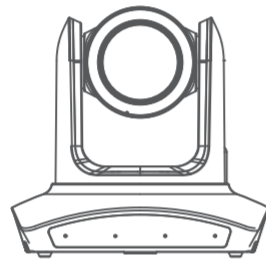


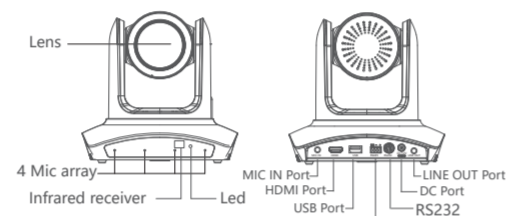
100mm

**MC3000 USB HD PTZ AUTO ROTATE TRACKING VOICE CAMERA**

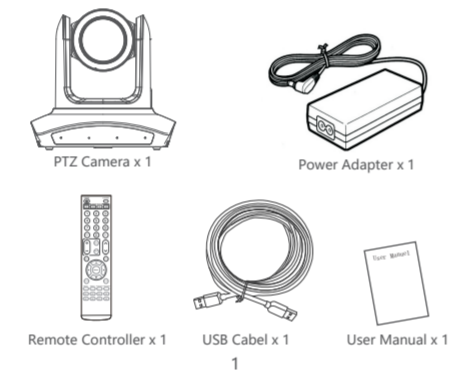


User Manual

**1. Product Display**

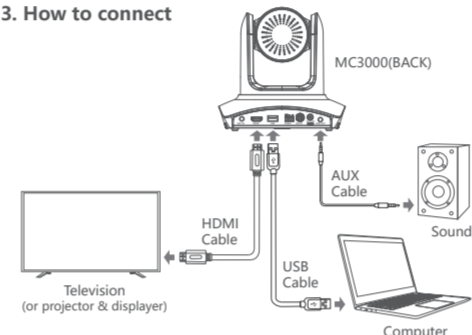


**2. Packing Box**



- 4 MIC Array System  
4 Digital MIC Array, 10 meters voice pick up
- Automatic Echo Noise Reduction Control(AEC)  
Automatic Gain Control(AGC)  
Automatic Noise Reduction Control(ANC)
- Voice Automatically Locate  
Technical innovation, unique functions. The camera will follow the voice and automatically locate the person speaking. So that the speaker in the meeting will always appear in the lens.
- 1080P  
2.2 million pixels 1/2.8inch HD CMOS sensor, can achieve 1920x1080 HD picture
- Ultra-High Frame Rate  
MJPEG Output Frame Rate 1080P/30fps
- USB2.0, HDMI port, Audio input  
USB2.0 plug and play, easy to use  
HDMI output  
AUX port for Audio input
- Long-Range Control  
Supporting RS232/USB2.0 interface long-range upgrade maintain functions
- Control Protocol Automatic Identification Technology  
VISCA, PELCO protocol automatic identification technology, don't need to dial-up or menu setup
- Image Flipping Technology  
To achieve camera image flip, zoom, PTZ control and etc by free exclusive control software.
- Multiple Application Scene  
Education, Conference, Medical Treatment and etc

**3. How to connect**



※ How to confirm that this product is correctly recognized by the computer.

In the process of running the application, if you change the connector or settings, it may not be recognized immediately, please end the application once and start again.

**Win10**

- Start button, click the camera to confirm whether the camera is connected normally. If the screen normally plays back the images captured by the camera, the camera is successfully connected.

- You can make the camera settings you need.
- If there are multiple cameras or the camera is not displayed, please click to replace the camera.



**Win8**

- Start button, click the camera to confirm whether the camera is connected normally. If the screen normally plays back the images captured by the camera, the camera is successfully connected.



- You can make the camera settings you need.



**Mac**

- Start the "photo booth" and select the MC3000 from the camera



- The preview screen will play the image taken by the MC3000



**4. Product Specification**

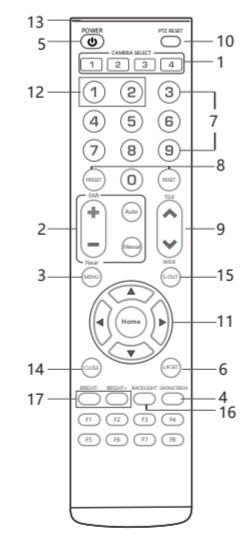
Specification Model	MC3000
<b>Camera, lens Parameter</b>	
Image Sensor	1/2.8inch CMOS
Min Lux	0.1Lux(F1.2)
Effective Pixel	2.2 million pixels
Zoom	12X Optical
Shutter Speed	1 to 1/10000s
Horizontal Field of View	69.4° (W) ~ 6.55° (T)

<b>Frame Rate</b>	1920×1080,1280×720, 640×480
<b>Focus Mode</b>	Auto
<b>Aperture Mode</b>	Auto
<b>Backlight Compensation</b>	Support
<b>Wide Dynamic</b>	Support
<b>Picture Adjustment</b>	Brightness, Chroma, Saturation, Contrast, Acutance
<b>Microphone Parameter</b>	
<b>MIC Array Quantity</b>	4
<b>MIC Array Form</b>	linear
<b>MIC Specification</b>	digital microphone
<b>Sampling Rate</b>	16KHz/48KHz
<b>Sensitivity</b>	-26dBfs
<b>Far-field Pick up Voice Distance</b>	0-10meters
<b>Horizontal Voice Pick up Angle</b>	Horizontal 180°
<b>SNR</b>	65dB
<b>Communication Mode</b>	full duplex
<b>Interface Parameter</b>	
<b>Video Interface</b>	USB2.0 HDMI
<b>Video Compressed Format</b>	MJPEG/H.264
<b>Control Interface</b>	RS-232, USB2.0, UVC
<b>Control Agreement</b>	VISCA/PELCO-D/PELCO-P
<b>Communicate Baud Rate</b>	2400/4800/9600/11520/19200/38400
<b>Power Interface</b>	DC-038 power socket (DC12V)
<b>Video Interface</b>	USB2.0

PTZ Parameter	
Pan Rotation	-170°~ +173°
Tilt Rotation	-30°~ +90°
Horizontal Rotate Speed	0.1~100°/second
Vertical Rotate Speed	0.1~80°/ second
<b>Other Parameter</b>	
Power Adapter	Input AC100V~AC240V Output DC12V/2A
Decoder	Built in
Input voltage	DV12V
Power Consumption	12W (MAX)
Storage Temperature and Humidity	-10°C ~ +60°C / 20% ~ 95%
Working temperature and Humidity	-10°C ~ +50°C / 20% ~ 80%
Operating Environment	Indoor

- Advantage Features**
1. Built-in 4 digital microphone array and 10Meters voice pickup and tracks the voice.
  2. Automatically locate vocals. The camera automatically rotates and tracks the voice.
  3. 2.2million pixels, 1/2.8" HD color CMOS sensor, 1920\*1080HD display.
  4. Horizontal -170°to 173°, vertical-30°to 90°camera rotation.
  5. Support 3.5mm line speaker out external function.
  6. Support external microphone input.

**5. Remote Controller Specification**



1. Infrared on/off
2. Focus mode selection(AUTO; MANUAL)
3. Menu  
For menu display, work with UDLR(Up, Down, Left,Right) to select functions on menu



4. Backlight compensation on/off
5. Standby mode on/off
6. Head horizontal reversing button (work with button 12)
7. Preset keys, to choose presets by numbers directly
8. Delete presets, work with number buttons
9. Zoom button, SLOW T/W, FAST T/W
10. Head reset button, to return to its original position
11. Head control button, UDLR(Up, Down, Left,Right)
12. Horizontal reversing function button, work with button 6
13. Remote transmitter window
14. Menu exit
15. Switch to 720P50 resolution with one click
16. Screen display information on / off
17. Brightness adjustment button, to increase or decrease brightness

**6. Precaution**

- **Electrical Safety**  
Confirm country and local electrical safety standards when using or installing the product. The product itself has no power switch. Please stop power supply or plug out power socket when it is not in good working. Video wire and control wire should be insulated and individual connected, can't mix-up with other wires.
- **Transportation with Care**  
Product should be protected against extremes of stress, vibration and moisture in transport, storage and installation. It is transported by integrated packing style.
- **Power Supply**  
Product supplies 12V DC power.
- **Installation with Care**  
Don't turn the camera head manually. Doing so may result in mechanical damage.  
The product should be put on a stable horizontal table and does not be installed at a tilt, or else, which may cause a tilted image.  
Don't focus the camera directly on the sun or other bright objects no matter when in use or not. Otherwise, it may affect image quality.  
Don't apply corrosive liquid, gas or solid, to avoid damaging the cover which is made up of plastic material.  
Make sure there is no obstacle with the camera's rotational range when installing.

Never power on before installation has been completed.

- **Prohibited Unauthorized Disassemble**  
There is no part for users to disassemble voluntarily. The Company is not responsible for any unauthorized modification or dismantling.  
Before the installation of the company's products, please read the product manual carefully.

**7. FAQ Processed**

- **Image aspect**
- **No image displayed**
  - 1) To check whether the camera power is connected, the voltage is normal, and the power indicator is always on.
  - 2) Plug in the power again, to check whether the camera can self-test normally.
  - 3) To check whether the USB port and USB cable of the terminal device are connected correctly.
- **The image breaks frequently**  
To check whether the USB port and USB cable of the terminal device are connected correctly.
- **The definition is not good after accessing software**  
To check the software video input settings to see if the camera video input is set to 1920 \* 1080.

**Control aspect**

- **Remote controller doesn't work**
  - 1) Check and replace the batteries.
  - 2) Check if the camera working mode is correct.
- **The serial port cannot be controlled**
  - 1) Check if the protocol and address of the camera are consistent.
  - 2) Check if the camera USB cable is well connected.

**8. RS232**

graphic	Number	Cameta	Number	Cameta
	1	DTR	5	RXD
	2	DSR	6	GND
	3	TXD	7	IR OUT
	4	GND	8	NC

- **9. Warranty and Service Information**  
One-Year Warranty a limited one-year warranty applies to all Moertek products. Warranty terms Limited One (1) Year Warranty Moertek warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below) for a period of one (1) year from the date of purchase.  
You will need to return the product to the dealer in either its original packaging or packaging affording an equal degree of protection. The following information must be presented to obtain Warranty Service: (a) the product, (b) proof of purchase, which clearly indicates the date of purchase and the product type, and (c) reason for return.

This Warranty does not cover defects or damages that result from: (a) improper storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, extreme humidity, extreme heat, or food; (c) use of the product or accessories for commercial purposes or subjecting the product or accessories to abnormal usage or conditions; (d) other acts which are not the fault of Moertek. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Moertek or a Moertek dealer which is authorized to do Moertek warranty work. This Warranty does not cover defects or damages that result from the use of non-Moertek branded or uncertified products, accessories, or other peripheral equipment, nor does this Warranty apply to products which have not been charged for six (6) months. If the battery in a product has not been charged for a period of six (6) months, the product might not function or regain its full potential and long-term performance. Moertek does not offer any warranty for such performance.



website: [www.moertek.com](http://www.moertek.com)  
support: [support@moertek.com](mailto:support@moertek.com)

size: 490x100mm, 128g铜板纸, 黑白印, 双面印, 风琴折, 成品尺寸: 70x100mm