



Press Controller  
One-Way Articulation

1W Series



Joystick Controller  
Four-Way Articulations

4W Series



Lever Controller  
Two-Way Articulations

2L Series



Knob Controller  
Two-Way Articulations

2W Series

## Specification

Series	100	164	209	311	363	
Resolution	Half-VGA	1 MP	1 MP	2 MP	5 MP	
Dimension (mm)	Ø 2.8	Ø 4.2	Ø 4.2	Ø 6~7.9	Ø 6~7.9	
Interface	USB 2.0	●	●	●	●	
	USB 3.0	N/A	●	N/A	●	
UVC Format	H.264	N/A	N/A	●	N/A	
	MJPEG	●	●	●	●	
	YUV	●	●	●	●	
Articulation	One-Way Rigid Tube Length 45.6 cm / Bending Angle 180°					
	Radius Of Gyration (mm)	N/A	N/A	N/A	28 / 35	28 / 35
	Bending Length (mm)	N/A	N/A	N/A	33	33
	Two-Way Tungsten Wire Braided Sleeving 200 cm / Bending Angle 190°					
	Four-Way Tungsten wire Braided Sleeving 200 cm / Bending Angle 135°					
	Radius Of Gyration (mm)	17.8	TBD	TBD	38	38
Bending Length (mm)	24	TBD	TBD	43	43	
Image Sensor	1/18"	1/11"	1/9"	1/6"	1/5"	
Image Area (mm)	0.714 x 0.707	1.446 x 0.91	1.819 x 1.033	2.788 x 1.5498	2.90 x 2.18	
Pixel Size (µm)	1.75 x 1.75	1.116 x 1.116	1.4 x 1.4	1.4 x 1.4	1.12 x 1.12	
Power Source	DC 5V					
Power Current	190 mA					
Focus Distance (mm)	FID 45-20-70					
Storage Temperature	-30 to 60 Degree C					
Working Temperature	-10 to 45 Degree C					
Operating System	Windows XP, Windows Vista, Window 7, Windows 8, Windows 10, Linux, MAC OSX					

## Application

- Vehicle repair and maintenance.
- Household cleaning & maintenance.
- Underwater exploration and observation.
- Pipeline investigation & maintenance.
- Fire rescue search.
- Large precision instrument detection.
- Inspection of hard-to-reach and hard-to-see places.

## Two / Four-Way Articulation

Series	311 (2 MP) / 363 (5 MP)		
Lens	77 / 81	88, 93 / 94, 99	158 / 169
Drawing			
Series	100 (Half-VGA)	164 (1 MP)	209 (1 MP)
Lens	120	120	76
Drawing			

## One-Way Articulation

Series	311 (2 MP) / 363 (5 MP)			
Lens	77 / 81	88, 93 / 94, 99	158 / 169	
ROG	Short			
	Long			

# 10-SVD408-164-2W-120

CABLE	INTERFACE	VIDEO FORMAT	CONNECTOR	PROBE O.D	DISPLAY	SERIES	CONTROLLER	LENS		
<b>Two-Way</b> <b>Four-Way</b> <b>10</b> Tungsten hose braided sleeving	<b>All Series</b> <b>N/A</b> USB 2.0	<b>All Interface</b> <b>V</b> MJPEG / YUV	<b>D</b> USB Type A <b>M</b> USB Micro Type B (OTG) <b>T</b> USB Type C <b>I</b> USB Mini Type B	<b>Two / Four-Way</b> <b>2</b> Ø 2.8 mm	<b>Short ROG</b> <b>08</b> Color <b>M8</b> B/W	<b>100</b> Half-VGA	<b>Four-Way</b> <b>4W</b> Joystick  <b>Two-Way</b> <b>2L</b> Lever <b>2W</b> Knob  <b>One-Way</b> <b>1W</b> Press	<b>Code / Angle</b> <b>Specification</b>		
				<b>4</b> Ø 4.2 mm				<b>164</b> 1 MP <b>209</b> 1 MP	<b>91</b> 0.5 mm / F 3.6 <b>120</b> 0.418 mm / F 5.0	
<b>One-Way</b> <b>80</b> Rigid tube	<b>164 / 311 / 363</b> <b>S</b> USB 3.0	<b>311 / Interface 2.0</b> <b>H</b> MJPEG / YUV / <u>H.264</u>		<b>311 / 363</b>			<b>Code / Angle</b> <b>Code / Angle</b> <b>Specification</b>			
				<b>Two / Four-Way</b> <b>6</b> Ø 6~6.9 mm <b>7</b> Ø 7~7.9 mm  <b>One-Way</b> <b>7</b> Ø 7~7.9 mm	<b>Long ROG</b> <b>00</b> Color <b>M0</b> B/W	<b>311</b> 2 MP <b>363</b> 5 MP	<b>77</b> <b>81</b> 1.83 mm / F 5.0 <b>88</b> <b>94</b> 1.55 mm / F 5.7 <b>93</b> <b>99</b> 1.5 mm / F 5.7 <b>158</b> <b>169</b> 1.523 mm / F 4.8			

\* Probe OD 6 and OD 7 for 311 / 363 only

\* ROG Radius of Gyration

## Two / Four-Way articulation

Select the camera type according to the specifications.

	O.D	Resolution	View Angle	Orientation
	Ø 2.8	Half-VGA	120°	Front view
	Ø 4.2	1 MP	76°	Front view
	Ø 6	2 MP / 5 MP	77° / 81°	Front view
	Ø 7	2 MP / 5 MP	88° / 94°	Front view
	Ø 7.9	2 MP / 5 MP	158° / 169°	Front view
	Ø 6.9	2 MP	77°	Side view

## Camera Parameter Adjustable (MISUMI APP)

Camera parameter can be adjusted on smartphone via the Misumi app and PC viewer software AMCAP.



MISUMI APP

ANDROID APP ON Google Play

NOTE for MISUMI APP:  
UVC Camera does not support Android 10

## All MISUMI UVC Camera are Compatible With MP-WF580KP (WiFi DVR)

For example:  
Our extremely lightweight 1920 x 1080 (1080p) 1/6" CMOS UVC glasses camera is compatible with MP-WF580KP (WiFi DVR).

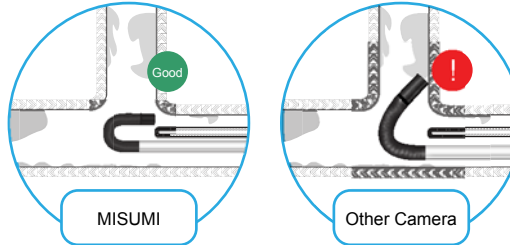
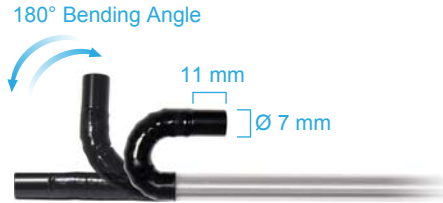
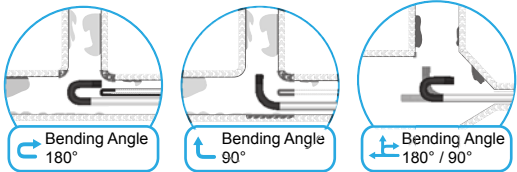
Supports **H.264 video format** input, loop recording, snapshot functions.  
Supports max memory 128 GB (micro SD).

Users can view live streaming video via a smartphone.



About MP-WF580KP:  
It deliver the best 1080p live streaming performance when using H.264 camera.  
When using MJPEG cameras, it can only live stream at resolutions of 720p and below.  
MJPEG cameras delivers the best live streaming performance at 640 x 480 resolution.

**One-Way Articulation**



**Locked / Unlocked Camera Head!**

Flexible control of camera articulation angle can be locked / unlocked at any angles by using the press controller.



**Two Materials of Camera Cable**

Different material for different application.

- Tungsten wire braided sleeving
- Steel Tube



**180 Degree Bending Angle!**

180 Degree bending angle makes it easier to inspect!



**High Brightness LED & Dimmer**

With high-brightness LED, the camera can capture clear images in a completely dark environment. Camera is equipped with dimmer function to control LED brightness for micro focal distance or long focal distance, to prevent exposure in micro focal distance. (IR 940nm & IR 850nm - specify when ordering)



**Short Camera Head!**

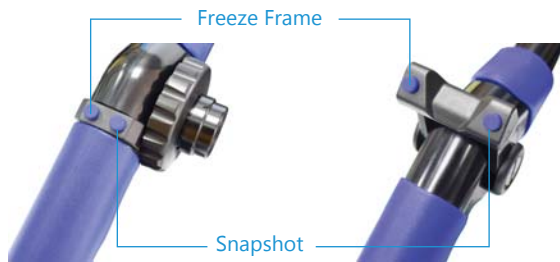
Camera diameter is 7mm and length is 11mm. Short tube head helps to inspect hard-to-reach places or angles.



**Waterproof IP 68**

Protected from total dust ingress. Protected from long term immersion and 1 meter in depth.

**Two-Way Articulation**



**Two Types of Two-Way Articulation Borescope.**

1. Turn the turntable controller to adjust the bending angle.
2. Move the level controller to adjust the bending angle.



**190° Bending Angle**

Two-Way articulation probe bend angle up to 190(-10) degrees with 3d bend angle more than 360 degrees. This flexible design, make it easy to inspect hard-to-reach areas.



**Waterproof IP 68**

Protected from total dust ingress. Protected from long term immersion and 1 meter in depth.



**Tighten / Loosen To Control Camera Head!**

Turn the adjustable wheel to flexibly control camera articulation angle. Articulation angle can be tighten / loosen at any degree.



**Ø 6 x 10.4 mm Short Camera Head!**

Camera diameter is 6 mm. Length is 10.4 mm. A short tube head can helps to inspect hard-to-reach places or angles.



**Freeze Frame & Snapshot Function**

Freeze frame function is perfect during inspection or surgery to pause image and do analysis.

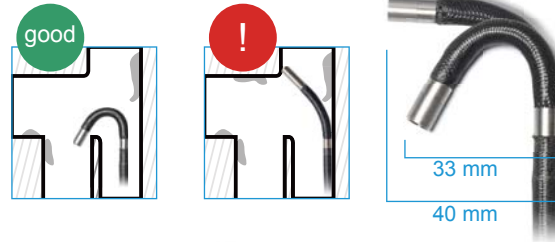
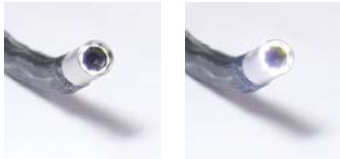
Snapshot function is perfect for capturing and saving the photo during inspection.



**High Brightness LED & Dimmer**

With high-brightness LED, the camera can capture clear images in a completely dark environment. Camera is equipped with dimmer function to control LED brightness for micro focal distance or long focal distance, to prevent exposure in micro focal distance. (IR 940nm & IR 850nm - specify when ordering)

**Four-Way Articulation**



**Four-Way Articulation Borescope.**

Use joystick to control camera head direction: up, down, left, right. 4-way articulation to bend angle up to 135 degrees with rotation angle up to 360 degrees. Makes it easy to inspect hard-to-reach areas.



**Bending Rotation Up To 360 Degrees.**

When bending at 135 degree angle, camera head can turn 360 degree. Makes inspection more flexible and more accurate!



**Freeze Frame & Snapshot Function**

Freeze frame function is perfect during inspection or surgery to pause image and do analysis.

Snapshot function is perfect for capturing and saving the photo during inspection.



**High Brightness LED & Dimmer**

With high-brightness LED, the camera can capture clear images in a completely dark environment. Camera is equipped with dimmer function to control LED brightness for micro focal distance or long focal distance, to prevent exposure in micro focal distance. (IR 940nm & IR 850nm - specify when ordering)



**Waterproof IP 68**

Protected from total dust ingress. Protected from long term immersion and 1 meter in depth.



**Ø 6 x 10.4 mm Short Camera Head!**

Camera diameter is 6 mm. Length is 10.4 mm. A short tube head can help to inspect hard-to-reach places or angles.



**Unlock & Lock to Control Camera Head!**

Turn the joystick to flexibly control camera articulation angle. Articulation angle can be locked / unlocked at any degree.

