pibox India VC9811T

PiBOX India Braided Tough Video Capture Card (Model VC9811T) User Manual

Model: PiBOX India VC9811T

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your PiBOX India Braided Tough Video Capture Card. This device allows you to capture HDMI video and audio signals for recording, live streaming, and broadcasting on various platforms.

The capture card supports high-definition input up to 3840x2160@60Hz and outputs a maximum resolution of 1920x1080@30Hz. It is compatible with Windows, Mac, and Android operating systems.

Image 1.1: PiBOX India Braided Tough Video Capture Card, including the main unit with braided USB cable, a USB-C adapter, and a compact carrying case.

2. Package Contents

Please verify that all items are present in your package:

- PiBOX India Video Capture Card (with integrated USB 3.0 cable)
- USB-A to USB-C Adapter (for compatible devices)
- User Manual (this document)

Note: The product may also include a small carrying case for convenience.

3. Specifications

Feature	Detail
Brand	PiBOX India
Model Number	VC9811T
Hardware Interface	USB 3.0
Input Resolution	Up to 3840x2160@60Hz (4K)
Output Resolution	Max 1920x1080@30Hz (1080P)
Operating Systems	Windows, Mac, Android
Dimensions (LxWxH)	Approximately 3.94 x 3.94 x 3.94 inches
Item Weight	Approximately 1.73 ounces
Material	Aluminium Alloy (for heat dissipation)

4. Setup Guide

Follow these steps to connect your PiBOX India Video Capture Card:

4.1 Connection Diagram

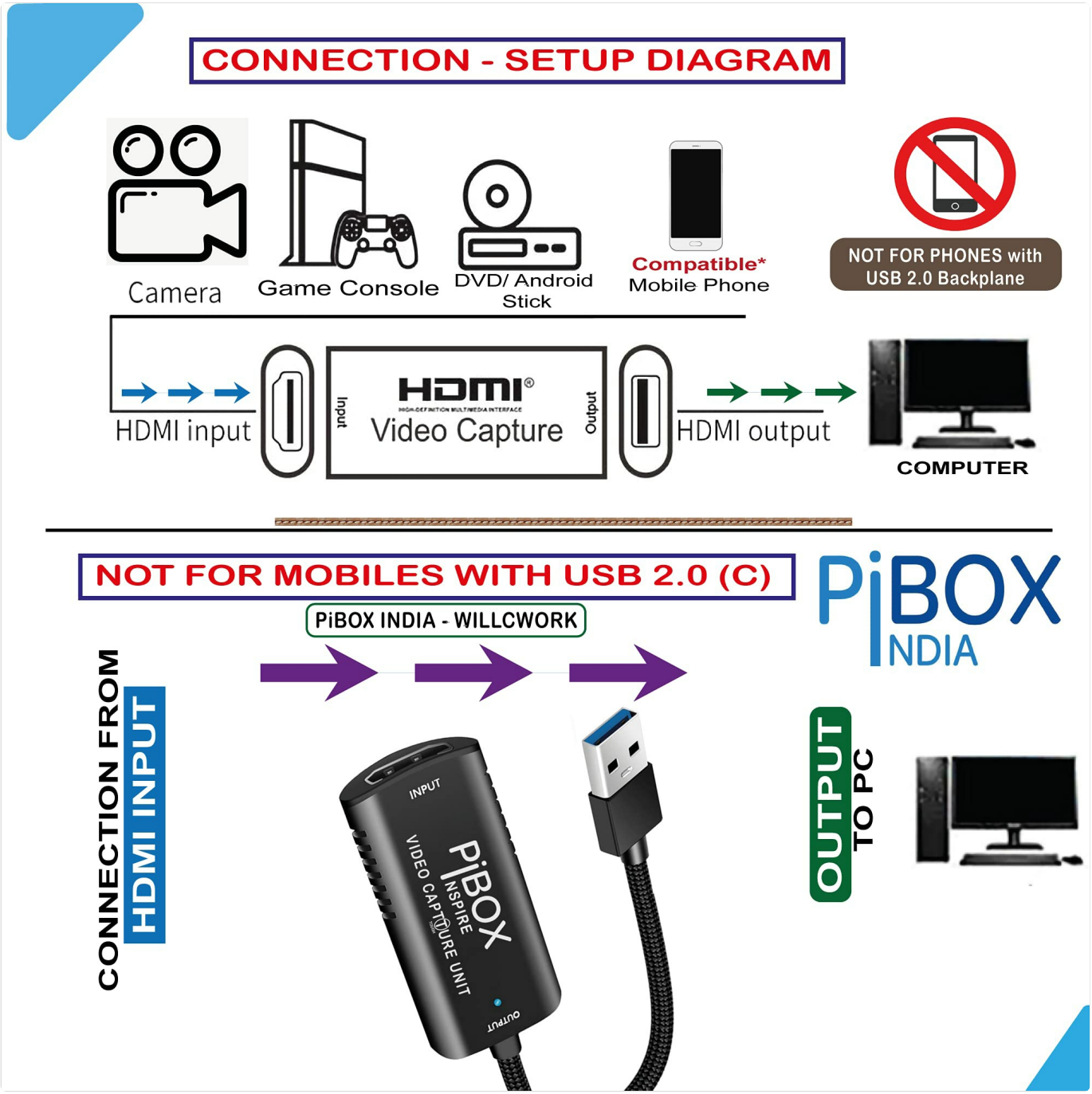

Image 4.1: Diagram illustrating how to connect the video capture card between an HDMI source and a computer.

The diagram shows the flow: HDMI Input Source (Camera, Game Console, DVD/Android Stick, Compatible Mobile Phone) → HDMI Input on Capture Card → USB Output from Capture Card → Computer (PC/Laptop).

Important Note:

- This device is **NOT** compatible with phones using a USB 2.0 backplane.
- For mobile devices, ensure they support USB 3.0 for optimal performance.

4.2 Step-by-Step Connection

1. **Connect HDMI Source:** Plug an HDMI cable from your source device (e.g., game console, camera, DVD player) into the **HDMI Input** port of the PiBOX India Video Capture Card.
2. **Connect to Computer:** Plug the integrated USB 3.0 cable from the capture card into an available USB 3.0 port on your computer (desktop or laptop). If your computer only has USB-C ports, use the provided USB-A to USB-C adapter.
3. **Power On:** Ensure both your source device and computer are powered on. The capture card typically draws power directly from the USB port.
4. **Software Installation:** No specific drivers are usually required for the capture card itself, as it functions as a

standard UVC (USB Video Class) device. However, you will need compatible capture software on your computer. Popular options include OBS Studio, VLC Media Player, or Amcap.

Image 4.2: An example setup demonstrating a camera connected to the capture card, which is then connected to a laptop for video acquisition.

5. Operating Instructions

Once the hardware is connected, you will need to configure your capture software to recognize and utilize the PiBOX India Video Capture Card.

5.1 Recommended Software

The capture card is compatible with various software applications for video acquisition and streaming:

- **OBS Studio:** A free and open-source software for video recording and live streaming. Highly recommended for its

versatility.

- **VLC Media Player:** Can be used for basic video capture and playback.
- **Amcap:** A simple capture application for Windows.
- Other platforms: Skype, Twitch, YouTube, Facebook Live (via OBS or similar streaming software).

Image 5.1: The capture card supports various software applications for streaming and recording, such as OBS Studio, VLC, Amcap, and platforms like Skype, Twitch, YouTube, and Facebook Live.

5.2 Basic Setup with OBS Studio (Example)

This section provides a general guide for setting up the capture card with OBS Studio. Specific steps may vary slightly with software updates.

1. **Launch OBS Studio:** Open the OBS Studio application on your computer.
2. **Add Video Source:** In the "Sources" box at the bottom of the OBS window, click the + icon. Select **"Video Capture Device"** from the list.

Image 5.2: Selecting "Video Capture Device" in OBS Studio to add the capture card as a source.

3. **Create New/Select Device:** In the pop-up window, select "Create new" and give it a name (e.g., "PiBOX Capture Card"), then click "OK". From the "Device" dropdown menu, select your capture card (it may appear as "USB Video" or similar).
4. **Configure Video Settings:**
    - Set "Resolution/FPS Type" to **"Custom"**.
    - Set "Resolution" to **"1920x1080"**.
    - Set "FPS" to **"30"**.
    - Ensure "Video Format" is set to "Any" or a compatible format.

Image 5.3: Configuring video resolution and frame rate in OBS Studio settings for the capture device.

5. **Configure Audio Settings:**
    - Under "Audio Output Mode", select **"Output desktop audio (WaveOut)"** or **"Use custom audio device"**.
    - If using a custom audio device, select the capture card's audio input (e.g., "2- USB Digital Audio").

Image 5.4: Adjusting audio output settings in OBS Studio to ensure sound is captured correctly.

6. **Start Streaming/Recording:** Once configured, you can click **"Start Streaming"** or **"Start Recording"** in the "Controls" panel of OBS Studio.

Image 5.5: Initiating streaming or recording from the OBS Studio controls panel.

For detailed OBS Studio tutorials, please refer to the official OBS Studio documentation or community resources.

6. Maintenance

To ensure the longevity and optimal performance of your PiBOX India Video Capture Card, consider the following maintenance tips:

- **Heat Dissipation:** The capture card features an aluminium alloy casing with vents designed for efficient heat dissipation. Ensure these vents are not obstructed during operation to prevent overheating.

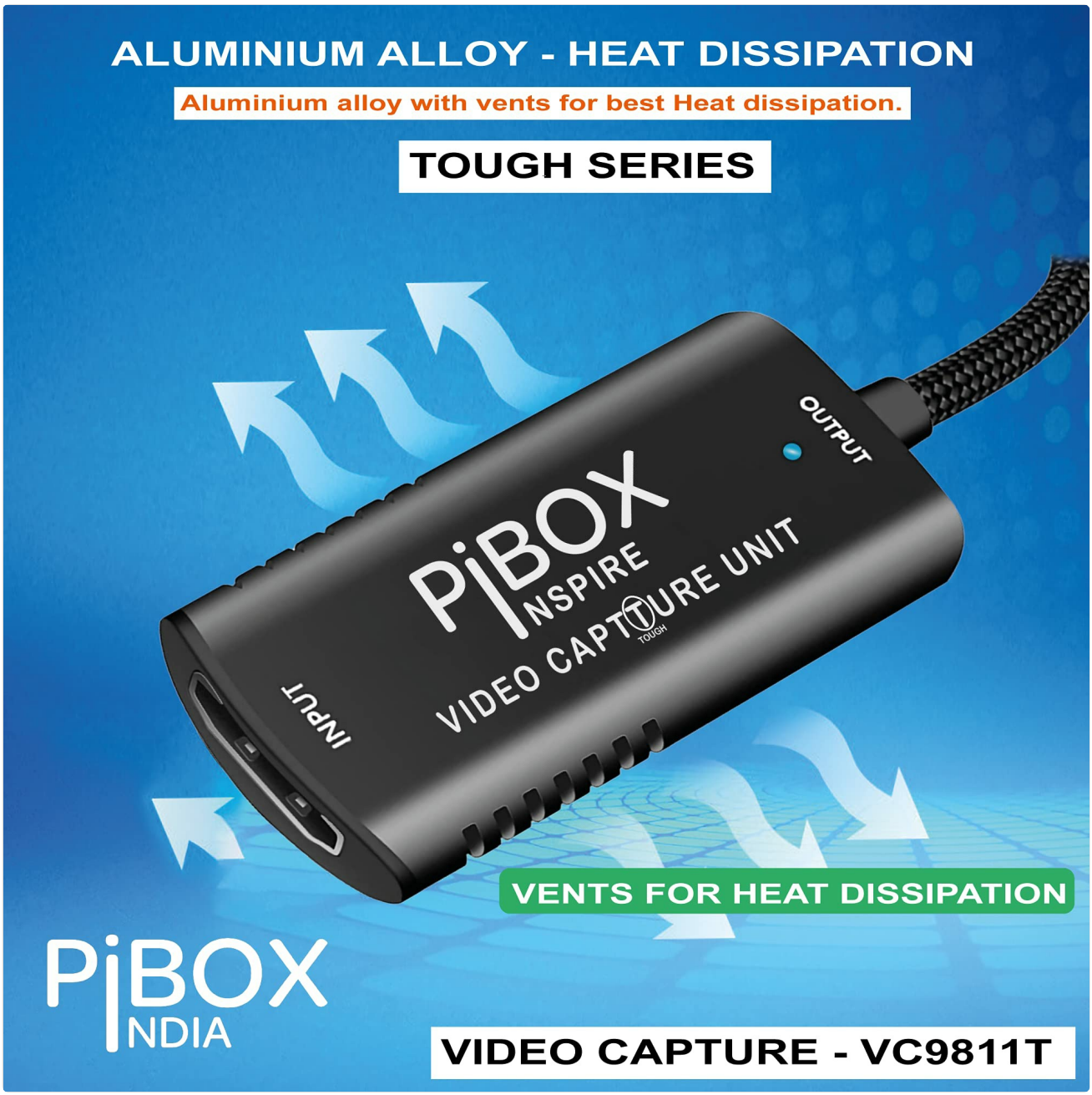

Image 6.1: The capture card's aluminium alloy design with vents facilitates effective heat dissipation, crucial for stable operation.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials.
- **Storage:** When not in use, store the capture card in a cool, dry place, away from direct sunlight and extreme temperatures. The included carrying case can protect it from dust and physical damage.
- **Cable Care:** The integrated braided cable is designed for durability. Avoid sharp bends or excessive pulling to prevent internal damage.

7. Troubleshooting

If you encounter issues with your video capture card, please refer to the following common problems and solutions:

7.1 No Video Signal / Black Screen

- **Check Connections:** Ensure all HDMI and USB cables are securely connected. Try re-plugging them.

- **Verify Source Device:** Make sure your HDMI source device (e.g., console, camera) is powered on and outputting a signal.
- **HDMI Cable Integrity:** Test with a different HDMI cable if possible.
- **Software Configuration:** Double-check that the capture card is correctly selected as the "Video Capture Device" in your software (e.g., OBS Studio) and that the resolution/FPS settings are appropriate (1920x1080@30Hz).
- **HDCP Issues:** Some source devices (e.g., certain game consoles, Blu-ray players) may output content protected by HDCP (High-bandwidth Digital Content Protection), which can prevent capture. Ensure HDCP is disabled on your source device if possible, or use a device that does not enforce HDCP for capture.

7.2 No Audio

- **Check Audio Settings:** In your capture software (e.g., OBS Studio), ensure the correct audio input device is selected (e.g., "2- USB Digital Audio").
- **System Audio:** Verify that your computer's audio output is working and not muted.
- **Source Audio:** Confirm that the HDMI source device is outputting audio.

7.3 Device Overheating

- **Ensure Ventilation:** Make sure the capture card's heat dissipation vents are not blocked.
- **Operating Environment:** Use the device in a well-ventilated area.
- **Reduce Load:** Prolonged high-resolution capture can generate heat. Ensure your computer meets the minimum system requirements for your capture software.

7.4 Low Frame Rate or Lag

- **USB 3.0 Port:** Ensure the capture card is connected to a USB 3.0 port on your computer. USB 2.0 ports may not provide sufficient bandwidth for 1080p@30Hz capture.
- **Computer Performance:** Your computer's CPU, RAM, and GPU significantly impact capture and streaming performance. Close unnecessary applications.
- **Software Settings:** Verify that your capture software settings (resolution, FPS, bitrate) are not set higher than the device's capabilities (max 1080p@30Hz output).

8. Warranty and Support

For warranty information and technical support, please refer to the official PiBOX India website or contact their customer service directly. Details are typically provided on the product packaging or the manufacturer's website.
PiBOX India is committed to providing quality products and support. If you encounter issues not covered in this manual, please reach out to their support team for assistance.