

4K 3D Surgical Monitor



4K Ultra HD



Multi-window Display



High brightness



Wide Color Gamut



Various Interfaces



Front Panel Design



Ultra HD



Product Introduction

The 4K 3D UHD medical monitor features high brightness, high contrast, and wide color gamut, providing doctors with real-time, accurate 3D surgical images with true colors. This product supports multiple 3D formats, Side by Side, Line by Line, Top and Bottom, and SIMUL. The whole monitor is fully integrated with waterproof design, antibacterial treatment, and multiple video input and output interfaces to meet the display and purification requirements of various endoscopes and operating rooms.

Performance

- 3840 X 2160 resolution, capable of displaying 4K 3D UHD images
- Supports multiple 3D formats, Side by Side, Line by Line, Top and Bottom, SIMUL
- Support 3D parallax adjustment
- Maximum brightness reaches 850cd/m2
- Color gamut coverage reaches 94% NTSC
- Supports 12G-SDI, 4*3G-SDI, HDMI and other signal inputs
- Front fit protective cover for easy cleaning and disinfection
- Comply with medical device EMC testing standards and use medical-standard power adapters

Application range

It is suitable for accurate restoration and display of images output by endoscopic equipment (2D/3D) in operating rooms.

4K 3D Surgical Monitor

MIK-M3208

Display Model	MIK-M3208SC3APS
Color Type	color
Screen Size	32"
Resolution	3840*2160
Brightness	850cd/m2 Typ.
Contrast	1500:1 Typ.
3D Type	Polarized 3D display, requires wearing polarized 3D glasses
3D Display Mode	Side by Side, Line by Line, Top and Bottom, SIMUL
Video Input	12G-SDI*1, 4x3G-SDI*1, HDMI*1, DP*1, DVI*2
Video Output	12G-SDI*1
Dimension	778.82(W)x503.26(H)x81.88(D)mm
Net Weight	14KG
Installation Standard	VESA: 100*100mm、100*200mm
Input Voltage	DC 24V
Power Consumption	≤130W

Accessories



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This material is regularly updated, and if specifications, performance and design are changed, please refer to the latest product.
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The above embodied data are from the lab, please refer to the actual.

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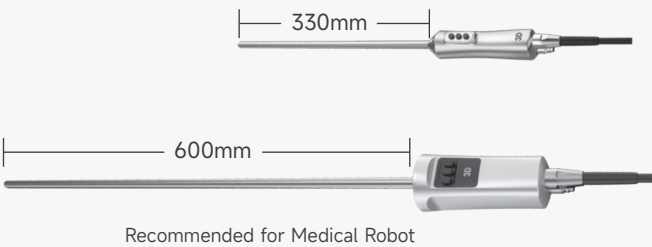
3D ICG Camera System

- Multi-color gradient fluorescence, support ICG color mode customization
- 3D automatic rotation and correction, expand the surgical field while maintaining the positive direction
- Automatic real-time recognition of multiple non-tissue targets, including gauze, surgical instruments, etc
- The excellent 3D system with low latency and 3D parallax adjustable, providing a comfortable viewing and operating experience
- Insertion length customized, supporting a length of 330-600mm



3D Integrated Camera

MIK-EC5 Series



- Multi-color gradient fluorescence, support ICG color mode customization
- Pixel-wise calibration on two cameras, relieve dizziness and vertigo feeling while watching 3D.
- Insertion length customized, supporting a length of 330-600mm
- 3 customizable function keys, supporting 2D/3D switch on just one touch.
- Integrated endoscope and camera design, no further calibration required
- High-precision attitude sensors inside to perceive the movement



Performance Technical Data				
Model	High-end 3D/ICG	High-end 3D	Standard 3D/ICG	Standard 3D
Resolution	With Greater Clarity		Standard Clarity	
ICG Mode	Supported	White Light Only	Supported	White Light Only
Optics	Tip-mounted electrical endoscope			
Aspect Ratio	16:10			
Scanning Mode	Progressive			
SNR	45dB, Gain: OFF, Gamma: Standard, DNR: High			
Weight	360g (without cable)	360g (without cable)	360g (without cable)	360g (without cable)
Camera Cable	2.9m	2.9m	2.9m	2.9m
Working Length	330mm	330mm	330mm	330mm
Insertion Part Dimension	<10.4mm			
Camera Size	φ36 x 167 mm	φ36 x 167 mm	φ36 x 167 mm	φ36 x 167 mm
Operating Temperature	5°C to 40°C			
Operating Humidity	20%-80%			
Sterilization Methods	Gas plasma, EtO			
Degree of protection	IPX8			

*Specifications of robot type: 720g without cables, 600mm φ54x144mm

3D Camera Control Unit

MIK5-P5X Series



- 3D automatic rotation and correction, expand the surgical field while maintaining the surgical image always in the positive direction, bringing a flexible observation experience.
- Automatic real-time recognition of multiple non-tissue targets, including gauze, surgical instruments, etc
- Low latency and 3D parallax adjustment, providing good 3D depth in diverse cavity scenes and comfortable viewing and operating experience
- Multiple specifications support white light 3D and 3D with fluorescent modes
- Communication protocol with light source, insufflator, etc.
- ISP5.0 advanced image function for various operation application

Automatic Real-time Recognition of Non-tissue Targets

- Gauze
- Monopolar/Bipolar
- Clip Applier
- Needle driver
- Forceps
- Graspers.....

3D & ICG Settings

- 3D Parallax adjustment
- 3D auto-rotation and correction
- Multi-color gradient fluorescence
- Fluorescence gain adjust

ISP 5.0: Advanced Image Processing

- Defog
- Detail Filter
- De-Dark
- De-Highlight.....

Performance Technical Data			
Video Output	4K : HDMI2.0, DP, 12G-SDI or 4x3G-SDI HD : 3G-SDI, DVI	Operating Temperature	5°C to 40°C
		Operating Humidity	< 90%
3D Output Format	Top-Bottom, Side by Side, Interlaced, Simul	Supply voltage	100-240 V ~ 50/60Hz
		Power Consumption	80W or less
Video Input	HD : 3G-SDI, DVI	Degree of protection	CCU: IP21
		Control Panel	On-off, menu white balance photo video
Other Interface	Remote IN : Foot Switch, RS-232 Remote OUT: CAN Interface : 3xUSB	Scene File	10 user-configurable scene files
		Recording	Image format : JPG/BMP 3840x2160 Video format : 3840x2160, 30fps, or 1920x1080, 60Hz Mpeg-4(H.264 Codec) Interface: USB (Type-A)
Work condition	Temperature: 5°C-40°C Humidity: ≤80%(Non-condensation) Air pressure: 760 hPa~1060 hPa	3D functions	2D/3D Switch, parallax adjustment, 3D format selection
			White Balance, Gain, Brightness, Hue, Chroma, Contrast, etc.
Storage & transportation condition	Temperature: -20℃-55℃ Humidity: 20% - 80% (non-condensation) Air pressure: 700 hPa~1060 hPa		

3D Camera Light Source

MIK-L131 Series

Stroboscopic Light Source Module



Specifications

- Photo/recording storage
AC 220V, 50Hz
 - Operating environment
Operating temperature 5℃-40℃
Operating humidity ≤80% (non-condensing)
- Dimensions (L×W×H)
345×337×139 mm
 - Weight
About 8.3 kg

	White Light	NIR
Light source	LED light source	LD laser diode
Service life	30,000h	20,000h
Color Index	High color rendering index /	
Continuously	Provides stable light source continuously	
Touch panel	Supports touch screen operation	
Linkage	Supports CCU linkage	

Customization

- Customizable Industrial Design
- Brand Logo and Boot Logo
- Your own UI on 5" or 8" touch screen
- Component sets Shipping available

