TECHNICAL SPECIFICATIONS

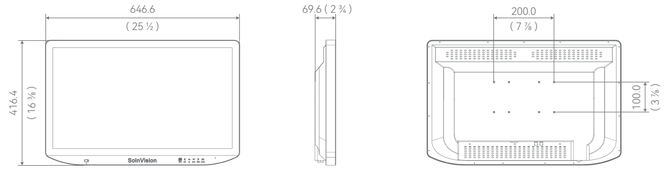
Imaging Performance	
Panel	IPS LCD Panel
Screen Size (Diagonal)	685mm (27 inch)
Active Display Area (H×V)	596.7 (H) ×335.6 (V) (W/H) 27inch
Pixel Pitch	0.1554×0.1554mm
Resolution (H×V)	3840×2160 (4K UHD)
Aspect Ratio	16:9
Active Pixels	99.99%
Backlight	LED
Brightness	800cd/m² (Max)
Contrast Ratio	1000:1
AI Image Enhancement	0–10 Levels
Color Depth	1.07 billion colors
Viewing Angle	89°89°89°89°Typical (Up/Down/Left/Right)
Gamma Settings	1.8、1.9、2.0、2.1、2.2、2.3、2.4、2.5、2.6、LINEAR、DICOM、HLG

Input	
HDMI IN	HDMI (×2)
DVI IN	DVI (×1)
DP IN	DP (×1)
SDI IN	12G-SDI/3G-SDI/HD IN (×1)
DC IN	DC 24V

Output	
HDMI OUT	HDMI (Loop Out) ×1
SDI OUT	12G-SDI/3G-SDI/HD (×1)
DC OUT	DC5V (×1)
	DC12V (×1)

General Information	
Power Requirements	DC Input: 24V, 7A (via AC adapter)
Power Consumption	Approx. 85W (Max.)
Operating Temperature	0°C to 35°C (32°F to 95°F)
Operating Humidity	30% to 85% (Non-condensing)
Storage/Transport Temperature	-20°C-+60°C;-4°F-+140°F
Storage/Transport Humidity	20% to 90%
Operating / Storage / Transport Pressure	700hPa to 1060hPa
Size	646.6×416.4×70mm
Weight	Approx. 9.4kg (without stand)
Mounting	100×100mm VESA
Accessories	AC Power Cord (×1) HDMI Signal Cable (×1) BNC Signal Cable (×1) Adapter (×1)
	Power Adapter (×1)

SIZE



Unit: Millimeters (Inches)

Front View

Rear View

Bottom View

* Product specifications are continuously optimized and upgraded.
Appearance and parameters are subject to change without prior notice.
All information is for reference only; the actual product shall prevail.

SOINVISION
BY DAJING MEDICAL

HIGH-END MEDICAL DISPLAY BRAND
EMPOWERING ACCURATE DIAGNOSIS

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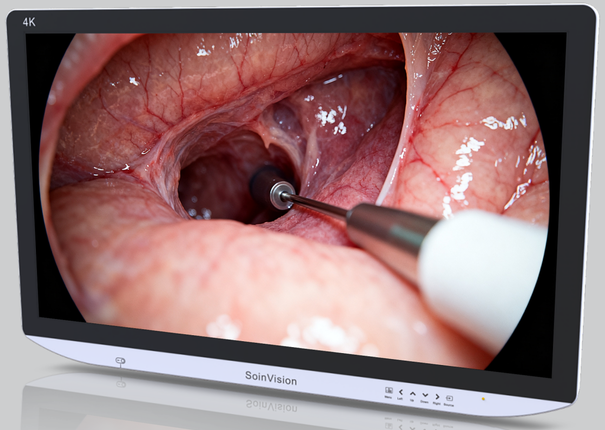
SOINVISION
BY DAJING MEDICAL



AIU270Ultra
AI Medical LCD Display

Ai 4K HDR

BREAKTHROUGH IN AI-POWERED DEPTH VISUALIZATION

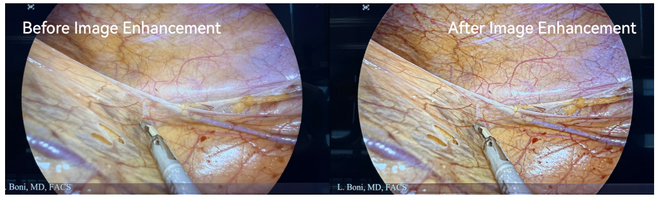
- Advanced AI image enhancement technology delivers superior image quality and clarity.
- Significantly improves image performance across various endoscope brands without altering natural tissue color.
- Effectively addresses the common issue of clear center but blurred edges.
- AI-based dehazing algorithm reduces fogging during endoscopic procedures
- Milestone-level vascular recognition, extraction, and enhancement
- Greatly enhances depth of field, ensuring both near and distant views remain sharp and clear

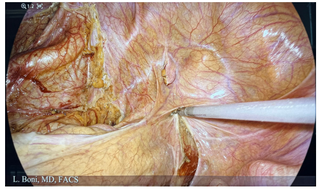
CORE TECHNOLOGY HIGHLIGHT: AI IMAGE ENHANCEMENT

The Soinvision AIU270Ultra Display integrates a FPGA-based 10-level AI image enhancement algorithm, precisely improving the visibility of fine structures such as blood vessels.By optimizing endoscopic imaging from multiple dimensions, it effectively addresses key challenges in clinical visualization.

FULL-SCENE IMAGE OPTIMIZATION

Powered by deep learning algorithms, the system enhances the contrast and clarity of blood vessels, nerves, and fine tissues, while effectively suppressing noise and artifacts.At the same time, it improves overall image quality, providing more insightful visualization for clinical diagnosis—helping physicians achieve higher diagnostic accuracy and efficiency.





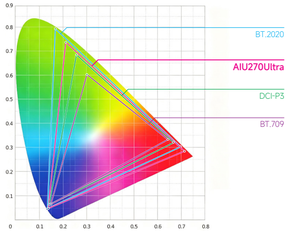
Algorithm-Based Dehazing

Significantly Improved Depth of Field

SUPERIOR IMAGE QUALITY

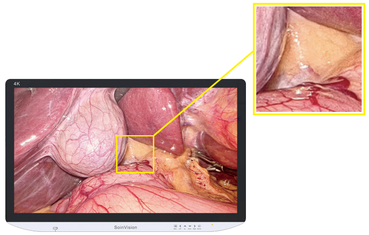
Wide Color Gamut for True-to-Life Visualization

Soinvision AIU270Ultra fully supports the BT.2020 color standard, delivering a much wider color gamut than BT.709. With accurate reproduction of up to 1.07 billion colors, it provides more natural tissue and anatomical visualization, helping reduce clinical misjudgment caused by color deviation.



4K Resolution Enhancement

Supports intelligent upscaling of low-resolution input signals to 4K Ultra HD, delivering images with four times the pixels of Full HD.
This ensures sharper, more natural visuals, allowing even the finest surgical details to be clearly visible.



High-Standard Image Performance

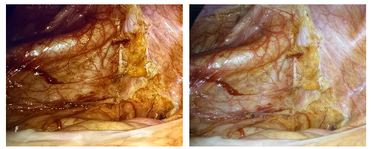
Equipped with an LED backlight, the Display delivers 800 cd/m² brightness and a contrast ratio of ≥1000:1.
Its 178° wide viewing angle ensures clear visibility from multiple positions, supporting efficient collaboration in the operating room.

Multi-Mode Gamma Adjustment

Supports gamma settings from 1.8 to 2.6, including LINEAR, DICOM, and HLG modes, for precise adaptation to different medical imaging and surgical requirements.

Enhanced Clarity in Bright & Dark Areas

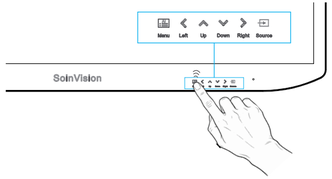
HDR technology delivers a wider dynamic range for clearer and more detailed images.it reduces detail loss in both bright and dark areas, while HLG signal support restores more image details for enhanced surgical visualization.



SDR HDR

Intuitive & Efficient Operation

Features an intuitive control panel with audible feedback for easy operation.
The simplified button layout allows quick and accurate control, even in low-light operating room environments.

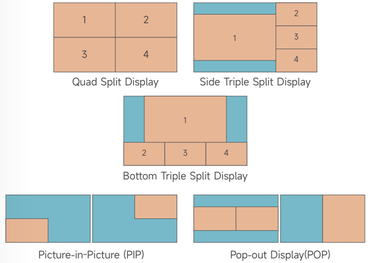


ADVANCED USER-FRIENDLY FEATURES

Multi-View Display

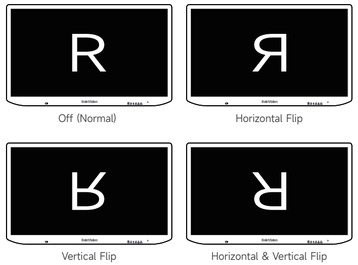
(PIP / POP / Quad Split Display / Side Triple Split Display / Bottom Triple Split Display)

The AIU270Ultra supports multiple display modes, enabling simultaneous viewing of different input sources on one screen.Each image can be independently adjusted for gamma and color gamut to meet various clinical imaging needs.



Ideal Viewing Orientation

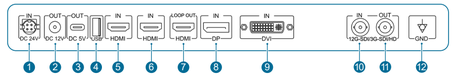
Supports vertical, horizontal, and combined image flip modes, ensuring optimal viewing regardless of endoscope orientation during procedures.



Professional Medical Design

Featuring a narrow bezel and rounded corner design, the AIU270Ultra integrates seamlessly into operating room environments.With an IP65-rated front panel and IP32-rated overall protection, it offers reliable resistance to dust and water splashes for medical applications.

MULTIPLE INTERFACES COMPATIBLE WITH DIFFERENT DEVICES

The Soinvision AIU270Ultra features multiple input and output interfaces for seamless integration with medical systems, including HDMI, DVI, and DP.
The Display also provides external power supply options, including DC 12V/2A and USB-C 5V/2A ports, supporting connected devices and signal conversion needs.

1. DC24V (IN)
2. DC12V (OUT)
3. DC5V (OUT)
4. USB
5. HDMI (IN)
6. HDMI (IN)
7. HDMI (Loop out)
8. DP (IN)
9. DVI (IN)
10. 12G-SDI/3G-SDI/HD (IN)
11. 12G-SDI/3G-SDI/HD (Loop out)
12. EQP GND