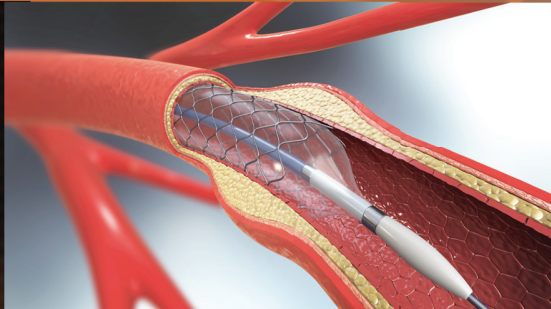
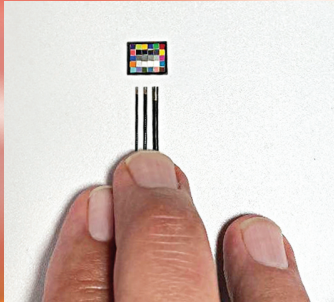




## Innovative Video Borescope Inspection Solution

# SV-2000

1.6 mm Ø, 400 x 400, CMOS  
1.05 mm Ø, 200 x 200, CMOS  
0.89 mm Ø, 400 x 400, CMOS



The innovative **SV-2000** is a cutting-edge chip-on-tip video borescope camera which supports a diverse range of inspection applications. When getting into tight spaces, the SV-2000 has the capacity to deliver full-color, high resolution video inspections and image capture with integrated LED illumination.

The SV-2000 is ideally suited for a variety of inspections including catheters, tooling, machined parts, and assembly process monitoring. Two new control systems provide automatic brightness control, multi-sensor compatibility, and image capture of still images or video clips. All of the SV-2000 scopes are fully sealed and water resistant for disinfection or use in wet environments.



### Features include:

#### Two control unit options:

1. Tablet with integrated touchscreen display and on-board recording
2. CCU for use with external display (not included) and recording to USB media

#### Three rugged, flexible scope configurations:

- 1.6 mm x 1.9m, 120° FOV, 400 x 400 resolution
- 1.05 mm x 1.2m, 120° FOV, 200 x 200 resolution
- 0.89 mm x 1.2m, 120° FOV, 400 x 400 resolution

- All scopes water resistant IPX7
- All scopes are plug and play with CCU or tablet
- Scope handle 1/4 x 20 thread mount

#### 10" class touchscreen CCU features:

- On-board image recording & playback
- Image annotation
- Image export to USB media
- Magic Light feature for brightness control

#### Both control units include:

- HDMI® and USB 3.0 outputs
- USB 3.0 output for streaming connection to PC
- Manual and Auto brightness control
- White Balance and Calibration functions
- Firmware updates via USB

# SV-2000

FLEXIBLE CHIP-ON-TIP  
DIGITAL VIDEO BORESCOPE SYSTEM WITH ILLUMINATION  
1.6 MM Ø x 1.9M  
1.05 MM Ø x 1.2M  
0.89 MM Ø x 1.2M

## Performance Specifications

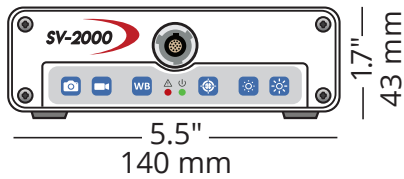
### SYSTEM COMPONENTS

MODEL	SV-2H01N 1.6 mm x 1.9m	SV-2H02N 1.05 mm x 1.2m	SV-2H03N 0.89 mm x 1.2m
Scope assembly diameter	1.6 mm	1.05 mm	0.89 mm
Scope sheath length tip-to-handle mount	1.9m	1.2m	1.2m
Cable length handle mount to CCU	2.0m	2.0m	2.0m
Total cable and sheath length, tip to CCU	3.9m	3.2m	3.2m
LED location	Handle mount	Handle mount	Handle mount
Illumination	LED coupled glass fiber bundle	LED coupled glass fiber bundle	LED coupled glass fiber bundle
<b>SENSOR</b>			
Type	CMOS Progressive	CMOS Progressive	CMOS Progressive
Size (optical format)	1.1 x 1.1 (1/18")	0.64 x 0.64 (1/36")	0.65 x 0.65 (1/31")
Pixel matrix	400 x 400	200 x 200	400 x 400
Electronic shutter	Rolling	Rolling	Rolling
<b>OPTICS</b>			
FOV - field of view	120°	120°	120°
Depth of focus	5 to 50 mm	3 to 50 mm	3 to 30 mm
Magnification - depends on viewing distance	up to 12x	up to 12x	up to 12x
F number	f 5.0	f 2.8	f 2.8
Focal length	0.418 mm	0.175 mm	0.175 mm
Water resistance rating	IPX7	IPX7	IPX7
Camera head / handle mounting	1/4 - 20 threaded socket	1/4 - 20 threaded socket	1/4 - 20 threaded socket
Handle dimensions	85 x 44 x 39 mm (3.3 x 1.7 x 1.5")	85 x 44 x 39 mm (3.3 x 1.7 x 1.5")	85 x 44 x 39 mm (3.3 x 1.7 x 1.5")
<b>CCU &amp; TABLET CONFIGURATIONS</b>	<b>SV-2D01N Non-display CCU</b>	<b>SV-2T01N Tablet</b>	
Display	External (not included)	Integrated, 10" class touchscreen	
Touchscreen format	N/A	Capacitive	
Output	Simultaneous HDMI, USB 3.0 (UVC)	Switchable HDMI, USB 3.0 (UVC)	
Output frame rate	30 fps	30 fps	
PC required for use	No	No	
Recorded image formats	.PNG stills, MPEG4 clips	.PNG stills, MPEG4 clips	
Image record	Image capture to USB media	Image capture, review, annotation, export/import USB media	
Key functions	Auto/Manual brightness white balance, calibration	Auto/Manual brightness Magic Light ROI brightness control white balance, calibration	
Water resistance rating	None	None	
CCU dimensions W L H	140 x 200 x 43 mm (5.5 x 7.9 x 1.7")	251 x 48 x 206 mm (9.9 x 1.9 x 8.1")	
CCU weight	0.95 kg (2.1 lbs)	1.25 kg (2.8 lbs)	
Mounting	N/A	VESA 75, internal kickstand	
Power input	12V DC, 0.6A	12V DC, 0.6A	
Environmental	Operating temperature: 10 ° to 35 °C Humidity: up to 75% non-condensing Storage temperature: -20 ° to 70 °C	Operating temperature: 10 ° to 35 °C Humidity: up to 75% non-condensing Storage temperature: -20 ° to 70 °C	
Included accessories	12V DC power adapter 6' HDMI cable 6' USB 3.0 cable type A to type B USB media FAT32 16GB minimum	12V DC power adapter 6' HDMI cable 6' USB 3.0 cable type A to type B USB media FAT32 16GB minimum	

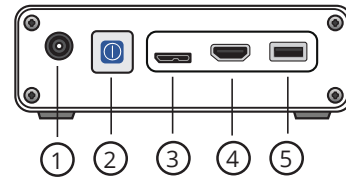
## System Component Dimensions

### CCU

Front

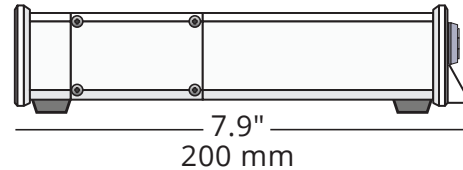


Rear

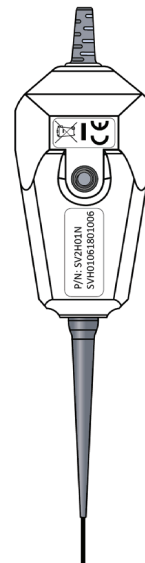
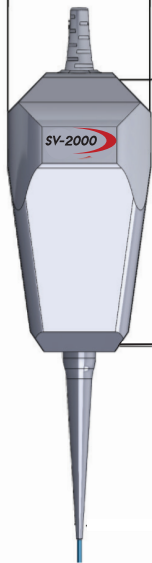
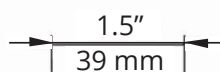
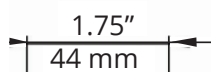


1. Power input
2. ON/OFF button
3. Streaming USB 3.0 out
4. HDMI output
5. USB media recording

Side

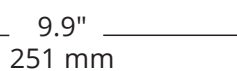


### SCOPE HANDLE

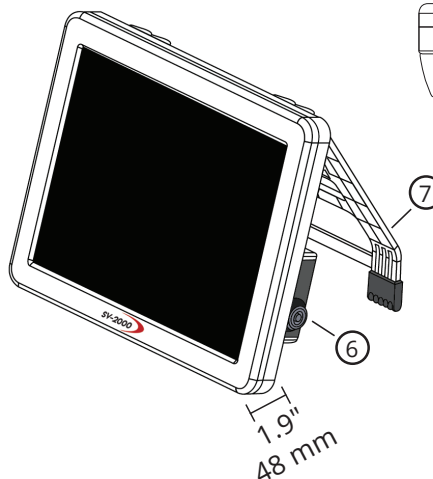
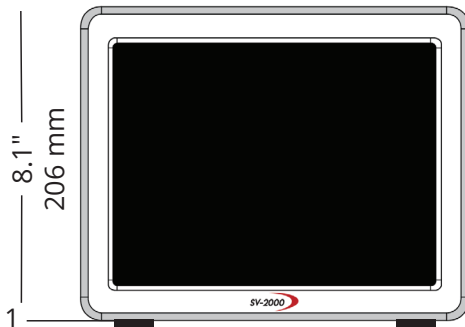


Convenient 1/4 - 20 threaded tripod mount for attaching to a fixture or holder.

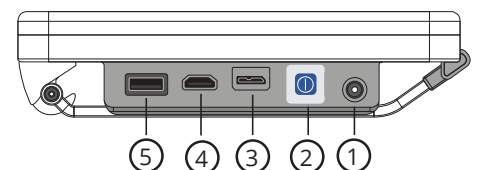
Front



### TABLET



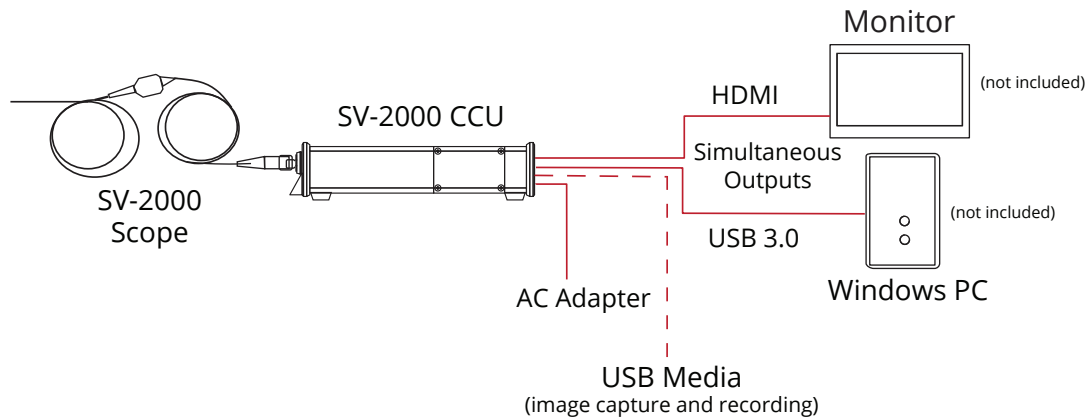
Side



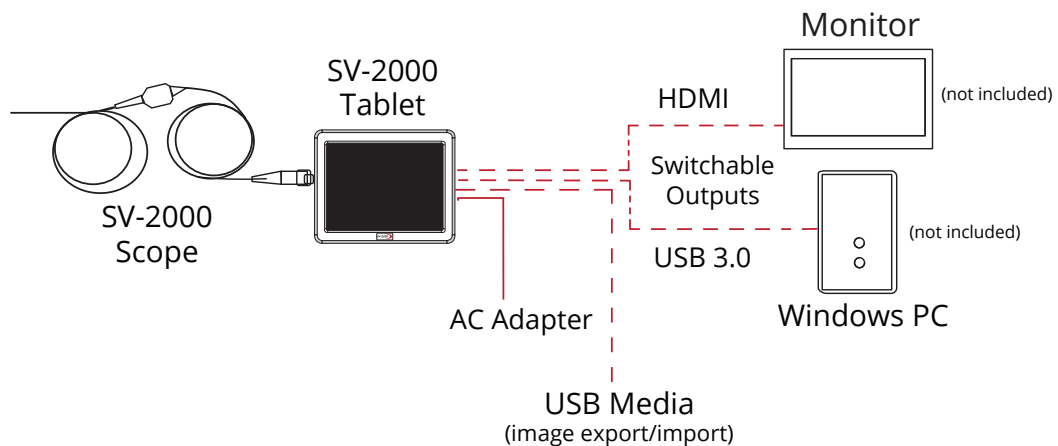
1. Power input
2. ON/OFF button
3. Streaming USB 3.0 out
4. HDMI output
5. USB media import/export
6. Scope input
7. Tablet kickstand

# Optional Connection Configurations

## Connection using SV-2000 CCU



## Connection using SV-2000 tablet



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<https://mcu.canon/VSD> | 2355 Main Street, Suite 150, Irvine, California 92614

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**Note:** SV-2000 is not for use in surgical endoscope and medical instrument inspection applications.

VSSV2000 01012023 V1