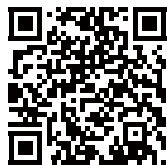
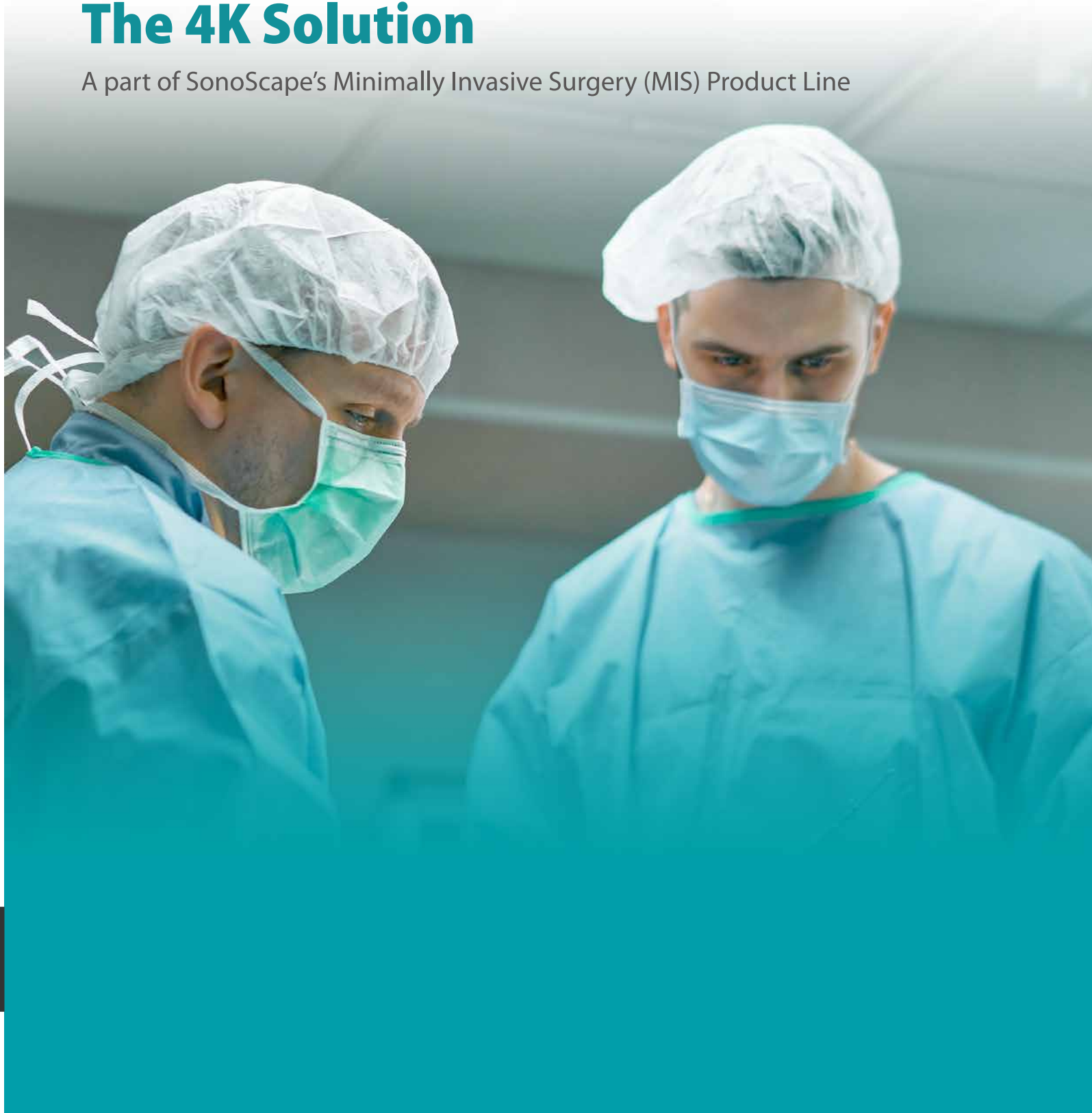


# AN IMMERSIVE EXPERIENCE IN A CRYSTAL-CLEAR WORLD

## The 4K Solution

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



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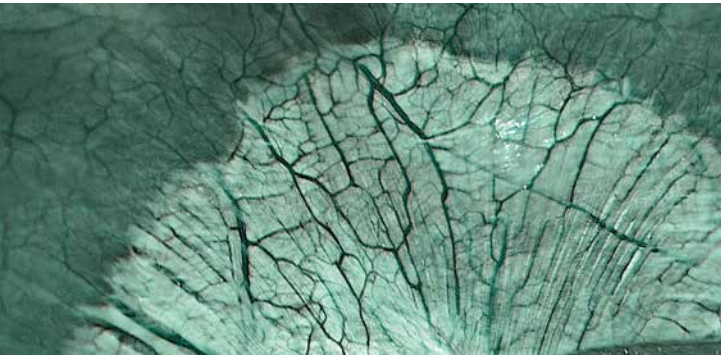
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R-SV-M4K302020128



## The imaging technology you can rely on

Every SonoScape’s MIS system comes with VIST<sup>1</sup>, 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.



<sup>1</sup>Versatile Intelligent Staining Technology

## 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.

| 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%           |



Camera Head

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 specialties 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.

## 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 specialties.
- 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<br>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                                                                                                                                                                         |



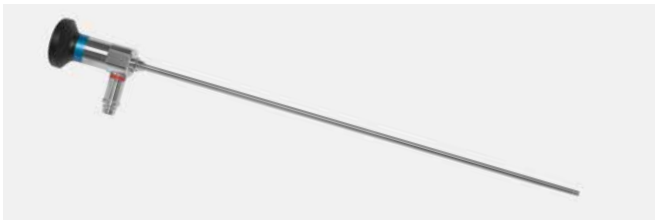
**Laparoscopes**  
Rigid endoscope with rod lens system: 10 mm & 5.0 mm in diameter

| Item     | Endoscope Ø     | Working length | Direction of view | Field of view |
|----------|-----------------|----------------|-------------------|---------------|
| 11.0031a | 10.0 mm HDScope | 344 mm         | 0°                | wide angle    |
| 11.0043a | 10.0 mm HDScope | 344 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    |



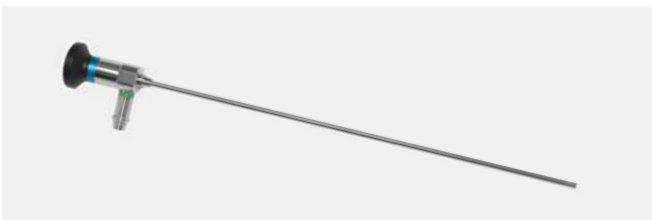
**Arthroscopes**  
Rigid endoscope with rod lens system: 4.0 mm in diameter

| Item     | Endoscope Ø    | 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 Ø    | 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 Ø    | 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.

|                              |                                    |
|------------------------------|------------------------------------|
| S3281P                       |                                    |
| 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 <sup>2</sup>               |
| 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)<br>425 mm×470 mm working space per tray |

