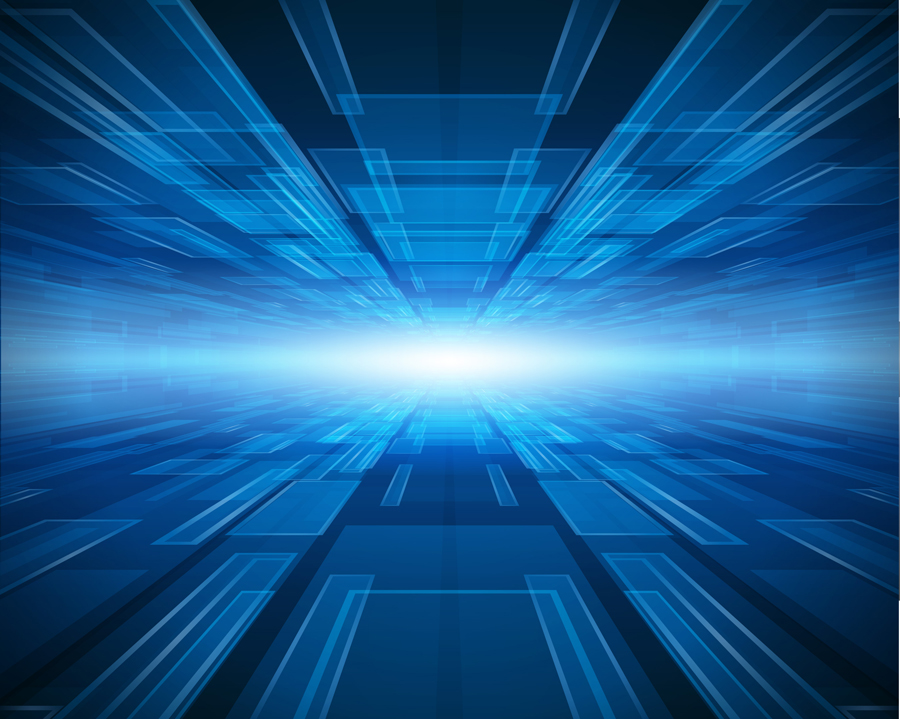


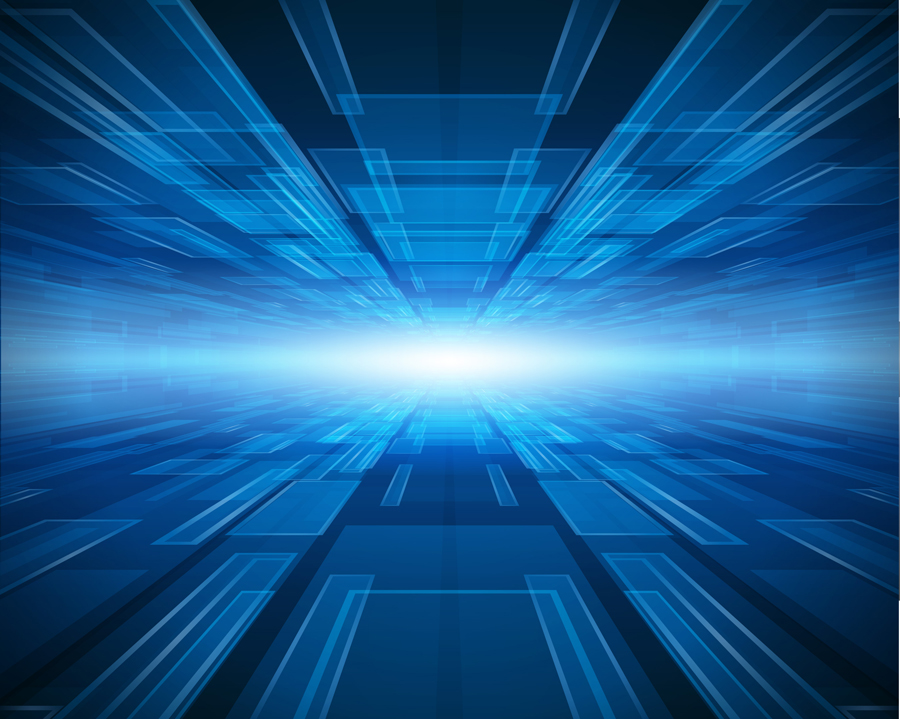
**JEET F SERIES**

F Series

**3D MEASUREMENT VIDEOSCOPE**



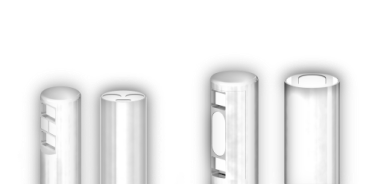




**F pro 3D Measurement Videoscope**



3D measurement function is a major difficulty in the endoscope industry. Whether the process selection of product appearance materials or the research to the design of software measurement algorithms, JEET R&D team made a large number of feasibility studies and simulation tests.



**3.9mm** 0°/90° camera

**6.0mm** 0°/90° camera

**Measurement function**

point-to-point/point-to-line/point to surface depth/ multiple point circumference measurement，**measurement accuracy ≥ 95%**

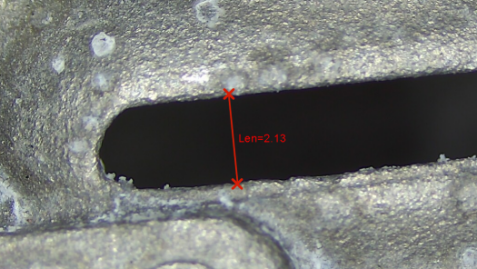
measurement modes



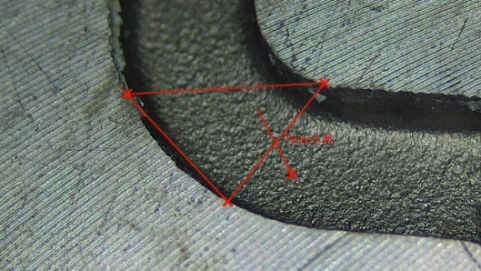
measurement data displays in list

zoom in/out

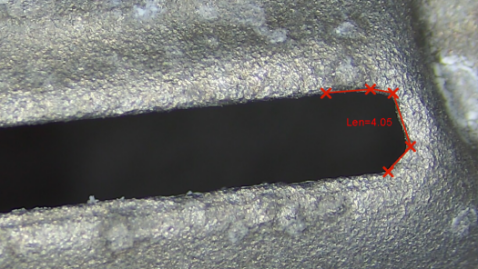
note text, mark, free drawing



**distance between two points**



**point -to -plane depth**



**multiple point circumference**

**intelligent operating system, accurate measurement results**

**Vertical depth nephogram**

**3D physical cloud image**

**High precision and fast global**

**scanning 3D cloud image**

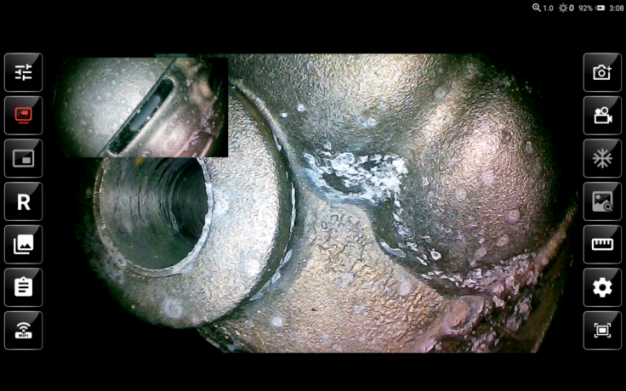
* Fast global scanning to view 3D physical cloud image
* Vertical depth cloud map, automatic measurement of maximum depth
* 3D cloud image XYZ coordinate display, arbitrary section view, easy to locate the depth and height difference of internal defects
* the datum plane shifts and the depth value changes in real time

**Profile**

**Cloud 3D coordinates**

Intelligent Software



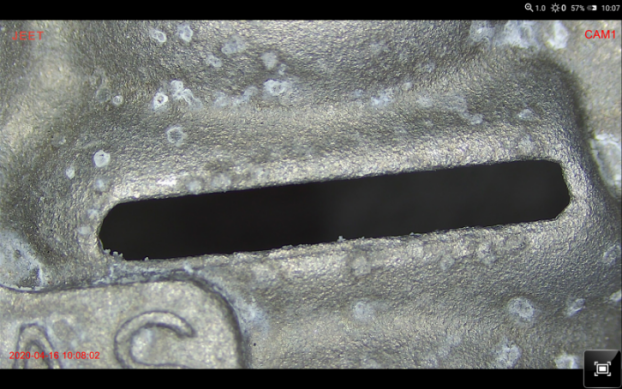
****

**Picture in Picture**

static/dynamic image comparison software

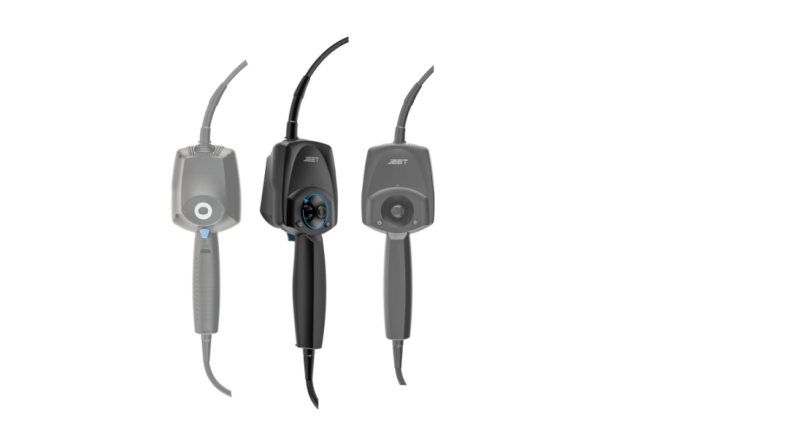


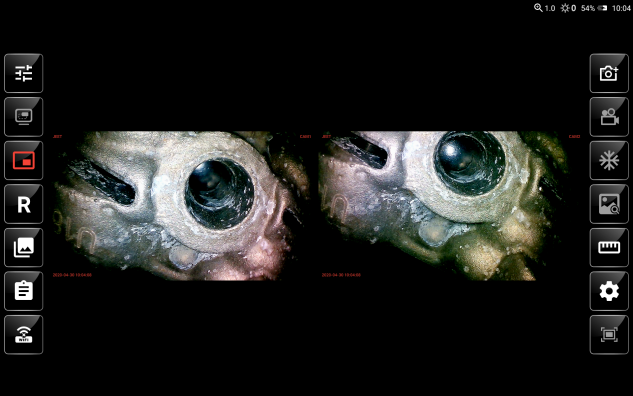
**1920\*1200 Super HD image, full screen**

****

**Full screen mode**

**Smart inspection**



****

**Dual-camera image**

****

**Intelligent operation system**

**Image adjustment:** resolution options

**Camera parameters setting:** brightness/ contrast/ gamma/ ray/ saturation/sharpness

**Image effects:** auto balance/ negative film/mirror image or rotation/image freezing

**Note text:** annotation/free drawing/mark

**Picture annotation, free drawing**

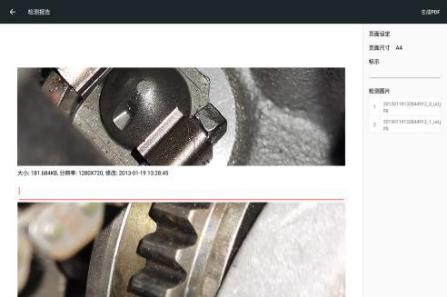


**②text note or mark and ；confirm after operation to save the file.**

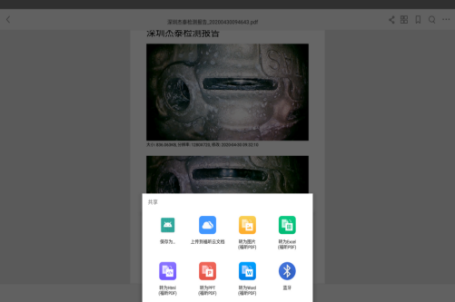


**① select pictures or freeze the image ; select “free drawing”icon.**

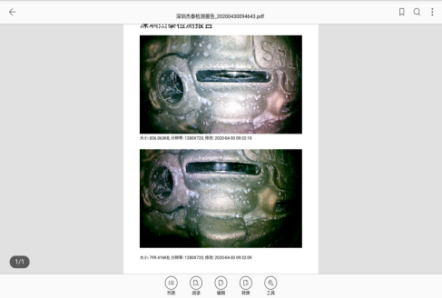
**MDI report generation**



select pictures and editing the report

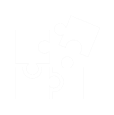


Treport sent to the mobile phone via bluetooth



generate report in PDF file

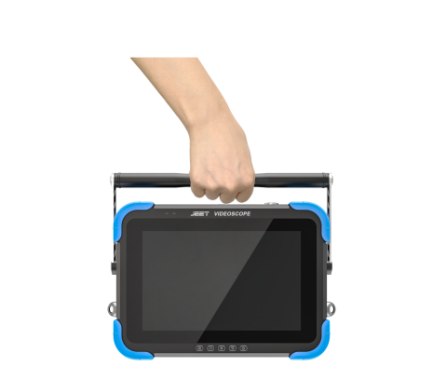
Portable design



practical strap



buckle to fix monitor and handle

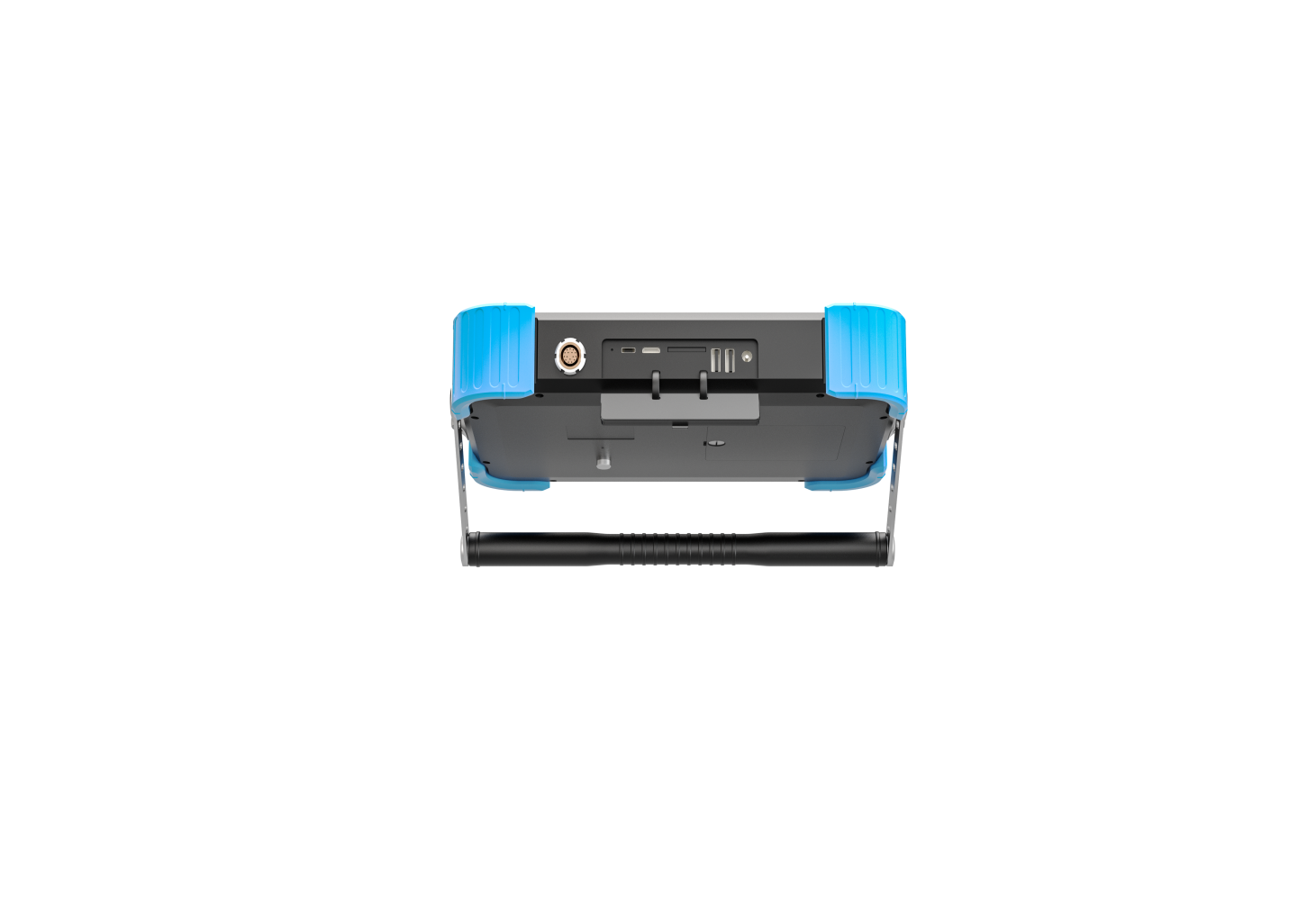


adjustable bracket









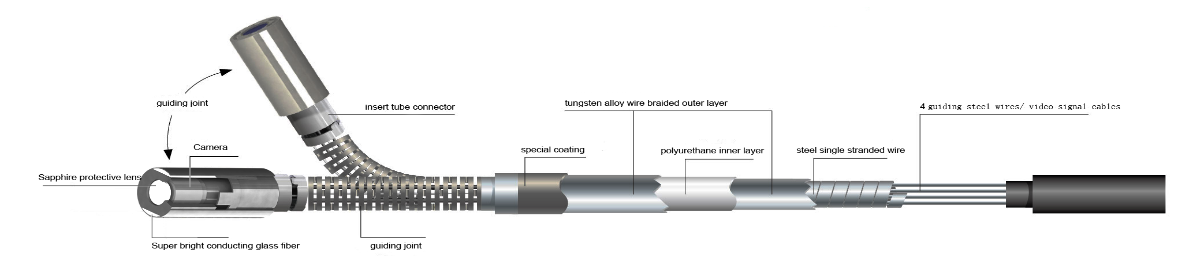
◉ HDMI image output, synchronous image display

◉ 3.0/2.0 dual USB port

◉ 32G SD card，support 128G card at maximum

Tube system









**360° articulation**

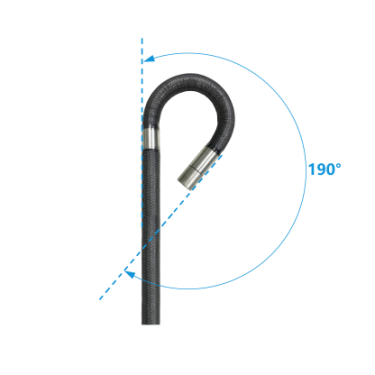
super bright ceramic light



**illuminance**

**Wear resistant tube**

5 layers of tungsten- braided tube; Wear resistance: 20 times better than ordinary probe



**maximum bending angle:190°**

**Parameters**

|  |  |
| --- | --- |
| **Monitor System** | |
| Monitor size | 300×220×59mm |
| Monitor weight | 1.9KG |
| Monitor material | magnesium aluminum alloy |
| Display resolution | 1920×1200 |
| Joystick handle size | 235×90×70mm |
| Joystick handle weight | 0.4KG |
| Articulation | 360° |
| Bending angle | ≤150° |
| Storage | Internal memory/SD card/U disk（optional） |
| I/O port | Micro USB×2;mini HDMI×1;SD slot×1;Air plug×1 |
| Video output | HDMI |
| Light source | Real cold light source+fiber |
| Brightness level | 5X |
| Illumination | Max 100000LX |
| White balance | Automatic |
| Battery capacity | 3000mA/3.7V ×4 |
| Battery charging | 12V，1A |
| Power | 10W |
| Battery work time | 2.5h |
| DC mode | Support charging while use |
| **Software** | |
| Operation system | Real-time intelligent multitasking operating system |
| User interface | Button+touch screen |
| File management | Intelligent file management system, support to the memory and SD card, USB storage media files and folders for the following operations: copy, cut, rename, delete, and so on |
| Image adjustment | Image adjustment: resolution options  Camera parameters setting: brightness/ contrast/ gamma/ ray/ saturation/sharpness  Image effects: auto balance/ negative film/mirror image or rotation/image freezing  Note text: annotation/free drawing/mark |
| Image zoom in/out | 8X |
| Image format | JPG |
| Video format | MP4 |
| Text annotation | Photo text overlay, can choose the font size of the annotation text |
| Image annotation | Seal (default/custom), doodle, text input |
| Software upgrade | On-site upgrades are available via SD card and USB storage media |
| Language | English / French / German / Spanish / Japanese / Traditional Chinese / Simplified Chinese / Russian / Korean |
| Utility software | MDI report generation software  Dual video input switching software  (it shall be equipped with the direct side view switching pipeline)  Picture in picture comparison software  3D measurement software |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tube System** | | | | | | | |
| **Probe Diameter (mm)** | **Camera Pixels** | **Tube Length** | **View** | **DOF** | **FOV** | **Light Source** | **Articulation** |
| **8.0mm/**  **6.0mm** | 1mega pixels | 1m~10m | front | 10-100mm | 120° | LED/optic fiber | 360°all-way |
| side | 3-25mm/10-110mm | 90°/120° | LED | 360°all-way |
| 1mega pixels | ≤ 3m | 3D measurement | 10-100mm | 120° | optic fiber | 360°all-way  360°all-way |
| **3.8mm** | 1mega pixels | 1m~10m | front | 10-100mm | 120° | LED/fiber | 360°all-way |
| side | 3-25mm/10-110mm | 90° | LED | 360°all-way |
| 300,000pixels | ≤ 3m | 3D measurement | 5-50mm | 120° | optic fiber | 360°all-way  360°all-way |
| **2.8mm** | 300,000pixel | 1m~3m | front | 5-50mm | 120° | LED/optic fiber | 360°all-way |
| side | 5-50mm | 120° | LED | 360°all-way |
| **2.2mm** | 300,000pixel | 1m~3m | front | 5-50mm | 120° | LED/optic fiber | 360°,two-way |
| **1.8mm** | 300,000pixel | 1m | front | 5-50mm | 120° | LED/optic fiber | two-way |
| **1.0mm** | 40000pixel | 1m | front | 5-50mm | 120° | LED/optic fiber | no direction |

|  |  |
| --- | --- |
| **Measurement function** | |
| Point to point distance | Measure the distance between two points |
| Point to line distance | Measure the distance from the point to the line |
| Point to surface depth | Measure the distance from the point to the surface |
| Multi-segment line length | Measure the total length of multiple continuous lines |
| Closed segment length | Measure the length of multiple closed continuous lines |
| Line to surface depth | Measure the depth of the line to the specified surface |
| Area | Measure the area of a closed polygon（pending） |
| Partial magnifying window assist function | 3X |
| picture can be measured times | Multiple measurements can be made continuously |
| Measuring list | Multiple measurements can be tabulated |
| Standard precision value | 0.1mm |
| Minimum precision value | 0.01mm |
| Accuracy | ≈95% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model Function** | | |  | |  |
| **Model**  **Function** |  | **FC** | | **FS** | **FP** |
| **Photo** | JPG | √ | | √ | √ |
| **Video** | MP4 | √ | | √ | √ |
| **Zoom** | 8X MAX | √ | | √ | √ |
| **Illuminance** | MAX 70,000Lx | √ | | √ | √ |
| **Display scale adjustment** | Image 1:1/full screen | √ | | √ | √ |
| **Image effects** | Negative film, standard | √ | | √ | √ |
| **Image freezing** | Freeze photo,check, mark and save | √ | | √ | √ |
| **Image rotation, mirroring** | 0°, 90°,180°, 270° mirror | √ | | √ | √ |
| **Intelligent file management** | Be able to copy, cut, rename, and delete files have been saved | √ | | √ | √ |
| **Two photos comparison** | Select photo from document, and compare the two photos on one screen | √ | | √ | √ |
| **Review** | Thumbnail review, file name display directly | √ | | √ | √ |
| **Picture annotation，free drawing** | File mark, image mark, add logo, free drawing, file output | √ | | √ | √ |
| **Picture in Picture** | Switch between main screen image and small window photo | √ | | √ | √ |
| **Front view and side view on one screen** | Front view and side view preview on one screen | × | | √ | × |
| **Dual-camera image** | Two images dynamic real-time display on one screen | × | | √ | √ |
| **MDI Generate report** | Select photo,free draw the photo，edit words under the photo，write the title of the file，create detection report,transfer the report via Blue-teeth | × | | √ | √ |
| **3D measurement** | Point to point,point to surface,point to surface depth/ multiple point circumference measurement,partial zoom window function（3 times calibration）,measurement data list | × | | × | √ |