

USB Camera

User's Manual

V1.0.0

Foreword

General

This manual introduces the functions and operations of the USB camera device (hereinafter referred to as "device").

Safety Instructions

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
TIPS	Provides methods to help you solve a problem or save you time.
NOTE	Provides additional information as the emphasis and supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.0	First release.	May 2020

About the Manual

- The manual is for reference only. If there is inconsistency between the manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related jurisdictions. For detailed information, refer to the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurring when using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings



Environment

- Do not aim the device at strong light to focus, such as lamp light and sun light.
- Transport, use and store the device within the range of allowed humidity and temperature.
- Keep the camera away from water or other liquid to avoid damages to the internal components.
- Keep sound ventilation to avoid heat accumulation.
- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.
- Pack the device with standard factory packaging or the equivalent material when transporting the device.
- It is recommended to use the device together with lightning arrester to improve lightning protection effect.
- It is recommended to ground the device to enhance reliability.
- It is recommended to use qualified video transmission cable to improve video quality. It is recommended to use RG59 coaxial cable or higher standard.



- Use standard components or accessories provided by manufacturer and make sure the device is installed and maintained by professional engineers.
- The surface of the image sensor should not be exposed to laser beam radiation in an environment where a laser beam device is used.
- Do not provide two or more power supply sources for the device; otherwise it might damage the device.

1 Introduction

The USB cameras support the following features. (Some models only support part of the following features.)

- Support USB2.0 port; plug and play with no need for drive installation.
- Support UVC protocol, and adaptive to various operation systems without any drive such as Windows, Linux, Mac OS and Android.
- Support UAC protocol and synchronous video and audio recording.
- Support video output of YUV/MJPEG/H.264.
- Adopt CMOS image sensor of high performance to output 720P/1080P/4M/5M video images.
- Support far-field pickup, beamforming and audio noise reduction, ensuring sound clarity and original sound restoration.
- Support auto electronic shutter and auto gain, adapting to various environments.
- Support auto focus distance within 0.5 m to 5 m, self-adaptive with scenario and object distance.
- Support privacy mask switch for privacy protection and status indicators.

2 Design

2.1 Dimension

Figure 2-1 Model A (mm [inch])

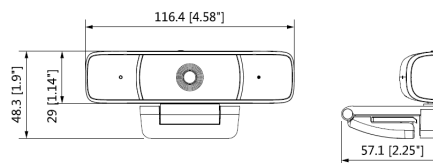
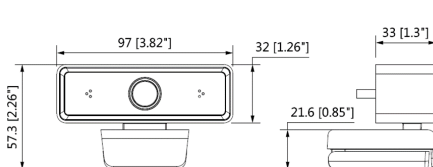


Figure 2-2 Model B (mm [inch])



2.2 Structure



Take Model A as an example. Structure may vary with different devices, and the actual product shall prevail.

Figure 2-3 Structure (1)

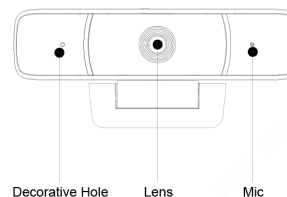


Figure 2-4 Structure (2)

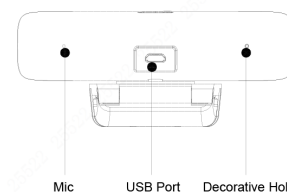
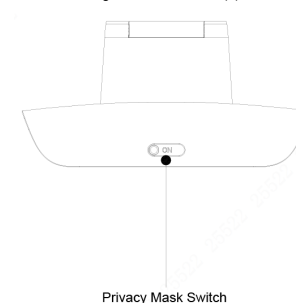


Figure 2-5 Structure (3)



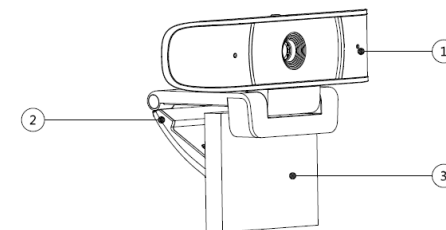
3 Installation



- Install the device in time after it is taken apart, which is to avoid the camera module being exposed to damp environment for too long.
- Do not tear off the electrostatic adsorption film (if any) on the surface of transparent cover before installation debugging is completed, which is to avoid damage during installation.
- The installation figures below are for reference only, and the actual model shall prevail.

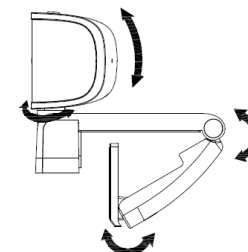
3.1 Model A

Figure 3-1 Installation of model A



- Step 1** Rotate the camera mounting bracket ② outwards and open it. Clamp it to the mounting surface ③. Adjust the camera ① to the ideal angle.

Figure 3-2 Adjustment of model A

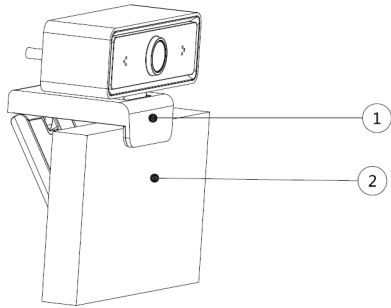


- Step 2** Connect the USB camera to computer with USB cable. When the device works normally, the indicator will turn on. The indicators have the following status.

- Red: Standby mode.
- Blue: Video calling mode.

3.2 Model B

Figure 3-3 Installation of model B



Step 1 Rotate the camera mounting bracket ① outwards and open it. Clamp it to the mounting surface ②. Adjust the camera to the ideal angle.

Step 2 Connect the USB camera to computer with USB cable. When the device works normally during a video call, the blue indicator will turn on.

Appendix 1 Maintenance



In order to maintain the image quality and proper functioning of the device, please read the following maintenance instructions carefully and hold rigid adherence.

Maintaining Lens and Mirror Surface

The lens and mirror surface are covered with antireflection coating, which could be contaminated or damaged and result in lens scratches or haze image when being touched with dust, grease, fingerprints and other similar substances. Please refer to the following methods to deal with once dirt is found:

- Stained with dirt
Use oil-free soft brush or hair dries to remove it gently.
- Stained with grease or fingerprint
Use soft cloth to wipe the water drop or oil gently to make it dry, then use oil-free cotton cloth or paper soaked with alcohol or detergent to wipe from the lens center to outward. It is ok to change the cloth and wipe several times if it is not clean enough.

Maintaining Device Body

- Device body can be cleaned with soft dry cloth, which can also be used to remove stubborn stains when moistened with mild detergent.
- To avoid possible damage on device body coating which could cause performance decrease, do not use volatile solvent such as alcohol, benzene, diluent and so on to clean the device body, nor can strong, abrasive detergent be used.