SonoScape

AN IMMERSIVE EXPERIENCE IN A CRYSTAL-CLEAR WORLD

The 4K Solution

A part of SonoScape's Minimally Invasive Surgery (MIS) Product Line

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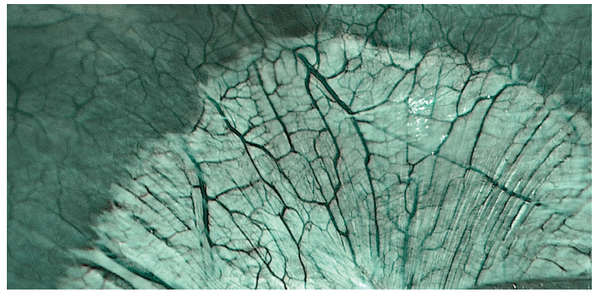
The imaging technology you can rely on

Every SonoScape's MIS system comes with VIST[1], a chromoendoscopy technology that combines optical and digital image processing. VIST enhances the details of the mucosa and the blood vessels. With this added information, VIST may help surgeons in lesion detection and in-vivo diagnosis.



[1]*Versatile Intelligent Staining Technology*

Image Processor SV-M4K30	
Resolution	3840×2160p 60Hz
Storage	USB in Jpeg/Mpeg4
Video output signal	4×3G-SDI, HDMI
White balance	Auto and memory
Image enhancement	VIST, sharpness/contrast, backlight compensation and Digital Metering Technology
IRIS	Full(F), Wide(W) and Circle(C) mode
Weight	7.5kg
Dimensions (L×W×H)	360×125×396 mm

Light Source SL-ED10	
Lamp	2-LED
Brightness	Level 1-19
Light modes	WL / VIST
Standby mode	Low illumination
Mechanical features	Low heat, low noise
Weight	11kg
Dimensions (L×W×H)	360×125×396 mm

Illumination Cable	
	Type92-480-300
Total length(mm,±5%)	3000
Diameter	4.8 mm
Spectral transmittance(420-720 nm)	≤25%
Light transmittance(420-720 nm)	≤35%

The visual experience you can truly trust

Equipped with a 3-CMOS image sensor, the image colour, edge and structure are optimised, the noise minimised. It provides an outstanding and stable visual field down to details, creating an excellent visual experience for the surgeons with true-to-colour images, enabling easier and finer operations.

Say farewell to visible pixels: SonoScape's 4K system supports 3840×2160 resolution, provides much more information than in the conventional HD. No details are lost even if it is zoomed at 2.0X.

The optical excellence you called for

The paired light source employs multi-LED lights. You will obtain a noticeable brighter, high-quality image with minimal light loss. With the durable and malleable illumination cable, it further improves the light transmittance efficiency.

The light output is auto-adjusted according to the environment, maintaining a stable brightness, and balancing the light attribution.

Camera Head

The configuration and versatility you demand

High performing, functional and ergonomic, SonoScape's camera head is equipped with a 3-CMOS image sensor.

- Versatile 16-32 mm multi-focal lens allows up to 2X optical zoom, satisfying various visual field requirements in different specialities.

- The 4 customisable, one-key-access remote buttons facilitate parameters tuning in the middle of a procedure.

The international standard C-mount guarantees better compatibility with other brands and models of endoscopes.

Camera Head	
Resolution	3840×2160p 60Hz
Lens mount	Universal coupling
Image sensors	3×4K UHD CMOS sensors
Magnification ratio	Focal lens 16-32 mm
Digital zooming	2-time, 3-step
Chromoendoscopy	VIST
Progrmmable camera head buttons	+/- buttons: Brightness adjustment, Edge enhancement, Image magnification or Contrast enhancement A/B buttons: White balance adjustment, Snap/Record, Gain, VLS or freeze
Type of protection against electric shock	Type BF
Degrees of protection against harmful liquid	IPX7
Weight	340g

Rigid Scopes

The sublime match you have imagined

Your high definition image processing system deserves a scope like this.

Introducing SonoScape's brand new small diameter rigid scopes, spinning from a variety of medical specialities and offering endless minimally invasive therapeutic possibilities

Designed to meet the key requirements for any successful procedure, our rigid scope portfolio is the epitome of consistently clear visual field and exceptional first-class HD image quality. Pair it with SonoScape 2K or 4K system, experience this sublime match and the efficiency it brings to your operation room.

Laparoscopes

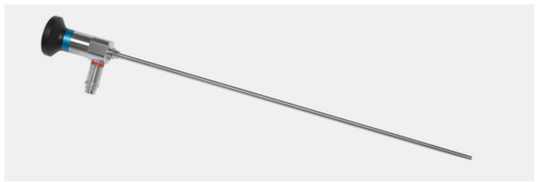
Rigid endoscope with rod lens system: 10 mm & 5.0 mm in diameter

Item	Endoscope	Working length	Direction of view	Field of view
11.0031a	10.0 mm HDScope	307 mm	0°	wide angle
11.0043a	10.0 mm HDScope	307 mm	30°	wide angle
11.0055a	5.0 mm HDScope	312 mm	0°	wide angle
11.0057a	5.0 mm HDScope	312 mm	30°	wide angle

Arthroscopes

Rigid endoscope with rod lens system: 4.0 mm in diameter

Item	Endoscope	Working length	Direction of view	Field of view
21.003a	4.0 mm HDScope	175 mm	0°	wide angle
21.008a	4.0 mm HDScope	175 mm	30°	wide angle
21.0011a	4.0 mm HDScope	175 mm	70°	wide angle



Hysteroscopes

Rigid endoscope with rod lens system: 2.9 mm in diameter

Item	Endoscope	Working length	Direction of view	Field of view
41.0160a	2.9 mm HDScope	302 mm	0°	wide angle
41.0161a	2.9 mm HDScope	302 mm	30°	wide angle

Cystoscopes

Rigid endoscope with rod lens system: 4.0 mm in diameter

Item	Endoscope	Working length	Direction of view	Field of view
41.0047a	4.0 mm HDScope	302 mm	0°	standard
41.0059a	4.0 mm HDScope	302 mm	12°	standard
41.0057a	4.0 mm HDScope	302 mm	30°	standard

The uplifted hand-eye coordination you desire to achieve

The large, near-patient surgical display is known for its outstanding display performance in the OR:

- True image restoration with a high brightness and a high contrast that helps with detailed observation and accurate manoeuvre.
- Input and output interfaces are fully compatible with the most often used medical devices.
- Built-in multi-channel video interfaces, such as DVI, SDI, HDMI and DP , where the DVI and SDI signal interface can be looped out to another monitor.
- Built-in equalisation processing circuit to enhance the receiving capacity in the case of a long-line transmission.

DSH-315WA	
Resolution	3840×2160p 60Hz
Size	31.5" LED backlight monitor
Effective display Area (H×V)	697.3×392.2 mm
Net weight	13.5 ± 0.5 kg
Response time	TGTG:14ms
Colour support	1.07 Billion
Pixel pitch (H×V)	0.18159×0.18159 mm
Luminance (min)	800cd/m^2
Contrast ratio (min)	910:1
Viewing angle	L/R 178° Typ, U/D 178° Typ (CR>10)
Signal input	DVI/SDI/HDMI/DP
Signal output	DVI/SDI
Power	DC 24V 7.0A
Keyboard	Capacitive 7-key touch keyboard
Dimensions (L×W×T)	752.3×436.4×75.4 mm

The uninterrupted workflow that becomes a part of you

Designed to streamline your workflow, SonoScape's trolley selection makes a perfectly stable and reliable companion.

HDT-500R	
Trolley workload capacity	280kg
Shelf-A, B load capacity	40kg each
Wheels/castors	Four antistatic wheels with individual brakes
White balance cap	Mounted on trolley
Trolley material	Metal and moulded fibre
Keyboard holder	Available
Rear door	Available with Magnetic Locks
Isolation transformer	Available
Adjustable scope hanger	Available (Optional)
Light guide connector holder	Available
Adjustable shelf height	Available (Shelf-A,B)
Swivel monitor hanger	Available
Dimension	1183(H)×706(D)×579(W) 425 mm×470 mm working space per tray