Mitcorp

X3000 3D Measurement Industrial Videoscope

The world's first dual view 3D measurement videoscope



Application Fields

X3000 system is designed for inspecting remote reach areas across various industries, including aerospace, automotive, power generation, oil and gas, and machinery equipment. It enables visual inspection of critical components such as turbine blades, pipes, welds, and







Mitcorp's Patent 3D Technology

Active Stereo Technology

Active stereo technology offers an innovative alternative to the traditional dual-camera approach. In an active stereo vision system, one of the cameras is replaced with a projector unit that sequentially projects structured light onto the object of interest. Mitcorp's patented technology integrates two sets of cameras and a projector at the probe tip, enabling both front and side-view imaging. The advanced 3D geometry algorithm has been finely developed to generate reconstructed images for various inspection applications.



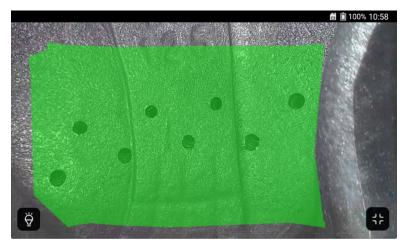
Patented Dual-View Cameras Measurement

The innovative dual-lens design allows you to capture multiple viewing angles without changing probes.

The front camera provides deep inspection, while the side camera offers lateral observation.

Fast & Easy Measurement Data Capture

In simple 3 steps, you can generate a detailed 3D reconstruction without any complex setup or tedious procedures. Simply capture and process in less than 10 seconds.



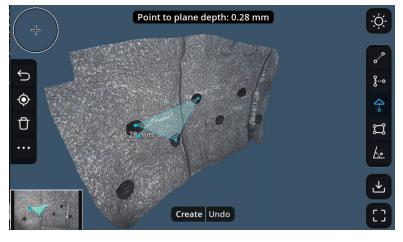
Exceptional Image Quality

Comprehensive image adjustments:

Brightness, Saturation, Contrast, White-balance, and Negative mode. 3D reconstruction quality comparable to 2D imaging, ensuring high-detail visualization.

Super Wide 3D Measurment Range

Mitcorp's Active Stereo technology is powerful to 3D reconstruct up to 80% of the snapshot image. Which accelerates the inspection overall time and shorten engine down-time.



High-Definition 3D Reconstruction

High-resolution 3D reconstruction technology, making it easier and more precise than ever to select measurement points. You can inspect details from multiple angles, ensuring every measurement is accurate and reliable.

3D Measurement Functions & Annotation

Supports various measurement modes:











Length Point to Line

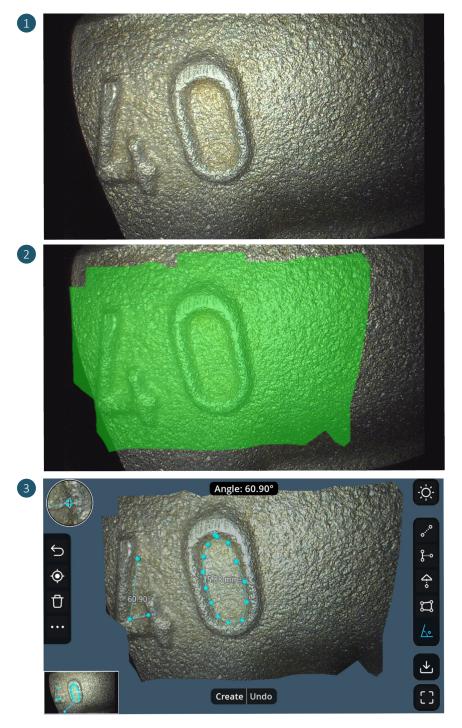
- 3 -

Stable, Fast & Easy

The X3000 system offers instant measurement data capture without the need for static waiting time, ensuring rapid and accurate analysis. It features superior image clarity, a rear-mounted fiber optic LED for stable, high-intensity illumination, and a rugged, all-weather chassis designed for demanding environments. With its world's first dual-camera, dual-measurement design, users gain instant access to multiple measurement modes for enhanced flexibility. A full-screen full-size 3D model display, coupled with intuitive 3D point selection, simplifies complex measurements. The system constructs a detailed 3D model in just 10 seconds, streamlining the analysis process, while its user-friendly interface ensures effortless operation.

Snap, Reconstruct & Measure in 10 Seconds.

In simple 3 steps, you can generate a detailed 3D reconstruction without any complex setup or tedious procedures. Simply capture and process in less than 10 seconds.



3D Measurement Functions

Multiple measurement on demand in one picture with initiative user interface



Length

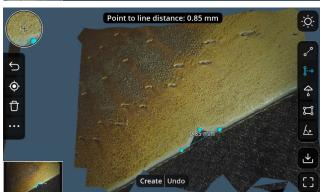
Measures the distance between two selected points. It helps inspectors determine the length of defects such as cracks, scratches, or weld discontinuities.





Point to Line

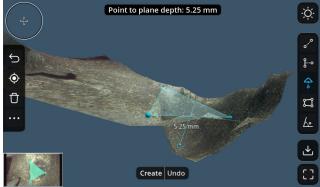
Measures the distance from a specific point to a reference line. This function is useful for evaluating the relative position of defects such as cracks or pits in relation to structural features.





Depth

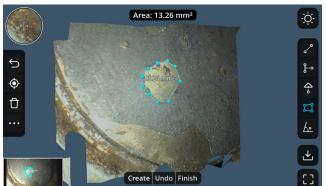
Measures the height difference between a selected point and a reference plane defined by three base points. This function is essential for assessing corrosion, pitting, and material wear in critical components.





Δrea

Measures the surface area of a selected region. It helps inspectors evaluate the extent of defects like corrosion spots, delamination, or coating failures.

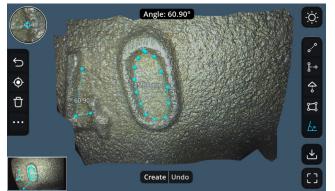




Protractor

Measures the angle between two intersecting lines.

This function assists in assessing misalignment,
bending, or deformation of structural
components.

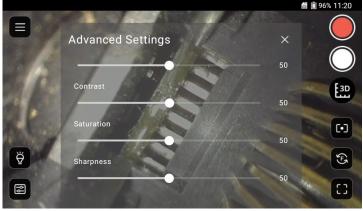


Advanced Set-up Functions



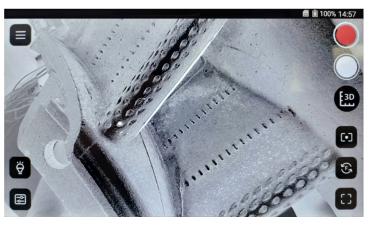
Wide Dynamic Range

WDR(Wide Dynamic Range) technology for better image quality in bright / dark complex environment.



Manual Color Set-up

Sharpness / Saturation / White balance... various image fine tune parameters.



Negative Image

The negative image function is super useful of identifying tiny scratch, crack on reflective surface.



Compare Image

To compare the live view to a saved image by separated window for damage status reference.

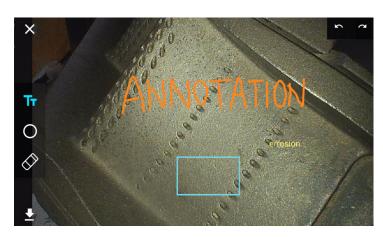


Photo Annotation

Provides various pen types: Brush/Line/Oval/Rectangle to put annotation on saved images.



Advanced File Management

Built image storage folder & user defined storage filename sequences to meet inspection project jobs.

Versatile Features



Versatile Features



New Hand-grip design for a stay-still operation



Accessories



- 2 Rigid Sleeve Set
 - 450 mm in Length the Rigid Sleeve available for 6 mm and 3.9 mm probes
 - The sleeve option comes corresponding to the ordered probe



• Hand carry and lightweight carry case

 Rigid & Drop-proof, fully protecting the videoscope system with smart probe cable managment



- 3 Swappable Battery
 - 520g in weight
 - Charging from zero to full in less than 5 hours
 - Typical 3 hours operation
 - LED light indicators



4 USB Type-C Power Adapter

Output 45W,3A



Calibration Block

For re-calibration of the 3D measurment probe



6 SD Card

64GB Micro SD Card + SD Card adapter



7 Neck Strap



8 HDMI cable



9 Type-C cable



Cleaning set



Optional

11 Centering Device

Three sizes of centering device included.



X3000 videoscope dimensions



Specifications

| Dimension | X3000 Base Unit / Monitor | | |
|--|------------------------------|---|--|
| Water proof Display above 7" LCD monitor with full touch panel Power button Micro SD memory card slot I / O Port Bis Type-C (data transmission) Mini-HDMI (AV Output) Reset button (pin push) Display Extension I HDMI (JSB-C to +7" monitor Tip Temperature warning Low / Middle / High warning on screen display Power indicator O "100% indicator on screen display Microphone Built-in (on / off switch by setting menu) Memory media External Micro-SD card. Up to 128 GB System languages 30 languages with user interface context Battery Dimension L125 W:114 H:58 (mm) Weight SD g Charging time 4,7-4,33hrs (2.5A-3A) "Power adaptor: output 45W, 3A Discharging time 4,7-4,33hrs (2.5A-3A) "Power adaptor: output 45W, 3A Discharging time Poyerating Temperature Tip Operating Temperature Tip Operating Temperature O'C"-60"C with AC adapter Tip Operating Temperature O'C"-60"C Battery Charging Temperature O'C"-60"C Battery Charging Temperature O'C"-60"C Battery Charging Temperature High contrast film effect Rotation O'S-85 C degree totation of the image Rotation Possible Present in the file of the wild image Annotation Total and hand draw remarks on saved image (English letters and symbols) Image Adjustment Sharpness / Contrast Statustion / White Balance File Management Functions Watermark File Management Functions Andread APP. Grid Velley Liv Liver / File filter. Create / doit folder Editable press to great on still images (English letters and symbols) Image Adjustment Sharpness / Contrast Statustion / White Balance File Management Functions HDMI (Jdb (AV-out) J. 5 m, HDMI 1.4a, 179E A to TYPE D (Micro HDMI) USB cable (data transfer) In T, TYPE C to TYPE A Artight rolley case Micro SD card Artight trolley case Battery D Coupurt 2, 3V, 98000mAh*1 sets Detachable hand grip ("1 pcs); 45 cm stainless steel extension poles ("2 pcs) | Dimension | L:355 W:216 H:214 (mm) | |
| Water proof Display above 7" LCD monitor with full touch panel Power button Micro SD memory card slot I / O Port Bis Type-C (data transmission) Mini-HDMI (AV Output) Reset button (pin push) Display Extension I HDMI (JSB-C to +7" monitor Tip Temperature warning Low / Middle / High warning on screen display Power indicator O "100% indicator on screen display Microphone Built-in (on / off switch by setting menu) Memory media External Micro-SD card. Up to 128 GB System languages 30 languages with user interface context Battery Dimension L125 W:114 H:58 (mm) Weight SD g Charging time 4,7-4,33hrs (2.5A-3A) "Power adaptor: output 45W, 3A Discharging time 4,7-4,33hrs (2.5A-3A) "Power adaptor: output 45W, 3A Discharging time Poyerating Temperature Tip Operating Temperature Tip Operating Temperature O'C"-60"C with AC adapter Tip Operating Temperature O'C"-60"C Battery Charging Temperature O'C"-60"C Battery Charging Temperature O'C"-60"C Battery Charging Temperature High contrast film effect Rotation O'S-85 C degree totation of the image Rotation Possible Present in the file of the wild image Annotation Total and hand draw remarks on saved image (English letters and symbols) Image Adjustment Sharpness / Contrast Statustion / White Balance File Management Functions Watermark File Management Functions Andread APP. Grid Velley Liv Liver / File filter. Create / doit folder Editable press to great on still images (English letters and symbols) Image Adjustment Sharpness / Contrast Statustion / White Balance File Management Functions HDMI (Jdb (AV-out) J. 5 m, HDMI 1.4a, 179E A to TYPE D (Micro HDMI) USB cable (data transfer) In T, TYPE C to TYPE A Artight rolley case Micro SD card Artight trolley case Battery D Coupurt 2, 3V, 98000mAh*1 sets Detachable hand grip ("1 pcs); 45 cm stainless steel extension poles ("2 pcs) | Weight | 2200 g | |
| Power button Micro SD memory card slot | water proof | IP 54 | |
| Micro SD memory card slot USB Type-C (data transmission) Mini-HDMI (AV Output) Reset button (pin push) | Display | above 7" LCD monitor with full touch panel | |
| USB Type-C (data transmission) Mini-HDMI (AV Output) Reset button (pin push) Display Extension HDMI/ USB-C to +7" monitor Tip Temperature warning Low/ Middle/ High warning on screen display Microphone Built-in (on / off switch by setting menu) Memory media External Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System languages Statem Micro-SD card. Up to 128 GB System Operation Statem Micro-SD | | Power button | |
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| Display Extension HDMI/USB-C to +7" monitor Tip Temperature warning Low/Middle/High warning on screen display Power indicator 0°100% indicator on screen display Microphone Built-in (on/off switch by setting menu) Memory media External Micro-SD card. Up to 128 GB System languages 30 languages with user interface context Battery Dimension L:125 W:114 H:58 (mm) Weight 520 G Charging time 4,7-4.33hrs (2.5A-3A) "Power adaptor: output 45W, 3A Discharging time 4,7-4.33hrs (2.5A-3A) "Power adaptor: output 45W, 3A Discharging time Topical 6 hours operation LED Indicators Red: charging/Green: full charged/Flashing: Abnormal Operating Temperature 2-00°C-40°C in air 10-30°C in water Tip Operating Temperature 2-00°C-40°C in air 10-30°C in water Storage Temperature 0°C-60°C Battery Charging Temperature 0°C-60°C Battery Charging Temperature 1-10°C-100°C in air 10-30°C in water Software merge 3 pictures in 1 Negative High contrast film effect Rotation 90-180-270 degree rotation of the image Compare Select any saved image to compare with live view image Annotation Text and hand draw remarks on saved image (English letters and symbols) Watermark Fixed Mitcorp watermark on image Editable preset tag text on still images (English letters and symbols) Tanga Adjustment Sharpness/Contrast/Saturation/White Balance File Management Functions Gallery playback Android based APP Grid view / List view / File filter. Feate / edit folder Editable preset to saving images Create / edit filename Editable preset to rs saving images Create / edit filename Editable preset to rs saving images Package / Accessories HDMI cable (AV-out) 1.5 m, HDMI 2.4 a, PYPE A to TYPE D (Micro HDMI) USB cable (data transfer) 1 m, TYPE C to TYPE A Carry Case Airtight trolley case Micro SD card Micro SD card Micro SD card Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | | Mini-HDMI (AV Output) | |
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| Image functions | | | |
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| WDR (Wide Dynamic Range) Software merge 3 pictures in 1 Negative High contrast film effect Rotation 90-180-270 degree rotation of the image Compare Select any saved image to compare with live view image Annotation Text and hand draw remarks on saved image (English letters and symbols) Watermark Fixed Mitcorp watermark on image Editable preset tag text on still images (English letters and symbols) Image Adjustment Sharpness/Contrast/Saturation/White Balance File Management Functions Gallery playback Android based APP. Grid view/List view/File filter. Create / edit folder Editable preset for saving images Create / edit filename Editable prefix text for saving images Package / Accessories HDMI cable (AV-out) 1.5 m, HDMI 1.4a,TYPE A to TYPE D (Micro HDMI) USB cable (data transfer) 1 m, TYPE C to TYPE A Carry case Airtight trolley case Micro SD card Maximum 128G Battery DC output 7.8V, 9800mAh*1 sets DC power adapter Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | Battery Charging Temperature | | |
| Negative High contrast film effect Rotation 90-180-270 degree rotation of the image Compare Select any saved image to compare with live view image Annotation Text and hand draw remarks on saved image (English letters and symbols) Watermark Fixed Mitcorp watermark on image Tag Editable preset tag text on still images (English letters and symbols) Image Adjustment Sharpness/Contrast/Saturation/White Balance File Management Functions Gallery playback Android based APP. Grid view/List view/File filter. Create / edit folder Editable preset for saving images Create / edit filename Editable prefix text for saving images Package / Accessories HDMI cable (AV-out) 1.5 m, HDMI 1.4a,TYPE A to TYPE D (Micro HDMI) USB cable (data transfer) 1 m, TYPE C to TYPE A Carry case Airtight trolley case Micro SD card Maximum 128G Battery DC output 7.8V, 9800mAh*1 sets DC power adapter USB PD 45W with Cable Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | WDD (WL) D | | |
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| Create / edit folder Editable preset for saving images Package / Accessories HDMI cable (AV-out) 1.5 m, HDMI 1.4a,TYPE A to TYPE D (Micro HDMI) USB cable (data transfer) 1 m, TYPE C to TYPE A Carry case Airtight trolley case Micro SD card Maximum 128G Battery DC output 7.8V, 9800mAh*1 sets DC power adapter Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | | File Management Functions | |
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| Carry case Airtight trolley case Micro SD card Maximum 128G Battery DC output 7.8V, 9800mAh*1 sets DC power adapter USB PD 45W with Cable Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | HDMI cable (AV-out) | 1.5 m, HDMI 1.4a,TYPE A to TYPE D (Micro HDMI) | |
| Micro SD card Maximum 128G Battery DC output 7.8V, 9800mAh*1 sets DC power adapter USB PD 45W with Cable Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | USB cable (data transfer) | 1 m, TYPE C to TYPE A | |
| Battery DC output 7.8V, 9800mAh*1 sets DC power adapter USB PD 45W with Cable Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | Carry case | Airtight trolley case | |
| DC power adapter USB PD 45W with Cable Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | Micro SD card | Maximum 128G | |
| Rigid sleeve Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | Battery | DC output 7.8V, 9800mAh*1 sets | |
| | DC power adapter | USB PD 45W with Cable | |
| Centering Devices (Optional) O.D.: 18 mm*1, 38 mm*1 65 mm*1 | Rigid sleeve | Detachable hand grip (*1 pcs); 45 cm stainless steel extension poles (*2 pcs) | |
| | Centering Devices (Optional) | O.D.: 18 mm*1, 38 mm*1 65 mm*1 | |

| Regulatory | | |
|---------------|---|--|
| Basic safety | CE / FCC | |
| EMC | EN55032 / 24 , part 15B(ITE) | |
| Environmental | WEEE / RoHS/REACH / CA65 / Conflict Minerals | |
| Battery | UN38.3 (1.2 m drop / 3 m stacking / test summary) \ PSE \ IEC62133 \ BSMI \ CCC | |

| Insertion Probe | 60D4W-FS/FSM |
|------------------------------------|---|
| | |
| Still Image resolution | Front & Side: 2560*1440 |
| Video record resolution | Front & Side: 1920*1080 |
| View angle | Front (0°) + Side (90°) |
| Tip length | 25 mm |
| Tip Construction | Stainless steel housing. Front + Side 2 pairs: camera/light source/micro projector integrated packing |
| Outside Diameter (OD) | 6.0 mm |
| Probe Length | 3 m/3.5 m |
| Probe Construction | Tungsten steel out-braid |
| Field of View (FOV) | 95° ±5% |
| Depth of Field (DOF) | 10 mm~∞ |
| Illumination light source | Front: Fiber + backend LED. Side: LED on tip |
| Temperature resistant | Up to 100°C |
| *3D Measurment Software Activation | Optional |
| Articulation | Full way mechanic joystick with lock button |
| Neck bending angle | ≤ 135° |
| Console Function Buttons | Trigger: snapshot/freeze/record; Round button: bright+/bright-/custom hotkey |
| Water proof | Camera tip: IP67; Scope console: IP54 |

| *3D Measurment (Optional - Software Activation) | |
|---|------------------------------|
| Functions | Point to Point (Distance) |
| | Point to Line (Distance) |
| | Point to Plane (Depth) |
| | Multi-point to Line (Length) |
| | Multi-point-Area (Area) |
| | Two-lines-angle (Protractor) |
| Accuracy | 1 mm +/- 0.05 mm (95%) |
| Object distance | 10~25 mm |
| Measurable area | 130~830 mm² |









Mitcorp

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