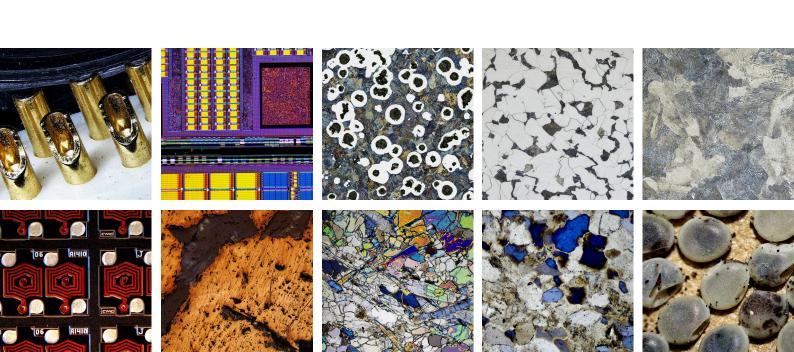


Microscope Camera Solutions For Leica Industrial Microscope

INNOVATED FOR TOP BRAND MICROSCOPES Create a Stunning Microscope Imaging System for You



■ For Trinocular Microscopes







Applicable Models: DM750M,DM1750M, DM2700M,DM4M,DM6M, DM750P,DM2700P,DM4P.



Measuring Camera With 0.43X tube lens



WiFi Camera
With 0.43X tube lens



Smart Camera
With 0.43X tube lens

Option D

Smart Display Camera With 0.43X tube lens









Function Comparison

Standard ○ Optional - N/A

| | Option A | Option B | Option C | Option D |
|-------------------------------|----------|----------|----------|----------|
| Built-in Android OS | _ | _ | • | • |
| Pre-installed Office suits | _ | _ | • | • |
| 15.6"high color gamut monitor | _ | _ | _ | • |
| Image output methods | | | | |
| 5G WiFi | _ | • | • | • |
| USB | • | • | _ | _ |
| HDMI or DP | • HDMI | ● HDMI | ● DP | ● DP |
| Network | • | • | _ | _ |

Option A, B

- HDMI output comes with embedded software: KoPa View;
- Max 60 fps for 3840x2160 (4Kx2K) real-time preview, support snapshot and record video;
- Exclusive image modes for biological, industrial, fluorescence microscope to have accurate color reproduction;
- Option A: USB+HDMI or Network+HDMI output;
 Option B: USB+HDMI or WiFi+HDMI+Network output;
- Support depth of field fusion, stitching function (Windows software -KoPa Capture Pro);
- Support saving photos and videos to USB disk by using mouse and keyboard.

Option C, D

- Comes with a deeply customised Android operating system, with mobile version of office suit that including Word, Excel and PPT;
- Max 30 fps for 3840x2160 (4Kx2K) real-time preview, support snapshot and record video;
- Exclusive image modes for biological, industrial, fluorescence microscope to have accurate color reproduction;
- With depth of field fusion, manual focus, stitching , measurement and other functions;
- Option C: WiF+DP output;
 Option B: local on-screen display or WiFi+DP output;
- Support saving photos and videos to USB-disk by using mouse and keyboard.

■ For Inverted Microscopes



Function Comparison

● Standard ○ Optional − N/A

| | Solution① |
|-------------------------------|-----------|
| Built-in Android OS | • |
| Pre-installed Office suits | • |
| 15.6"high color gamut monitor | • |
| Image output methods | |
| 5G WiFi | • |
| USB | _ |
| HDMI or DP | ● DP |
| Network | _ |

■For Trinocular Stereo Microscopes



Applicable Models: lvestas 3, M125C.

Option A

Measuring Camera With 0.43X tube lens



WiFi Camera With 0.43X tube lens

Option C

Smart Camera With 0.43X tube lens

Option D

Smart Display Camera With 0.43X tube lens









Function Comparison

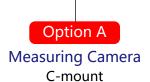
● Standard ○ Optional − N/A

| | Option A | Option B | Option C | Option D |
|-------------------------------|----------|----------|--------------|----------|
| Built-in Android OS | _ | _ | • | • |
| Pre-installed Office suits | _ | _ | • | • |
| 15.6"high color gamut monitor | _ | _ | _ | • |
| Image output methods | | | | |
| 5G WiFi | _ | • | • | • |
| USB | • | • | _ | _ |
| HDMI or DP | ● HDMI | ● HDMI | ● DP | ● DP |
| Network | • | • | - | - |

■ For Binocular Stereo Microscopes



Can be matched with the following models













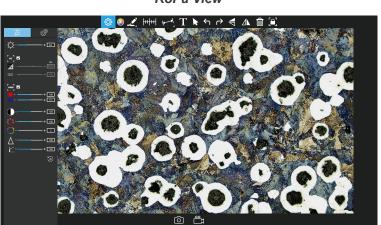
Function Comparison

● Standard ○ Optional − N/A

| | Option A | Option B | Option C |
|-------------------------------|----------|----------|----------|
| Built-in Android OS | _ | _ | • |
| Pre-installed Office suits | _ | _ | • |
| 15.6"high color gamut monitor | _ | _ | _ |
| Image output methods | | | |
| 5G WiFi | _ | • | • |
| USB | • | • | - |
| HDMI or DP | ● HDMI | ● HDMI | ● DP |
| Network | • | • | _ |

KoPa View

>> HDMI output comes with measurement tools (built-in OSD menu -KoPa View); Support saving photos and videos to USB-disk by using mouse and keyboard.



| | Main Functions of KoPa View | | | | |
|-------------------|-----------------------------|---------------|---------------|----|-----------------|
| ₹ <u>Ö</u> } | Settings | Т | Text | | Mirror |
| | Color settings | × | Select object | Û | Delete |
| L | Annotation tools | \leftarrow | Cancel | | Freeze image |
| | Calibration | \rightarrow | Redo | 6 | Snapshot |
| H-H | Measuring tools | | Flip | 00 | Record video |
| | | Camera proper | ty control | | |
| Target brightness | | [AWB] | White Balance | Δ | Acuity |
| [AE] | Automatic exposure | | Contrast | | Gamma |
| + | Exposure time | : 6 | Saturation | | Restore default |
| ISO | Gain | | Chroma | | |

15 measuring tools













measurement







Linear distance

Circular

Rectangular measurement measurement measurement

angle measurement **⊕**



(Ring measurement



measurement

Three-point vertical line measurement



Ellipse angle measurement measurement



Concentric radius circle center distance drawing circle measurement



measurement





Crosses

Annotation tools











Pencil Straight line

Arrow Rectangle

Dedicated image mode

Depending on the application of the microscope, the corresponding exclusive image mode can reproduce the image effect more accurately:

- 1. Biological microscope
- 2. Industrial microscope
- 3. Fluorescence microscope



Industrial microscope



Carbon Steel (objective: 50X)



Grey Cast iron (objective: 50X)



Hypo eutectoid steel (objective: 50X)

Multiple image output modes

Option A: HDMI, USB, USB+HDMI, Network+HDMI Output; Option B: HDMI, USB, WiFi, USB+HDMI, WiFi+HDMI+Network Output (USB and WiFi cannot output at the same time).





HDMI output

Connect the camera to a monitor or large TV via HDMI cable with OSD "KoPa View".





Network output

Connect the computer via network cable by using software" KoPa Capture Pro".





Connect the computer via USB /network cable by using software" KoPa Capture Pro".





5G WiFi output(only option B)

Compatible with various devices and operating systems, including Windows, iOS, and Android. Mobile devices can access the system by scanning a QR code.

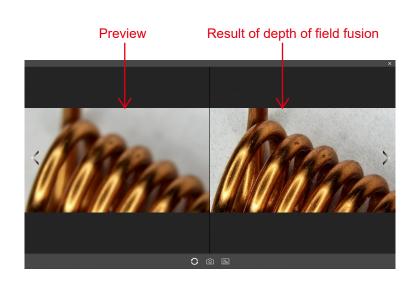
Connects to a computer via a network cable, suitable for wired long distance image transmission.



Depth of Field Fusion

This is achieved through Windows software: KoPa Capture Pro.

Breaking through the limitation of insufficient depth of field under high-magnification objective lens, you can obtain greater depth of field by adjusting the focal length, thus obtaining sharper images than real-time single-frame images, and supporting two saves in one shot.



Specifications

| | Opt | ion A | Opti | on B |
|-------------------------------|--|-----------|---------------|-----------------|
| Applicable microscopes models | DM750M,DM750P Ivestas 3,M125C | | DM750M,DM750P | Ivestas 3,M125C |
| Models | MC2000 | | CF48 | |
| C-mount category | AJ- | C-08 | BJ-0 | C-08 |
| With 0.43X tube lens category | AJ-L-08 | AJ-IA3-08 | BJ-L-08 | BJ-IA3-08 |
| Physical resolution | | 8.3 | BMP | |
| Image sensor | | SONY IMX | K678 CMOS | |
| Sensor size | | 1/ | 1.8" | |
| Pixel size | | 2μm | ×2µm | |
| A/D convertsion bit depth | | 12 | 2bit | |
| Exposure time | 10us~10s | | | |
| Exposure mode | Rolling shutter | | | |
| ISO sensitivity | Equivalent to 100-12800 | | | |
| Spectral response | 400-650nm | | | |
| Exposure capability | Real-time automatic and manual adjustment | | | |
| White balance | Real-time automatic and manual RB adjustment | | | |
| Power supply | DC 5V 2A | | | |
| Video recordings | 3840×2160@60fps | | | |
| Viaco recordings | 1920×1080@60fps | | | |
| HDMI output | 3840×2160@60fps | | | |
| TIDIMI Output | 1920×1080@60fps | | | |
| USB output | 3840×2160@60fps | | | |
| ODD Output | 1920×1080@60fps | | | |
| Network output | | 3840×21 | 60@60fps | |
| receiver output | 1920×1080@60fps | | | |
| Software and App | Windows Software: KoPa Capture Pro, OSD: KoPa View, APP: KoPa WiFi Lab | | | |

Accessories

HDMI cable

USB mouse





Dimensions(Unit:mm)

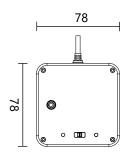
Option A

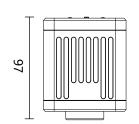
Net weight ≈0.8kg

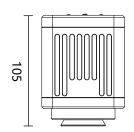
Camera with C-mount

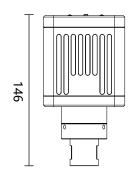
Camera with 0.43X tube lens

Camera with 0.43X tube lens









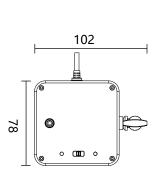
Option B

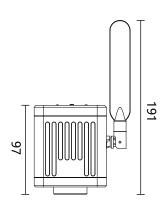
Net weight ≈1kg

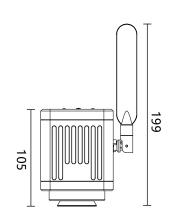
Camera with C-mount

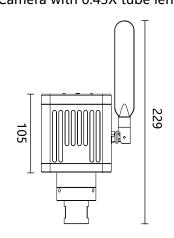
Camera with 0.43X tube lens

Camera with 0.43X tube lens









Built-in software: KoPa WiFi Lab AO

Comes with a deeply customised Android operating system, with mobile version of office suit that including Word, Excel and PPT; support saving photos and videos to USB-disk by using mouse and keyboard.



18 measuring tools



Linear distance measurement



Parallel line spacing

measurement

Three-point vertical line

measurement

Three-point

drawing circle measurement



Manual count



Circular measurement



Center distance measurement parallel lines



Four-point angle measurement



Concentric circle measurement

Crosses

Rectangular



Polyline



Three-point angle measurement







Ellipse measurement



Circle radius

measurement

Concentric radius circle center distance drawing circle measurement

O

Ring measurement

Built-in 32GB hard drive for direct saving of images and videos. Saved images can be copied via WiFi or USB-drive.









Snapshot Screen capture Record

Screen record



File management

Supports the installation of third-party office software, which can directly generate reports containing pictures and measurement results.



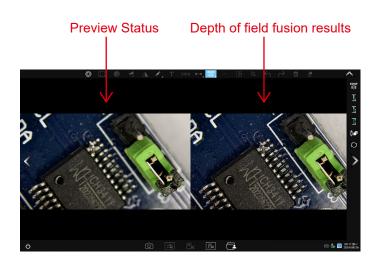




Depth of field fusion

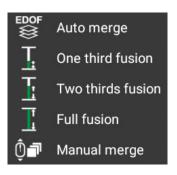
Our innovative camera leverages unique optoelectronic mechanisms and advanced image algorithms to efficiently capture images at various focal planes. This technology enables the timely synthesis of images with optimal focus, ensuring clarity and precision in every shot.

- Suitable for almost all types of microscopes on the market.
- Depth of field range, with a specific microscope, the depth of field fusion can reach max 64mm (object height).
- Fast fusion speeds and precise thresholds greatly enhance the user experience.
- During the depth fusion scanning process, the motor operates quietly and without any vibrations. The durability of the optoelectronic mechanism exceeds 3 million cycles, with each complete scan counting as one cycle.



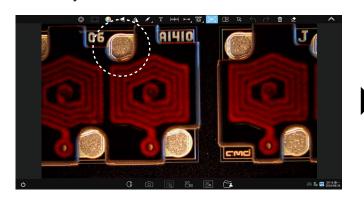
Depth of field fusion travelling can be selected from auto- fusion, 1/3 travelling fusion, 2/3 travelling fusion, full fusion and manual fusion.

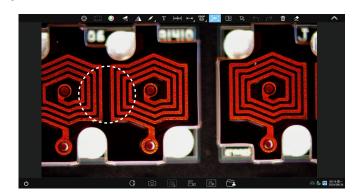
- Auto-fusion is the camera automatically scans, determines the highest and lowest points on the object side, and fuses every clear point of the fallout.
- 1/3 travelling fusion is a forced scan fusion of one third of the camera's physical maximum scan stroke.
- 2/3 traveling fusion is a forced scanning fusion of two thirds of the camera's physical maximum scanning stroke.
- Full fusion is a forced scanning fusion for the physical maximum scanning stroke of the camera.
- Manual fusion is a scanning fusion of the region of interest by controlling the scanning stroke with the mouse wheel.



Manual focus

Manually roll the mouse wheel and click on the area you want to observe to focus on it.

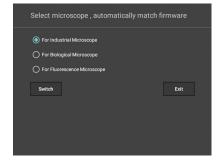




Dedicated image mode

Depending on the application of the microscope, the corresponding exclusive image mode can reproduce the image effect more accurately:

- 1. Biological microscope
- 2. Industrial microscope
- 3. Fluorescence microscope



Industrial microscope



Carbon Steel (objective: 50X)



Grey Cast iron (objective: 50X)



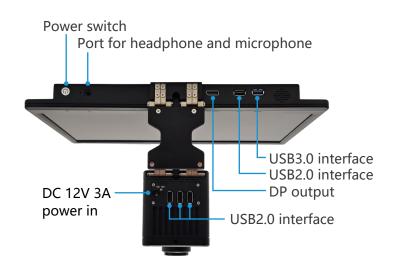
Hypo eutectoid steel (objective: 50X)

Multiple image output modes

Option C: DP, WiFi, WiFi+DP output;

Option D: local on-screen display, DP, WiFi, WiFi+DP output.







5G WiFi output

Compatible with various devices and operating systems, including Windows, iOS, and Android. Mobile devices can access the system by scanning a QR code. connects to PC via WiFi.





DP output

With DP output for display on monitors, Tvs and projectors.







Connecting to the Internet

The camera supports wireless Internet connection (only supports 5G WiFi router signal), by entering the password of any 5G WiFi network, you can directly open the browser to access the Internet. This will allow you to take advantage of online features and functionalities directly from your camera.



Specifications

15.6" high color gamut display

| Number of pixels | 1920(horizontal) x 1080 (vertical) |
|--------------------------|-------------------------------------|
| Pixels arrangement | RGB vertical stripe |
| Colour gamut | 100% (sRGB) |
| Display number of colors | 16.7M(8Bit) |
| Surface treatment | Anti-glare |
| Surface hardness | 3H |
| Viewing angel range | 170 horizontal, 170 vertical |
| Contrast | 800 |
| Brightness | 500cd/m² (average of 5 points) |

| | Opt | ion C | Optio | on D |
|-------------------------------|--|-----------------|-------------------------------|-----------|
| Applicable microscopes models | DM750M,DM750P Ivestas 3,M125C | | DM750M,DM750P Ivestas 3,M125C | |
| Models | TE | 2000 | JX | 200 |
| C-mount category | CJ- | C-08 | DJ-(| C-08 |
| With 0.43X tube lens category | CJ-L-08 | CJ-IA3-08 | DJ-L-08 | DJ-IA3-08 |
| Physical resolution | | 8.3 | BMP | |
| Image sensor | | SONY IMX | (678 CMOS | |
| Sensor size | | 1/ | 1.8'' | |
| Pixel size | | 2µm | ×2µm | |
| A/D convertsion bit depth | | 12 | 2bit | |
| Exposure time | | 10us~10s | | |
| Exposure mode | Rolling shutter | | | |
| ISO sensitivity | Equivalent to 100-12800 | | | |
| Spectral response | 400-650nm | | | |
| Exposure capability | Real-time automatic and manual adjustment | | | |
| White balance | Real-time automatic and manual RB adjustment | | | |
| Power supply | DC 12V 3A | | | |
| Video recordings | 3840×2160@30fps | | | |
| viaco recoranigo | | 1920×1080@30fps | | |
| HDMI output | 3840×2160@30fps | | | |
| 11DWII Gatpat | 1920×1080@30fps | | | |
| USB output | 3840×2160@30fps | | | |
| oss output | 1920×1080@30fps | | | |
| Network output | | 3840×21 | 60@30fps | |
| . Tetrio. R output | 1920×1080@30fps | | | |
| Software and App | Windows Software: KoPa Capture Pro, OSD: KoPa View, APP: KoPa WiFi Lab | | | |

Accessories

DP cable (option C)

Power adapter and power cord (Optional Chinese, American, European, Australian, Korean, British standard etc.)





USB mouse and keyboard

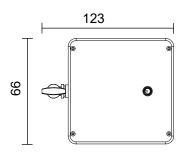




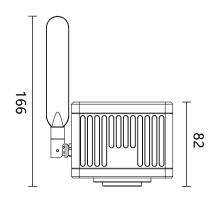
Dimensions(Unit:mm)

Option C

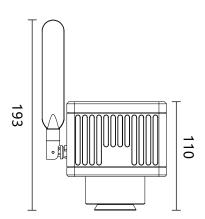
Net weight ≈1.3kg



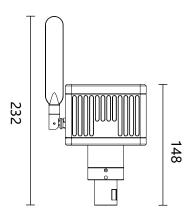
Camera with C-mount



Camera with 0.43X tube lens

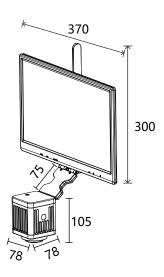


Camera with 0.43X tube lens

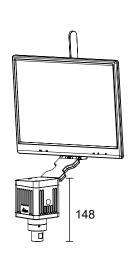


Option D

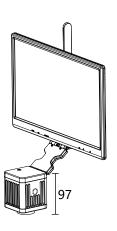
Net weight ≈2kg Camera with 0.43X tube lens



Camera with 0.43X tube lens



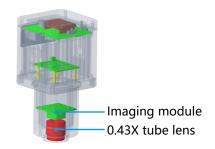
Camera with C-mount



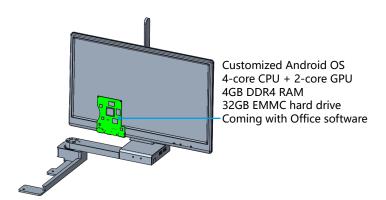




Features & Benefits



 Includes a high-power 0.43X tube lens for a wide field of view.



- Built-in Operating System Android processor RK3399, office suit(Word, Excel, Powerpoint) are preinstalled, no need computer.
- Integrated with 15.6" high-definition ISP display.
- Comes with an imaging app that displays live images upon startup.
- 32GB built-in eMMC with support for external U-disk storage for pictures and videos.
- USB interface allows for easy connection of keyboards and mouse.



Connecting to the Internet

The camera supports wireless Internet connection (only supports 5G WiFi router signal), by entering the password of any 5G WiFi network, you can directly open the browser to access the Internet. This will allow you to take advantage of online features and functionalities directly from your camera.





5G WiFi output

Compatible with various devices and operating systems, including Windows, iOS, and Android. Mobile devices can access the system by scanning a QR code. connects to PC via WiFi.





DP output

With DP output for display on monitors, Tvs and projectors.









| 1 | Network output interface | Connected to the screen via a network cable, the image is captured via software |
|-----|--------------------------|---|
| 2 | USB Power Input | Powering the camera by connecting to the USB port |
| 3 | 5G WiFi antenna | 5G WiFi signal transmission to connect the camera to capture images or control the camera |
| 4 | Network output interface | Connected to the screen via a network cable, the image is captured via software |
| (5) | USB 2.0 interface | Can power the camera (output voltage 5V, maximum output current 2A) |
| 6 | Power Input | DC 12V 3A |
| 7 | USB 3.0 interface | Can be connected to a mouse, keyboard, USB flash drive (for copying videos |
| 8 | USB 2.0 interface | and images) |
| 9 | DP output interface | Through the DP cable, connect with the display device and transmit |

| 100 | USB 2.0 interface | Can be connected to a mouse, keyboard, USB flash drive (for copying videos and images) |
|-----|--------------------------------|--|
| 11) | Headphone and microphone ports | Connect with headset cable for audio output |
| 12 | Power switch | Switch on/off |

Specifications

15.6" high color gamut display

| 1920(horizontal) x 1080 (vertical) |
|-------------------------------------|
| RGB vertical stripe |
| 100% (sRGB) |
| 16.7M(8Bit) |
| Anti-glare |
| 3H |
| 170 horizontal, 170 vertical |
| 800 |
| 500cd/m² (average of 5 points) |
| |

| Name | Smart Display Camera | | |
|---------------------------|---|--|--|
| Models | YY48 | | |
| Category | SD-iLM-08 | | |
| Physical resolution | 8.3MP | | |
| Image sensor | SONY IMX678 CMOS | | |
| Exposure mode | Rolling Shutter | | |
| Maximum resolution | 3840×2160 (8,294,400Pixels) | | |
| ISO sensitivity | Equivalent to 100-12800 | | |
| Sensor size | 1/1.8" | | |
| Pixel size | 2μm×2μm | | |
| Spectral response | 400-650nm | | |
| Exposure capability | Real-time auto and manual adjustment | | |
| Exposure time | 10μs-10s | | |
| White balance | Real-time auto and manual RB adjustment | | |
| Preview resolution | 3840×2160@30fps | | |
| Power supply | DC 12V 3A | | |
| Wireless protocol | 5G WiFi IEEE802.11ac | | |
| A/D convertsion bit depth | 12bit | | |
| Tube lens | 0.43X | | |
| Software and App | Windows Software:KoPa Capture Pro,Embedded software:KoPa WiFi Lab AO, App:KoPa WiFi Lab | | |

Accessories

Power adapter and power cord (Optional Chinese, American, European, Australian, Korean, British standard etc.)





USB mouse and keyboard



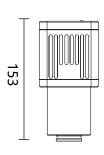


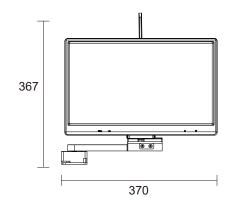
Gigabit Ethernet cable

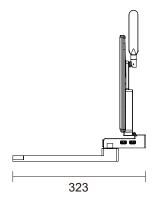


Dimensions(Unit:mm)

Net weight ≈2.6kg











Features

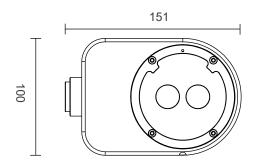


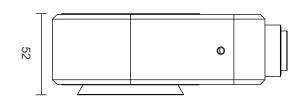
- Features a 50:50 light-splitting design that preserves the original optical system.
- Professional NPBS beam splitter prism to ensure true color reproduction.
- Includes a high-power 0.43X tube lens for a wide field of view.

Model

| Applicable to | Leica |
|---------------|---------|
| Model | PA043LT |

Dimensions(Unit:mm)





Certifications

- 1. Comply with FCC certification of The US Federal Communication Commission.
- 2. Comply with European (standard) safety CE certification.
- 3. Comply with the MIC certification issued by the Ministry of Internal Affairs and Communications of Japan (Electric Wave Method and Electro-Optical Communication Business Law).
- 4. Comply with JATE certification of Japanese telecommunications law directive.
- 5. Comply with the "Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment" (RoHS) Directives in accordance with EU legislation.

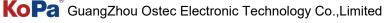
| Evaluation object | Certification | Certificate File Name & Report | Certificate number & corresponding report number | |
|---|-----------------------------|--|--|--|
| Certification EU CE report Japanese MIC Certifica | US FCC Report | SZEM180100024801-5G wifi RPT-WF01A FCC Report | SZEM180100024801 | |
| | | SZEM180100024802-RT-WF01A FCC Report | SZEM180100024802 | |
| | | Appendix A-Photographs of EUT Constructional Details | | |
| | | for SZEM1801000248CR-FCC | SZEM1801000248CR | |
| | US FCC ID Certification | 2AFO3WF01A_NII-WF01A FCC ID | 2AFO3WF01A | |
| | EU CE report | SZEM180100024901 EN301489 RPT-WF01A CE Report | SZEM180100024901 | |
| | | SZEM180100024902 WIFI5G RPT-WF01A CE Report | SZEM180100024902 | |
| | Japanese MIC Certification | CSRT180084-WF01A Japanese MIC Certification | CSRT180084 | |
| | Japanese JATE Certification | CSTT180018-WF01A Japanese JATE Certification | CSTT180018 | |

Patented

| Patent category | Patent name | Patent number |
|-----------------------|---|---------------------|
| | Electronic eyepiece | ZL 2015 3 0193227.8 |
| Design patent | Wireless electronic eyepiece | ZL 2015 3 0193223.X |
| | Electronic eyepiece with spectroscopic system | ZL 2019 3 0331144.9 |
| | Microscope (with splitting prism camera) | ZL 2019 3 0717439.X |
| | Microscope with camera | ZL 2019 3 0717442.1 |
| Utility model patents | WiFi microscope eyepiece | ZL 2015 2 0296469.4 |
| | Electronic eyepiece | ZL 2015 2 0426409.X |
| | Wireless electronic eyepiece | ZL 2015 2 0426313.3 |
| | Microscope with displayer | ZL 2019 2 0928962.1 |
| | Electronic eyepiece with splitting prism system | ZL 2019 2 1022863.3 |

Software copyright

| Category | Name of software | Platform | License number |
|--|------------------|----------|----------------|
| Computer software copyright registration certificate | KoPa Capture Pro | Windows | 2021SR1287730 |
| | KoPa WiFi Lab AO | Android | 2021SR1304520 |
| | KoPa WiFi Lab | Android | 2019SR0117768 |
| | | iOS | 2019SR0028558 |
| | KoPa View | Linux | 2024SR1617066 |



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The content of this leaflet has been reviewed by our company at the time of its release. Due to technological development, the actual product is subject to change without notice.

The names of other companies, product names, and trademarks **OLYMPUS Nikon Lice E (III) (III) (III) (IIII) (IIIII) (IIII) (IIII) (IIII) (IIII) (IIII) (IIII) (IIII**

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