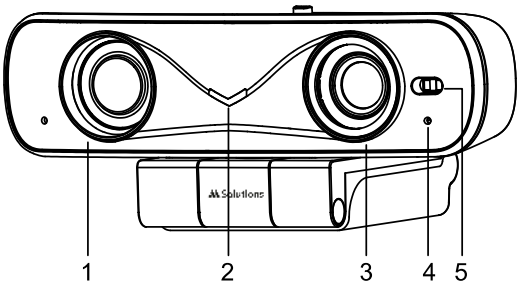
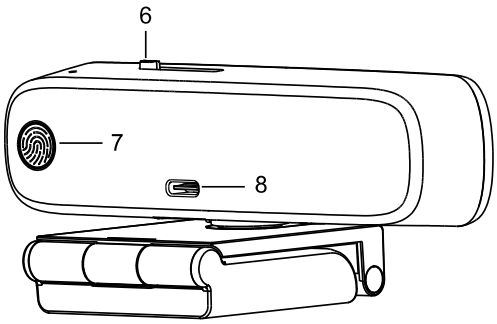
Solutions

MS-MiniBEAM Integrated USB Camera Quick Start Guide

1 Appearance and Interface





No.	Name	No.	Name
1	Speaker	3	Lens
2	Indicator: OFF: Power off; Blinks: Power on and initializing; Red: MIC muted; Blue: Landscape mode; Violet: Portrait mode; Violet (blinks): Upgrading (Do not cut off the power at this time.	4	Microphone
		5	TOF (Laser Assisted Focus)
		6	Privacy Security Switch Button
		7	Touch Button: ● Short press to mute or unmute MIC. ● Press and hold for 8s to switch to landscape and portrait mode.
		8	TYPE-C Interface

2 Packing List

Name	Quantity	Name	Quantity
Camera	1	Quick Start Guide	1
USB Cable	1	-	-

3 Product Features

Integrated Bionics Design to Simplify the Complex

Integrated high-definition camera with high-sensitivity omnidirectional microphone, full-frequency speaker three-in-one design, plug and play and making video communication easy and simple. The unique bionic design allowing you to get excellent audio-visual effects in video communications.

Full-frequency Speaker

Use full-frequency speaker with ducted sound cavity, the treble is clear and penetrating and the bass is naturally surging to providing an extraordinary sound effect.

1080P Full HD Ultra-wide Angel without Distortion

Support 1080P high definition, provide image encoding output up to 1080@30fps/25fps and downward compatible with 720P and other resolutions. Wide-angle lens with wider field Angle.

Audio 3A Algorithm

The built-in audio 3A algorithm (AEC/AGC/ANS) and full-duplex mode adjust the high and low volume of the balance and suppress the noise automatically while in voice collection to meet your needs for loud and clear communication.

Landscape and Portrait Mode

Support one-key landscape and portrait switching output to meet the needs of various landscape and portrait live scenes.

Built-in Physical Privacy Masking

Equipped with an integrated sliding privacy cover to security the privacy.

e-PTZ

No mechanical rotating device needed for more accurate rotation accuracy, no noise, more reliable and durable, support 4x digital zoom.

TOF Focus

Equipped with a laser assisted focusing instrument and realize high-speed and accurate auto focusing through the advanced auto focusing algorithm.

Low Illumination

The application of 2D and 3D noise reduction algorithm greatly reduces the image noise even under the condition of ultra-low illumination, it keeps the picture clean and clear, and the SNR of image is as high as 55dB.

Easy Installation

The standard damping rotary support compatible with almost 100% display devices on market, easy to install, stable and reliable.

4 Safety Precautions

- **Caution to Transport**

Avoid stress, vibration or soakage in transport, storage and installation.

- **Careful Installation**

The product should be placed on smooth desktop. The shell of product is an organic material and is strictly prohibited from contact with any liquid, gas or solid material that may cause corrosion to the shell.

- **Do not Disassemble the Camera**

We do not responsible for any unauthorized modification or dismantling.

⚠ Warning

Specific frequencies of electromagnetic field may affect the image of the camera!

5 Product Specification

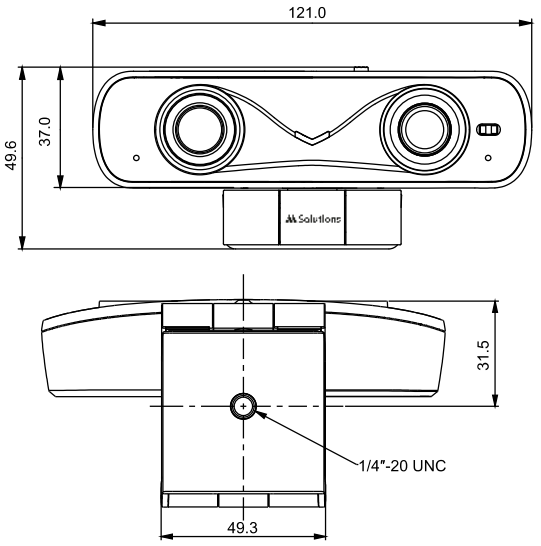
Camera	
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens Mount	M12
Lens	Focus: f=2.8mm
AF	Support TOF
Minimum Illumination	0.5 Lux @ (F2.2, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Manual
Resolution of Landscape Mode	1600 x 896, 320 x 240, 352 x 288, 640 x 480, 720 x 480, 720 x 576, 1280 x 720, 1024 x 768, 1024 x 576, 960x 540, 848 x 480, 800 x 600, 800 x 448, 640 x 360, 512 x 288, 480 x 272, 424 x 320, 424 x 240, 320 x 180, 1920 x 1080
Resolution of Portrait Mode	1080 x 1920, 720 x 1280, 768 x 1024, 576 x 1024, 480 x 848, 448 x 800, 576 x 720, 480 x 720, 288 x 512, 272 x 480, 320 x 424, 288 x 352, 480 x 640, 896 x 1600
Camera Stand	Standard Damping Rotary Support
Physical Privacy Security	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction

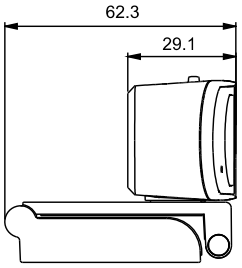
Backlight Compensation	Support
Digital Zoom	4x
Audio Feature	
Audio 3A Algorithm	Support AEC/AGC/ANS
Full-frequency Speaker	82dB SPL at 0.5m
Microphone	Omnidirectional Microphone, Sensitivity: -30±2dB
USB Feature	
Operate System	Windows 7 (only 1080P and below supported), Windows 8.1, Windows 10 or higher; macOS™ 10.10 or higher; Google™ Chromebook™ version 9.0.1547.70 or higher; Linux (support UVC)
Hardware	2.4 GHz Intel® Core 2 Duo CPU or higher; 2 GB RAM or more; USB 2.0 interface
Color System/ Compression	YUY2/MJPG/H.264
Video Format	Up to 1080P@30fps/25fps
USB Protocol	UVC 1.1
UAC	Support
EPTZ	Support Lens Panning and Zooming
Input/Output Interface	
USB Interface	1 x USB 2.0: Type C,
General Specification	
Input Voltage	5V (USB power supply)
Input Current	0.5A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	2.5W
Dimension	121mm x 37 mm x 29.1mm (without bracket)
Net Weight	0.1Kg

Note

The manual white balance, digital zoom and EPTZ functions can only be realized by using an application with this function.

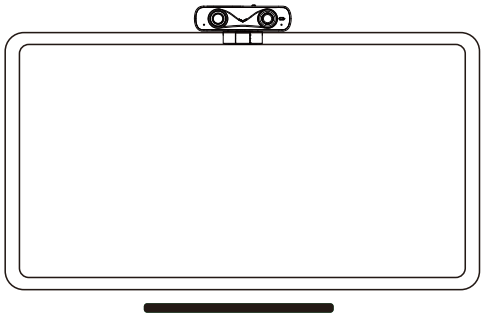
6 Dimensions





7 Installation

When the monitor thickness is ≤45mm, the camera can be mounted on it as below:



8 Troubleshooting

Camera Maintains

- If camera will not be used for a long time, please disconnect the AC power adapter from the AC outlet.
- Use soft cloth to clean camera cover.
- Please use the soft dry cloth to clean the lens. If the camera is very dirty, clean it with diluted neuter detergent. Do not use any type of solvents, which may damage the surface.

Unqualified Application

- Do not shooting extreme bright object for a long time, like sunlight, etc.
- Do not operating in unstable lighting conditions, otherwise image will be flickering.
- Do not operating close to powerful electromagnetic radiation, such as TV or radio transmitters, etc.

Troubleshooting

Image

- Image jitters after the camera is properly connected

1) Check that the camera installation is stable.
2) Check that any vibrating machinery or object near the camera.

9 Toxic and Harmful Substances

Part Name	Toxic or harmful substances or elements					
	(Pb)	(Hg)	(Cd)	(CrVI)	(PBB)	(PBDE)
Metal	x	O	O	O	O	O
Plastic	O	O	O	O	O	O
Glass	x	O	O	O	O	O
Circuit board	x	O	O	O	O	O
Power	x	O	O	O	O	O
Attached	x	O	O	O	O	O

This form is compiled in accordance with SJ/T 11364.

O: Indicates that the content of the hazardous substance in all homogenized materials of the component is subject to the limit specified in GB/T 26572.

x: Said the hazardous substance in at least one of the components homogenized material content in excess of the GB/T 26572 limit requirements, and there are no mature alternatives.