SV-1000
1.6MM Ø x 1.9M FLEXIBLE CHIP-ON-TIP
DIGITAL VIDEO BORESCOPE SYSTEM
WITH ILLUMINATION

INNOVATIVE DIGITAL VIDEO BORESCOPE
INSPECTION SOLUTION

New! Small, 1.6 mm Ø O.D., water-resistant inspection camera is specially designed for clear, illuminated borescope and industrial equipment inspections where space is limited.

Features include:
- Small size - only 1.6 mm Ø O.D.
- Sensor - CMOS, 1 mm x 1 mm
- 400 x 400 pixel resolution
- 120-degree FOV lens
- Integrated LED light for illumination within a 1.9m flexible shaft
- Dual, simultaneous image outputs - HDMI and USB 3.0
- PC-based image viewing software for display and capture of images and video clips for documentation is available

Ideal for inspection of:
- Engine parts
- Turbine blades
- Injection molded parts
- Castings
- Tooling
- Pipes
- Tubing
- and more

Note: SV-1000 is not for use in surgical endoscope and medical instrument inspection applications.
**PERFORMANCE SPECIFICATIONS**

**System Components**

- Camera assembly diameter: <1.6 mm
- Camera sheath length tip-to-handle mount: 1.9m
- Cable length handle mount to CCU: 2.0m
- Total cable and sheath length, tip to CCU: 3.9m
- LED location: Handle mount
- Illumination: LED with glass fiber bundle

**SENSOR**

- Type: CMOS
- Size: 1.05 x 1.05 (1/18")
- Pixel matrix: 400 x 400
- Scanning system: Progressive
- Electronic shutter: Rolling

**OPTICS**

- FOV - field of view: 120°
- Depth of focus: 5 to 50 mm
- Magnification - depends on viewing distance: up to 12x
- F number: f5.0
- Focal length: 0.418 mm
- Output: HDMI, USB 3.0 (type B)
- Output frame rate: 30 fps
- S/N Ratio: 36.8dB
- PC Required for use: No
- Recording SW: See connection diagram below
- Recorded image formats: .JPG for stills, .AVI for video
- Watertight camera assembly: Yes - water-resistant camera assembly tip to CCU connection
- Camera head / handle mounting: 1/4 - 20 threaded socket
- Handle Dimensions: 84 x 44 x 39 mm, 3.3 x 1.8 x 1.6"
- CCU Dimensions L W H & weight: 90 x 158 x 59 mm, 3.5 x 6.2 x 2.3", 0.59 kg (1.3 lbs)
- Power input: 12V DC, 1A
- Included accessories: 12V DC power adapter, 6' HDMI cable, 6' USB 3.0 cable type A to type B

**SYSTEM COMPONENTS**

- SVH01N Camera Head Assembly
- SVD01N CCU
- Optional HDMI Display
- Optional Tablet with SW for Recording
- Optional Mounting HW

**DIMENSIONS**

**CCU**

- FRONT: 90 mm (3.54")
- REAR: 158 mm (6.22")

**Camera Handle**

- Top: 56.5 mm (2.22")
- Side: 140.5 mm (5.53")
- 44.5 mm (1.75")

- Convenient 1/4 - 20 threaded tripod mount for attaching to a fixture or holder.

**CONNECTIONS**

- SV-1000 CCU (P/N: SV1D01N)
- Monitor
  - HDMI
  - USB 3.0
- Windows Tablet/PC
  - (Optional for image capture and recording)

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