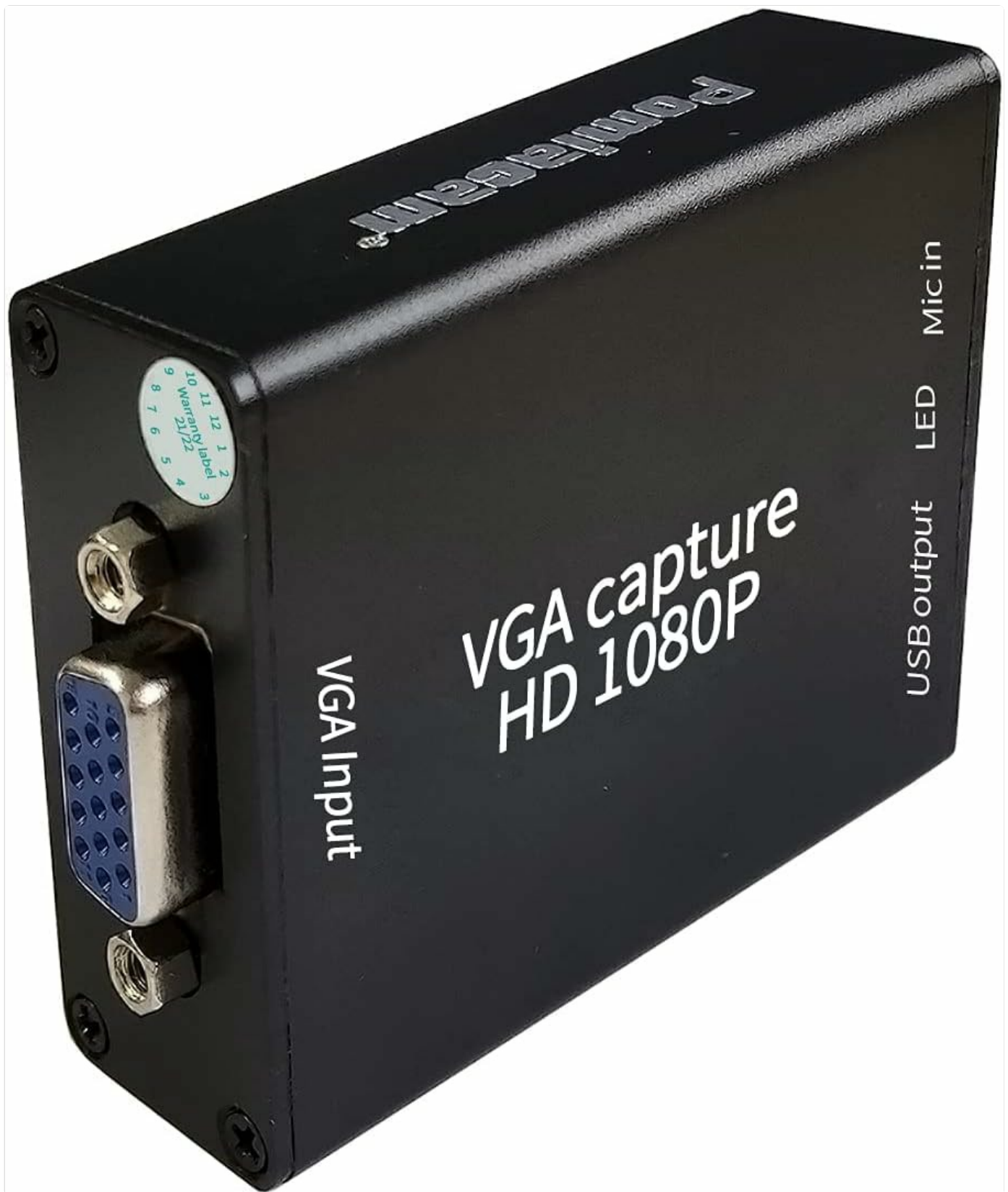
Figure 0: POMIACAM VGA to USB 2.0 Video Capture Card. An overall view of the capture card, highlighting its compact form factor and primary connection ports.

WHAT'S INCLUDED

The package includes the following items:

- VGA Capture Card

Figure 1: Package Contents. This image displays the VGA Capture Card along with its included accessories: a VGA cable and a USB cable.

FEATURES

- **VGA to USB Conversion:** Converts VGA signal input to USB 2.0 output.
- **Audio and Video Capture:** Functions as an audio and video capture device.
- **UVC/UAC Compliant:** Adheres to USB Video Class and USB Audio Class specifications.
- **Wide Compatibility:** Supports Windows, Linux, and Android systems.
- **Driver-Free:** Plug-and-play functionality without the need for driver installation.
- **Independent Audio Input:** Allows for separate audio input via a microphone jack.
- **High-Definition Capture:** Captures 1080P at 30 frames/sec and 720P at 60 frames/sec.
- **No External Power Required:** Operates without an additional power supply.
- **Compact Design:** Mini size for portability and convenience.

SETUP INSTRUCTIONS

Follow these steps to set up your POMIACAM VGA to USB 2.0 Video Capture Card:

1. **Connect VGA Signal Source:** Connect the VGA signal source (e.g., computer, ultrasound machine, industrial camera) to

the VGA input interface on the capture card.

2. **Connect to Computer:** Connect the USB output of the capture card to a USB port on your computer using the provided USB cable. The device is drive-free.

3. **Audio Input (Optional):** For audio input, connect an audio signal source (e.g., microphone) to the "Mic in" port on the capture card.

Figure 2: VGA Signal Input Sources. This diagram shows common devices that can connect to the capture card's VGA input, including a laptop, an ultrasound machine, and a VGA industrial camera.

Figure 3: Connection Diagram. This illustration details the setup process, showing a VGA signal source connected to the capture card, an optional microphone connected for audio input, and the capture card's USB output connected to a laptop for data transfer.

Figure 4: USB Output Connection. A detailed view of the capture card's USB output port connected to a laptop, emphasizing its USB 2.0 interface and driver-free operation.

OPERATING INSTRUCTIONS

Once the capture card is connected, follow these steps to begin capturing video:

1. **Open Acquisition Software:** On your computer, open your preferred video acquisition software (e.g., OBS, Potplayer, AMCAP, VLC).

2. **Select Device:** Within the software, select the device named "AFN_Cap video" and activate it.

3. **Verify Signal:** A red LED light on the capture card will flash, indicating successful signal acquisition.

4. **Start Recording/Streaming:** You can now use the software to record or stream the VGA input.

The capture card supports real-time capture of 1080P at 30 frames/second and 720P at 60 frames/second. The lowest supported resolution is 640x480p.

Figure 5: High-Definition Capture Example. This image illustrates the capture card's ability to capture high-definition video, showing a projector connected to a laptop, capable of real-time 1080P 30fps or 720P 60fps capture.

APPLICATIONS

The POMIACAM VGA to USB 2.0 Video Capture Card is suitable for a variety of applications, including:

- Equipment video collection
- Corporate video conferencing
- Educational presentations (PTT)
- Church services and events
- Using a laptop/PC as a monitor for devices or game consoles
- Connecting a projector to a computer

Figure 6: Diverse Applications. A visual collage showcasing the versatility of the VGA Capture Card across different environments, such as medical facilities, home entertainment setups, and professional video conferencing or streaming.

SPECIFICATIONS

Feature	Detail
Product Dimensions	2.56 x 2.17 x 0.98 inches
Item Weight	2.12 ounces
Hardware Interface	USB 2.0
Video Capture Resolution	1080p (30fps), 720p (60fps)
Operating System Compatibility	Android, Linux, Windows
Minimum Resolution Supported	640x480p

Figure 7: Product Dimensions. This image provides a clear visual of the capture card's compact size, with precise measurements for length, width, and height.

Troubleshooting

- **No Signal/Black Screen:**

    - Ensure all cables (VGA and USB) are securely connected.
    - Verify that the VGA source device is powered on and outputting a signal.
    - Check your acquisition software settings to ensure the correct device ("AFN_Cap video") is selected and active.
    - Confirm the red LED on the capture card is flashing, indicating signal acquisition.

- **No Audio:**

    - Ensure the audio source is properly connected to the "Mic in" port.
    - Check audio settings within your acquisition software and computer's sound settings.
    - Verify the audio source is active and producing sound.

- **Poor Video Quality/Lag:**

- Ensure your computer meets the minimum system requirements for video capture.
- Close other demanding applications running in the background.
- Try a different USB 2.0 port on your computer.
- Reduce the capture resolution or frame rate in your software settings if your system struggles with higher settings.

- **Device Not Recognized:**

  - Try connecting the capture card to a different USB port.
  - Restart your computer.
  - Although driver-free, ensure your operating system is up-to-date.

WARRANTY AND SUPPORT

The POMIACAM VGA to USB 2.0 Video Capture Card comes with a free one-year warranty. For any questions or support regarding the VGA capture card, please contact customer service. You can leave a message, and a response will be provided within 24 hours.

PRODUCT VIDEO DEMONSTRATION

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Video 1: VGA to USB Adapter Converter Overview. This video provides a brief overview of the POMIACAM VGA to USB adapter converter, demonstrating its physical connections and highlighting its mini size and plug-and-play features. It shows the VGA input and USB output connections.