

## VANGREE VC-001

# VANGREE USB C Video Capture Card VC-001 Instruction Manual

Model: VC-001

## INTRODUCTION

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The VANGREE USB C Video Capture Card VC-001 is designed for capturing high-definition video and audio from various devices. It supports resolutions up to 1080p at 60 frames per second (2K@30Hz) and features a USB-C input, USB 3.0 connectivity, and 100W Power Delivery (PD) for simultaneous charging. This manual provides detailed instructions for setting up and operating your capture card.

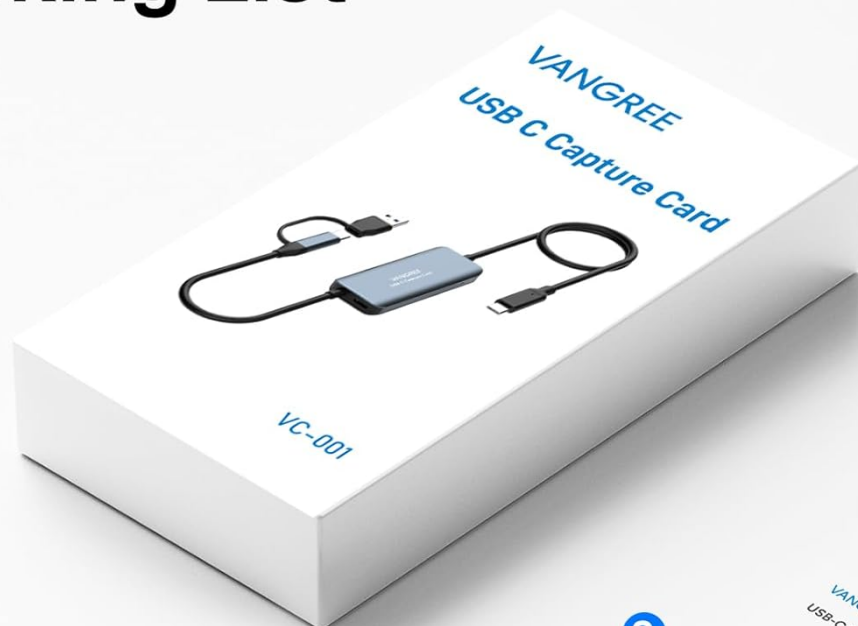
## PACKAGE CONTENTS

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Please verify that all items are present in your package:

- VANGREE USB C Capture Card (VC-001)
- USB-C to USB-C Cable
- USB-C to USB-A/C Cable
- User Guide

# Packing List



- 1 Video Capture Card
- 2 User Manual

Image: The VANGREE USB C Capture Card VC-001 and its included user manual, illustrating the package contents.

## PRODUCT FEATURES

- **1080P 60FPS USB-C Game Capture & Signal Input:** Captures resolutions up to 1080p at 60fps (2K@30Hz) for video sources with hardware accelerated up-scaling/down-scaling. Supports up to 1080p at 60fps USB-C input.
- **PD 100W Fast Charging:** Allows simultaneous play and charging for devices like Nintendo Switch or Steam Deck. *Note: When connecting the Switch, an external power supply (voltage above 15V) is required. This device does not support bidirectional charging.*
- **HD Capture, Smooth, Ultra-Low Latency:** Enables real-time monitoring of the input source on your editing workstation's display with minimal delay.
- **USB 3.0 Chip & Durable Cable:** Features an intelligent chip with a transmission rate of up to 5Gbps (10 times faster than USB 2.0). The device has an aluminum shell, nickel-plated connector, and comes with a 3.3FT silicone cable for durability and flexibility.
- **No Driver Installation:** Offers a plug-and-play experience without requiring driver installation.
- **Universal Compatibility:** Compatible with TikTok, Nintendo Switch, Meta Quest 2/3/Pro, Steam Deck, iPhone 15/16, iPad Pro, Samsung Galaxy S23 Ultra/S24 Ultra, and other USB-C laptops, tablets, and phones. *Note: iPad requires a USB-C port and iPadOS 17 or later for use.*

## SETUP GUIDE

### 1. Identify Ports

Familiarize yourself with the input, output, and power delivery (PD) ports on the VANGREE USB C Capture Card.

### Product Interface Diagram

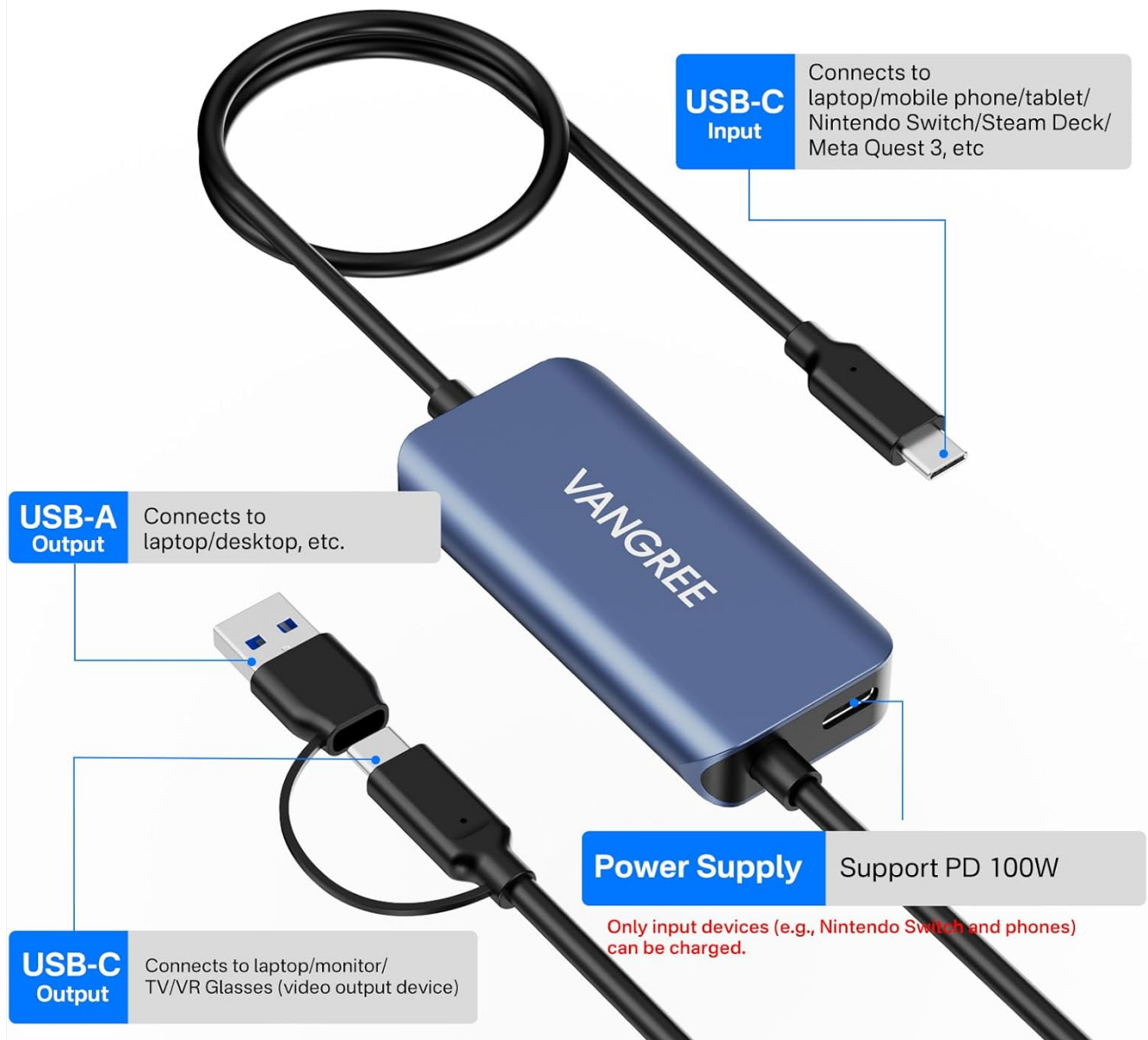


Image: A diagram illustrating the USB-C Input, USB-A Output, USB-C Output, and PD 100W Power Supply ports on the VANGREE USB C Capture Card.

### 2. Connecting for Gaming Console Capture (e.g., Nintendo Switch)

1. Connect your gaming console (e.g., Nintendo Switch) to the **USB-C Input** port on the capture card using the provided USB-C cable.
2. Connect the **USB-A Output** or **USB-C Output** from the capture card to your laptop or desktop computer.
3. For charging your console simultaneously, connect a 100W PD power adapter (15V or higher for Switch) to the **PD** port on the capture card.

# Unlock Immersive Big-Screen Nintendo Switch Gaming



Image: Setup showing a Nintendo Switch connected to the VANGREE USB C Capture Card, which is then connected to an iPad for display and capture. A power adapter is connected to the capture card for PD charging.



## PD 100W Fast Charging ⚡

Requires a 15-volt or higher PD power adapter when connected to Nintendo Switch

Image: A Nintendo Switch connected to the VANGREE USB C Capture Card, demonstrating the 100W Power Delivery feature for simultaneous charging while connected to a laptop.

### 3. Connecting for Mobile Device Capture (e.g., iPhone, iPad, Android)

1. Connect your mobile device (e.g., iPhone 15/16, iPad Pro, Samsung Galaxy S23/S24 Ultra) to the **USB-C Input** port on the capture card.
2. Connect the **USB-A Output** or **USB-C Output** from the capture card to your laptop or desktop computer.
3. If your mobile device supports PD charging, you can connect a PD charger to the **PD** port on the capture card.

# 2K@30Hz (1080p@60Hz) Full HD Quality

Max 2K@30Hz (1080p@60Hz) Input & 2K@30Hz (1080p@60Hz) Recording



Image: A smartphone connected to the VANGREE USB C Capture Card, which is then connected to a laptop, demonstrating a setup for capturing and streaming mobile content.

## 4. Connecting for VR Headset Capture (e.g., Meta Quest)

1. Connect your VR headset (e.g., Meta Quest 2/3/Pro) to the **USB-C Input** port on the capture card.
2. Connect the **USB-A Output** or **USB-C Output** from the capture card to your laptop or desktop computer.
3. Ensure your VR headset is powered adequately.

# Unlock Lag-Free VR Streaming for Meta Quest 2/3

Experience true immersion with zero-latency gameplay capture and instant setup for seamless Quest ecosystem integration



Image: A person wearing a Meta Quest VR headset, which is connected to the VANGREE USB C Capture Card for lag-free VR streaming.

## OPERATING INSTRUCTIONS

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### Software Compatibility

The VANGREE USB C Capture Card is plug-and-play and compatible with popular streaming and recording software. No additional drivers are required.

- OBS Studio (Windows, macOS)
- Potplayer (Windows)
- XSplit
- VLC
- USB Camera (Android)
- USB Camera Pro (iPadOS 17)
- MoniCon (iPadOS 17)
- CamX (iPadOS 17)

- CapView (iPadOS 17)
- Noir (iPadOS 17)

## Using with OBS Studio (Example)

Follow these steps to set up your VANGREE USB C Capture Card with OBS Studio:

1. **Add a New Source:** In OBS Studio, click the "+" button under the "Sources" panel.
2. **Select Video Capture Device:** Choose "Video Capture Device" from the list.
3. **Name the Source:** Give your new source a descriptive name and click "OK".
4. **Configure Video Source:**
  - From the "Device" drop-down list, select "VC-001 Video".
  - Set the "Resolution" to "1920x1080" and "Frame rate" to "60" (or "Simple FPS Values" to 60).
  - Set "Input format" to "YUY2 - 422YpCbCr8\_yuvs" for better quality and lower latency.
  - Set "Color space" to "Rec. 709" and "Video range" to "Limited".
5. **Add Audio Input Capture:**
  - Click the "+" button again under "Sources".
  - Choose "Audio Input Capture".
  - From the "Device" drop-down list, select "VC-001".
6. **Adjust Audio Monitoring:**
  - In the "Audio Mixer" section, click the gear icon next to your audio source.
  - Set "Audio Monitoring" to "Monitor Only (mute output)" or "Monitor and Output" as needed.



Image: Screenshot of OBS Studio showing how to add a new source and select "Video Capture Device".



Image: Screenshot of OBS Studio showing recommended settings for configuring the video capture source (VC-001 Video, 1920x1080, 60 FPS, YUY2, Rec. 709, Limited).

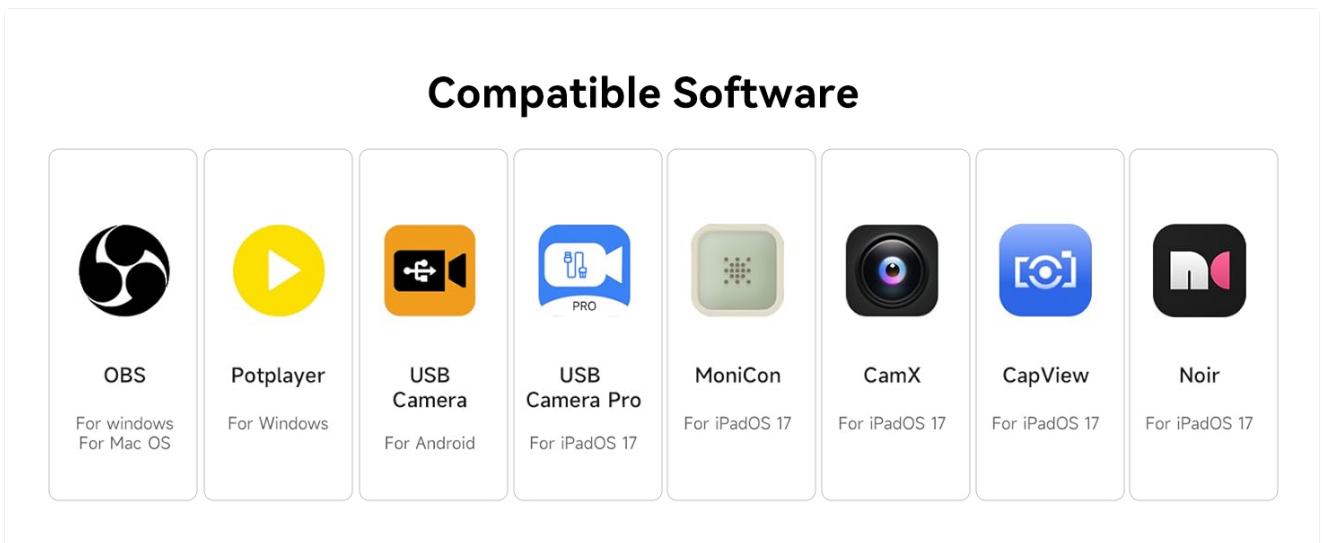


Image: Screenshot of OBS Studio showing how to add an "Audio Input Capture" source and select "VC-001".



Image: Screenshot of OBS Studio showing how to adjust audio monitoring settings in the Audio Mixer, with options for "Monitor Only (mute output)" and "Monitor and Output".

## MAINTENANCE

- Keep the device in a dry environment and avoid extreme temperatures.
- Clean the device with a soft, dry cloth. Do not use liquid cleaners.
- Avoid bending or stressing the integrated cables excessively to prevent damage.
- Ensure proper ventilation around the device during extended use, as it may generate some heat.

## TROUBLESHOOTING

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- **No Signal/Device Not Recognized:**

- Ensure all cables are securely connected.
- Try reconnecting the capture card to a different USB port on your computer.
- Restart your computer and the source device.
- Verify that your source device is outputting video correctly.
- For iPads, ensure it has a USB-C port and is running iPadOS 17 or later.

- **Device Gets Warm During Use:**

- It is normal for the device to generate some heat during operation, especially with Power Delivery enabled or during prolonged use. Ensure it has adequate airflow.

- **Lag or Stuttering Video:**

- Ensure your computer meets the minimum system requirements for your streaming/recording software.
- Close unnecessary applications running in the background.
- Verify that your USB port is USB 3.0 for optimal bandwidth.
- In OBS, ensure the video format is set to YUY2 for better performance.

- **Nintendo Switch 2 Incompatibility:**

- The VANGREE USB C Capture Card is not compatible with Nintendo Switch 2.

## SPECIFICATIONS

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Feature	Detail
Brand	VANGREE
Model Number	VC-001
Hardware Interface	USB, USB 3.0, USB 3.0 Type A, USB 3.0 Type C
Video Capture Resolution	1080p@60Hz (2K@30Hz)
Power Delivery	100W PD (Input)
Operating System Compatibility	Windows 8.1/10, Linux, iOS17, Android, macOS
Recommended Uses	Game Recording, Image Capture, Live Streaming, Video Recording
Item Weight	3.52 ounces
Package Dimensions	5.87 x 3.82 x 1.18 inches

## WARRANTY AND SUPPORT

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For any after-sales service or support inquiries, please contact VANGREE customer service directly. If the Amazon return period has expired, kindly get in touch with [service@vangree.net](mailto:service@vangree.net) for assistance.