WF300 Specification

1、 The size and the weight of main body

The view of 45°

※Matte Black main body

Top view

61mm

※Hot shoe(no electrical connection)

Left view

※Charge Interface (Micro USB port)

※Reset switch

※Illumination input interface

Front view

86mm

※8.0 MP High definition CMOS Sensor

Back view

85mm

※Eye-relief adjustment

※Battery / WiFi / Charge lamp

※USB / WiFi work mode switch

Right view

40mm

105mm

Bottom view
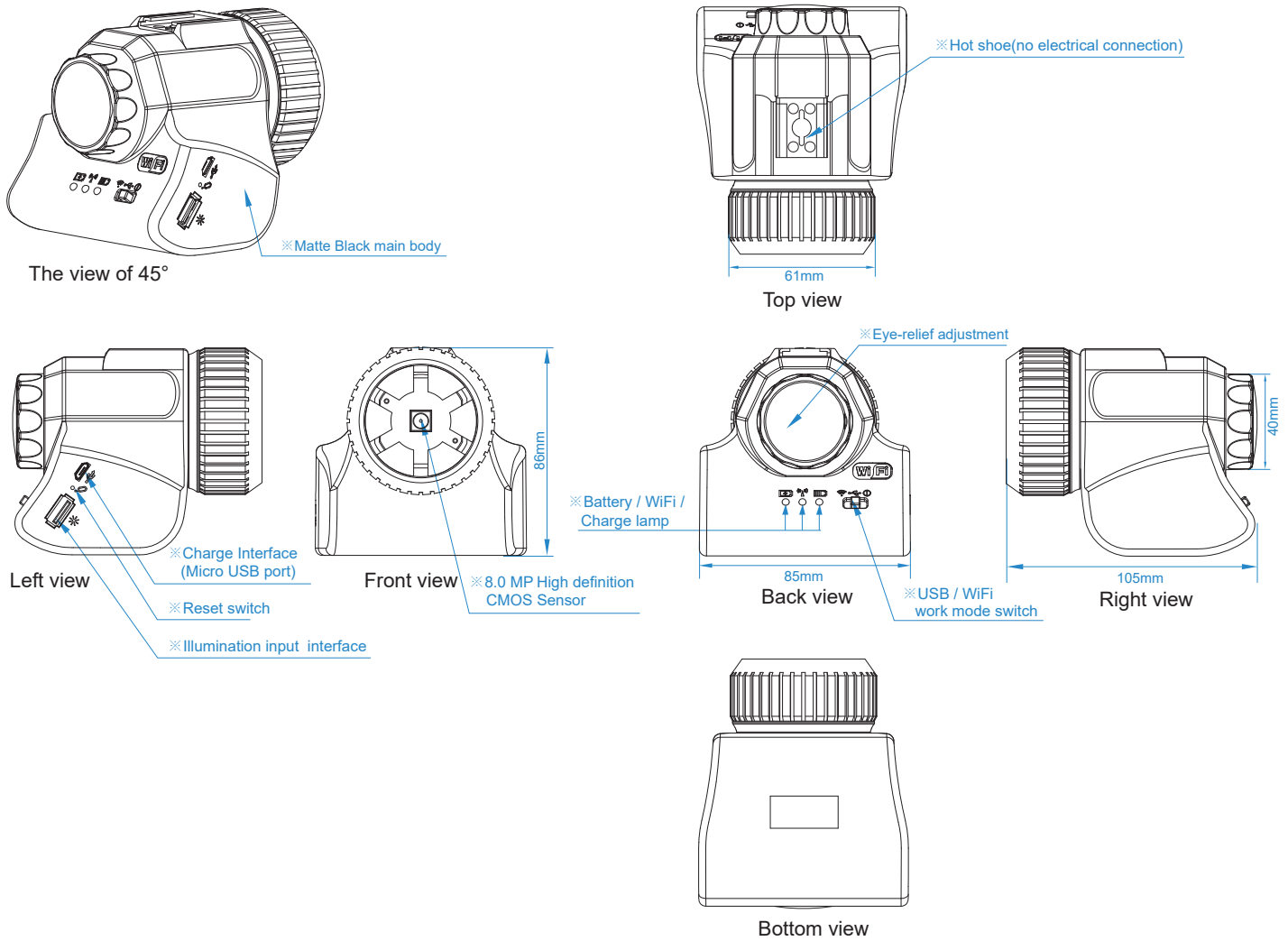
WF300（Body net weight about 300g）

2、 Electrical Property

Hardware configuration	
Image Sensor	Omnivision OV8825 CMOS(colorful)
Scan Mode	Scan line by line
Maximum Resolution	3200 x 2400 (7,680,000 pixels)
Sensor Optical Format	1/3.2〞
Pixel Size	1.4μm x 1.4μm
Dynamic Range	70.45dB
ADC	12-bit, 8-Bit R.G.B to PC
SNRmax	35.7dB
Spectral Charactristics	380-650nm (during daytime mode)
Maximum Transmission Frame Rate（USB mode）	10FPS@2592x1944, 2048x1536 30FPS@1920x1080,1280x960, 1024x768, 800x600, 640x480 60FPS@1280x720
Maximum Transmission Frame Rate（WiFi mode）	10FPS@2592x1944 15FPS@1920x1080 30FPS@1280x960, 1280x720, 1024x768, 800x600, 640x480
Binning Modes	2 x 2
Xposure Capability	3.9ms - 320ms, Automatic and manual
White Balance	Automatic and manual
Software Interface	DirectShow
Capture Modes	Photos and videos

Interface Parameter

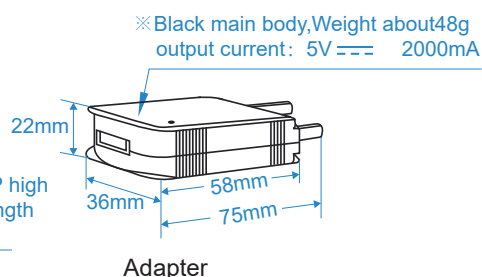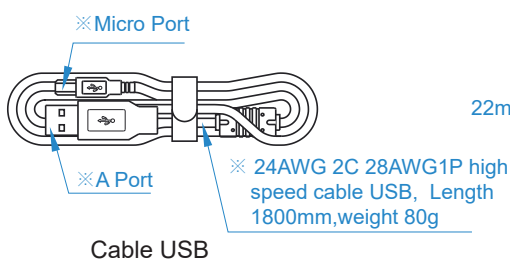|	
Illumination input interface	USB （A FEMALE NUT）, DC5.0V, maxium 1.0A
Wired picture / Charger interface	Micro USB interface USB2.0 DC5.0V 500mA（wired picture）USB 2.0 DC5.0V 2A（when charging power）
Display/ Special illumination device	Hot shoe(no electrical connection)
Camera Interface	Can connect with electron microscope 、 eyepiece interface；Diameter range： Φ20~Φ46mm （realize by 7 accessories: 39~43mm jacket、 36~40mm jacket、 33~37mm jacket、 30~34mm jacket、 27~31mm jacket、 24~28mm jacket、 20~23mm jacket)

Wireless Parameter/Power Parameter

Standard	802.11b/g/n
Operating Frequency Range	2.400 ~ 2.4835GHz
Available Channels	802.11n 20MHz/40MHz
	802.11b/g
	USA, Canada (FCC):11 channels (2.412GHz~2.462GHz)
	Europe （CE): 13 channels (2.412GHz~2.472GHz)
	Japan (TELEC): 14 channels (2.412GHz~2.4835GHz)
Data Rate	802.11n: up to 300Mbps 2T2R
	802.11b: up to 11Mbps
	802.11g: up to 54Mbps
Transmission Power	11n HT40 MCS7 : +16dBm +/-1.5dBm
Receiving Sensitivity	-61 dBm@10% PER at HT40 MCS7
	-68 dBm@10% PER at 54Mpbs
	-85 dBm@10% PER at 11Mpbs
Suggestion on number of receiver on different resolution	10@640x480
	8@800x600
	6@1024x768
	5@1280x720
	5@1280x960
	4@1920x1080
	3@2592x1944
The Wireless work instructions	When there has not WiFi , LED lamp turn off
	When WiFi is opened but do not connect , LED is always lighting
	When WiFi is connected, LED flashes at the beginning and stay turn on afterward
	When WiFi is connected , LED flashes , about once per second , The greater the amount of data the faster it flashes, and it is about 10 times per second
Build in battery	3.7V, 5000mAh , 26650 rechargeable lithium coin cells
Continuous working period	About 8 hours
Charging time	About 4 hours
Charge lamp,(internal battery)	Having problems in charging : charge lamp , red light flashes once per 0.5 second
	Low battery : charge lamp , green light breathes once per 1 second
	Medium battery : charge lamp , green light breathes once per 2.5 seconds
	High battery : charge lamp , green light breathes once per 4seconds
	Fully charged : charge lamp , there will be always green light
Power lamp,(internal battery)	When power quantity more than 20% : power lamp , there will be always green light
	When power quantity lower than 20% : power lamp , there will be always red light
	When power quantity lower than 5% : power lamp , it will turn off after flashing 10 seconds
Charge Cycle	500 times @50% power
Power-up	Wired : direct-current 5V , power by USB cable
	Wireless: internal battery
	Charge power: DC 5V 2A power plug

Software Environment

USB work mode

Windows system demand	Microsoft®Windows®XP / 7 / 8 /8.1(32 & 64 bit)
	CPU: equal or more than the second generation Intel core 2.8GHz
	Memory: 2G or more
	DVD-ROM（Need it during installing software）

WiFi work mode

Windows system demand	Microsoft®Windows®XP / 7 / 8 /8.1(32 & 64 bit)
	CPU: equal or more than the second generation Intel core 2.8GHz
	Memory: 2G or more
	Internal wireless network card
iOS System Demand	iOS6.0 or higher
Android system demand	Android3.0 or higher
	CPU: dual-core 1.7GHz or higher
	RAM memory：1G or more
	Storage ROM：suggest 8G or larger

Operating Environment

Operating temperature	0℃～40℃
Storage temperature	-20℃～60℃
Operating Humidity	10~60%RH
Storage Humidity	30~80%RH

3、Accessories

39~43mm Jacket　36~40mm Jacket　33~37mm Jacket　30~34mm Jacket

27~31mm Jacket　24~28mm Jacket　20~23mm Jacket

※Locking knob
※Hot shoe interface (no electrical connection)
※Matte Black main body
※Anti-slip rubber mat
※Universal support ball
※Phone holder(support maximum 5.5" screen size phone)

Yuntab

※Micro Port
※A Port
※24AWG 2C 28AWG1P high speed cable USB, Length 1800mm,weight 80g

Cable USB

※Black main body,Weight about48g output current：5V 2000mA

22mm
36mm　58mm
75mm

Adapter

PC Software：
KoPa Capture above Ver6.0
Android software：
KoPa Vision Pro
Operating instruction

KoPa
OSTEC 奥舜创光电
OSTEC OPTO-ELECTRONIC TECHNOLOGY CO.,LTD.

φ80mm
φ80mm

DVD Disk
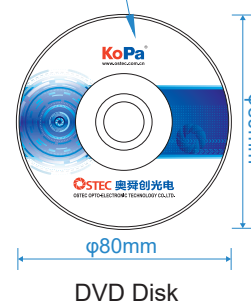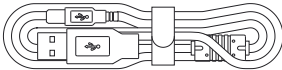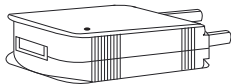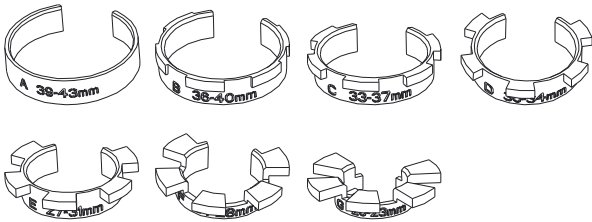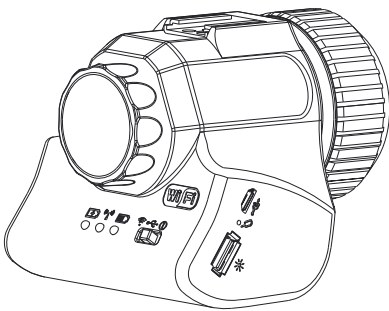
Wireless Software：
KoPa Vision Pro

※ Scan this QR code Sticker to get App for iOS （Paste the sticker to the housing, Link to Apple store）

※Scan this QR code Sticker to get App for Android (Paste the sticker to the housing)

4、Standard Configuration
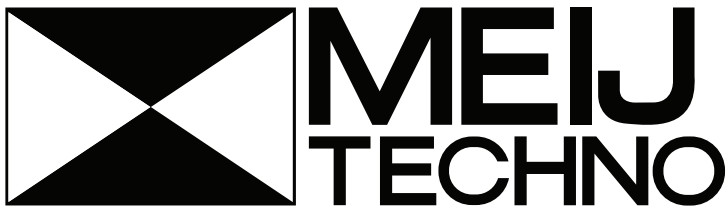
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