

ST-WEBCAM User Manual



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In the event of any conflicts between this manual and the applicable law, the later prevails.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into “Warnings” and “Cautions”.

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.



Warnings Follow these safeguards to prevent serious injury or death



Cautions Follow these precautions to prevent potential injury or material damage.

Warnings


- Installation and use of the product must be in strict compliance with the local electrical safety regulations.
- Use the power adapter provided by qualified manufacturer. Please refer to technical specifications for power adapter requirements.
- To avoid fire hazard or electric shock, DO NOT expose the device to rain or extremely damp environments.
- The wiring system of the building should be facilitated with easy-to-use power-off devices.
- When the device is mounted on wall or ceiling, the device shall be firmly fixed. (The company is not responsible for any problems caused by unauthorized modification or maintenance.)

Cautions

- The device will be charged by specified source which the output circuit comply with LPS/PS 2.
- DO NOT drop the product or subject it to physical shock. Keep the device away from magnetic interference. (Otherwise, the product may be damaged.)
- DO NOT touch the heat dissipation component to avoid burns.
- DO NOT install indoor product where it may get wet by water or other liquid.
- DO NOT expose the device to extremely hot, cold, dusty, corrosive, or damp environments. For temperature and humidity requirements, see device specification.
- DO NOT aim the lens at the strong light such as sun or laser beam. The strong light can cause fatal damage to the device.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- If necessary, use a soft and wet cloth or other substitutes to clean the sensor gently.
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibilities.

Mark Description

Table 0-1 Mark Description

Mark	Description
	DC Voltage

Specifications

Camera	
Image Sensor	2 MP CMOS
Signal System	PAL/NTSC
Frame Rate	MJPG: 1920 X 1080 @ 30/25 fps 1280 X 960 @ 30/25 fps 1280 X 720 @ 30/25 fps 640 X 480 @ 30/25 fps YUV: 1920 × 1080 @ 5 fps 1280 × 960 @ 5 fps 1280 × 720 @ 5 fps 640 × 480 @ 30 fps
Resolution	1920 (H) × 1080 (V)
Min. Illumination	0.1 Lux @ (F1.2, AGC ON)
Shutter Time	PAL: 1/25 s to 1/50,000 s; NTSC: 1/30 s to 1/50,000 s
Lens	3.6 mm fixed focal lens
Field of View	horizontal FOV: 80.3°, vertical FOV: 50.8°, diagonal FOV: 88.7°
Lens Mount	M8
Day & Night	24/7 Color Imaging
Angle Adjustment	pan: 360°; tilt: -15° to 15°; rotation: 0°
Cable Length	1.5 m (4.92')
Depth of Field	0.5 m to ∞ (1.64' to ∞)

Interface	
Video Output	USB 2.0
Audio In	Built-in mic
Operating System	Windows 7/10, Android, Linux, macOS

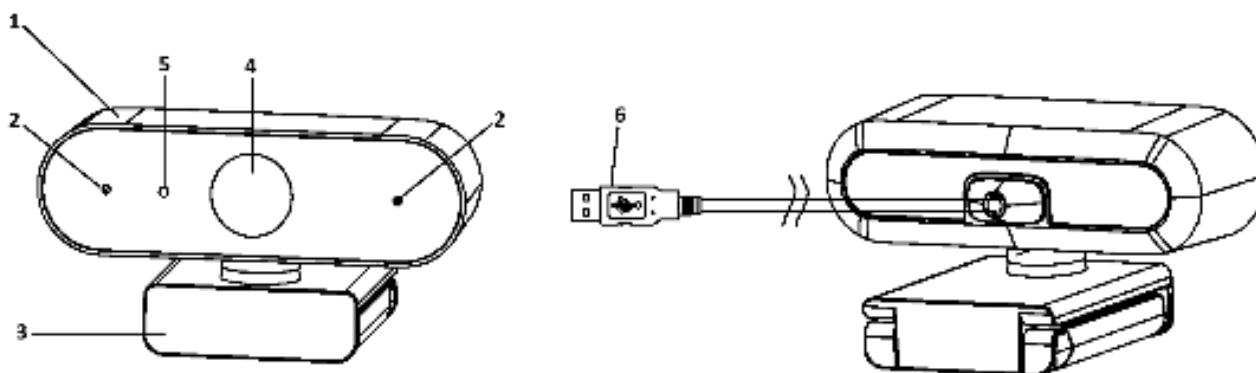
General	
Operating Conditions	50°F to 113°F (10°C to 45°C), Humidity: 90% or less (non-condensing)
Power Supply	DC 5V ± 5% (USB)
Consumption	Max. 1.2 W"
Dimension	3.16" x 1.91" x 1.66" (80.16 x 48.6 x 42.18 mm)
Weight	0.2 lbs. (Approx. 89g)
Warranty	1-Year Limited Warranty

1 Introduction

1.1 Product Features

- Key features of the device include:
- High-performance CMOS
- Sharp and high-quality images
- AGC for self-adaptive brightness
- Built-in microphone with clear sound
- USB interface. Plug-and-play, no need to install driver software
- 360° horizontal rotation

1.2 Overview



No	Description	No	Description
1	Main Body	4	Lens
2	Microphone	5	Indicator
3	Bracket	6	USB Cable

Notes:

- The indicator in red means the device is standing by. The indicator in blue means the device is on video call.
- It is recommended to peel off the protective film before using.

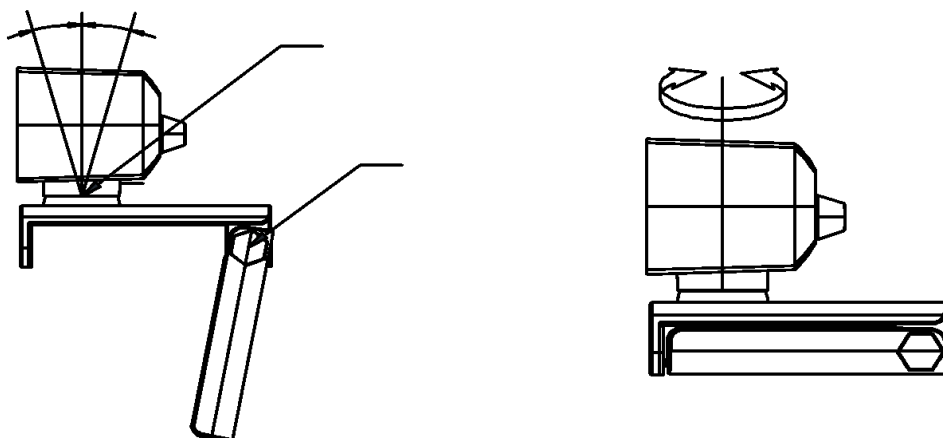
2 Installation

Before you start

- Make sure that the device in the package is in good condition and all the assembly parts are included.
- Make sure that all the related equipment is powered off during the installation.
- Check the specifications of the product for the installation environment.
- Check whether the power supply is matched with your power output to avoid damage.
- If the product does not function properly, contact your dealer or the nearest service center. DO NOT disassemble the camera for repair or maintenance by yourself.

2.1 Angle Adjustment

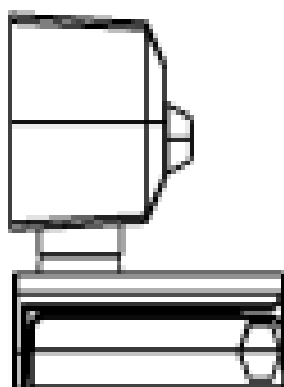
The device can be adjusted as shown in Figure 2-1.



2.2 Mounting Methods

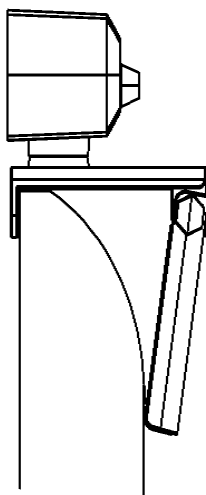
2.2.1 Place on the Desktop

You can place the device on the desktop in the following configuration.



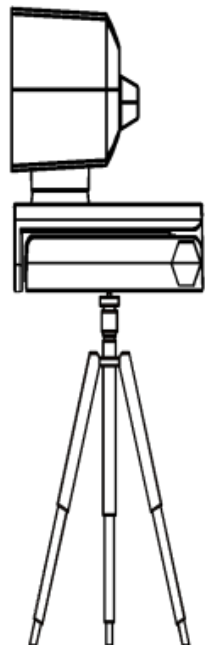
2.2.2 Clamp on the Display

You can clamp the device on displays of varying thickness.



2.2.3 Install to the Bracket

You can also install the device to a bracket using the 1/4-20UNC-2B screw hole.



Note: The bracket can be purchased separately.

3 FAQ

Question: The device is plugged in, but the preview software (for example, AMCap 3.0.9) does not show preview image.

Answer: *Open Device Manager to check if the web camera is recognized. If not, check whether the device is turned on, or plug the camera into another USB port. When the camera is recognized, open AMCap 3.0.9. Go to the menu and check the device name under Devices and Preview under Options.*

Question: The device delivers 4K image in AMCap 3.0.9, but the actual frame rate cannot reach 30 fps in spite of setting the frame rate at 30 fps.

Answer: *Uncheck Use Frame Rate in Capture-> Set Frame Rate... in AMCap 3.0.9 menu.*

Question: The device is plugged in, but no audio out.

Answer: *Check PC settings. Go to Control Panel -> Sound -> Recording, and select the device. Click Properties, and check Listen to this Device.*

Question: The volume of recorded sound is low.

Answer: *Check your PC settings. Go to Control Panel -> Sound -> Recording, and select the device. Click Properties, and set the level of the Microphone to 100.*



DATATRONIX 1-Year Limited Warranty

DATATRONIX. (the "Company") warrants to the Original Purchaser that the item purchased is free from defects in workmanship or material under normal use. This warranty starts on the date of shipment of the hardware to the Original Purchaser.

During the warranty period, the Company agrees to repair or replace, at its sole option, without charge to Original Purchaser, any defective component. To obtain service, the Original Purchaser must return the item to the Company properly packaged for shipping. All defective products must be returned to the Company within thirty (30) days of failure. Products must be returned with a description of the failure and Return Merchandise Authorization (RMA) number supplied by the Company. To receive a RMA number and a return shipping address on where to deliver the hardware, call 610-429-1821. The shipping, and insurance charges incurred in shipping to the Company will be paid by Original Purchaser, and all risk for the hardware shall remain with the Original Purchaser until such time as Company takes receipt of the hardware. Upon receipt, the Company will promptly repair or replace the defective unit, and then return said unit to Original Purchaser, shipping prepaid. The Company may use reconditioned or like-new parts or units, at its sole option, when repairing any hardware. Repaired products shall carry the same amount of outstanding warranty as from original purchase. Any claim under the warranty must include dated proof of purchase or invoice. In any event, the Company's liability for defective hardware is limited to repairing or replacing the hardware.

This warranty is contingent upon proper use of the hardware by Original Purchaser and does not cover: if damage is due to Acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), accident, unusual physical, electrical, or electromechanical stress, modifications, neglect, misuse, operation with media not approved by the Company, tampering with or altering of the hardware, riot, war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or interruption or failure of electricity, air conditioning, or humidity control, internet, network, or telephone service

The warranties given herein, together with any implied warranties covering the hardware, including any warranties of merchantability or fitness for a particular purpose, are limited in duration to one year from the date of shipment to the Original Purchaser. Jurisdictions vary with regard to the enforceability of warranty limitations, and you should check the laws of your local jurisdiction to find out whether the above limitation applies to you.

The Company shall not be liable to your for loss of data, loss of profits, lost savings, special, incidental, consequential, indirect, or other similar damages arising from breach of warranty, breach of contract, negligence, or other legal action even if the Company or its agent has been advised of the possibility of such damages, or for any claim brought against your by another party. Jurisdictions vary with regard to the enforceability of provisions excluding or limiting liability for incidental or consequential damages. You should check the laws of your local



jurisdiction to find out whether the above exclusion applies to you.

This warranty allocates risks of product failure between Original Purchaser and the Company. The Company's hardware pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors, and dealers of the Company are not authorized to make modification to this warranty, or additional warranties binding on the Company. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by the Company and should not be relied upon.

This warranty gives you specific legal rights. You may also have other rights which vary from one jurisdiction to another.

Product Notes:

Model Number:	
Serial Number:	
Purchase Date:	
Purchased from:	
Install Date:	