Endosco for Industry Image fiber type Endoscope for industry **CCD Camera Type** Tel: 510.226.0889 info@ysctech.com Technologies

Image fiber type

Lightscope

Internal light source type

Interlock
Flexible





Interlock
Interlock type

Flexible type

Flexible so it can be insert into pipes

5mm

(6)mm

8 mm

Diameter of

endoscope end

Improved resolution!
Resolution of **7,400** to **10,000** pixels

NEW

For a clearer image!

Portable so it can be used anywhere.

- More pixels and greater resolution than the previous MSPS, MSPI Series. (Previous model: 3,500 pixels → New model: 7,400 pixels)
- A long-life white LED is used as the light source.
 Batteries also last longer.
- A clear image is obtained by using white light with a high color temperature.
- The tip and cord areas are waterproof (from 1 to 1.3 atmospheres).
- Camera photography is possible with a digital camera adapter (soldseparately).
- The distance from the object can be any distance greater than 10 mm.
- If a right angle adapter (sold separately) is attached and the endoscope is rotated, a 360° view can be obtained.

The ideal endoscope for studying and making observations within tight areas and deep spaces.

The distance from the object can be adjusted from any distance greater than 10 mm, and with a waterproof cable, there is no possibility of water leakage. An interlocking type and flexible type is available, offering clear viewing, photographing and recording of clear image data.

★ Comparison of images with previous models (company comparison)

MSPS-1000IV 7,400 pixels (white LED)

MSPS-1000III 3,500 pixels (halogen lamp)





SUS flexible pipe (internal diameter ø10

Accessory

For the Lightscope

■ Standard set (supplied with the Lightscope)



Lightscope hard carry case
Protects the scope and makes
carrying the Lightscope easy

■ Optional extras

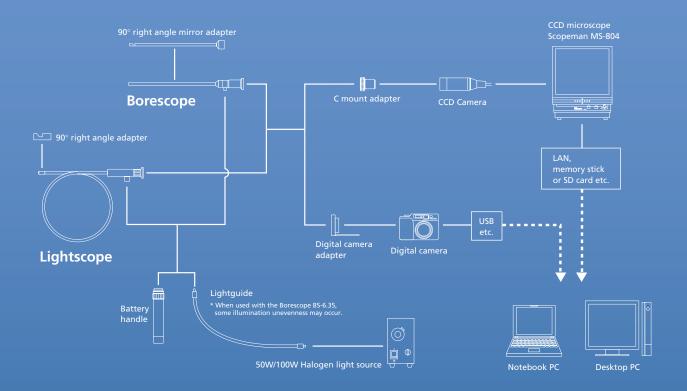




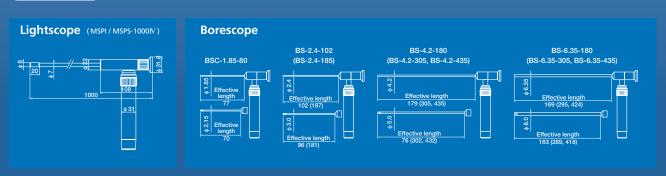




SYSTEM FLOW



Dimensions



Optional extras Digital camera adapter C mount adapter A digital camera adapter is available for optimum photography at client locations or work sites. This adapter allows a large range of different digital cameras to be attached. The adapter allows groups of people on site to check images, take photographs, record data and file images on computers. C mount adapter Attachment adapter for a CCD camera. Allows a camera to be attached to the Lightscope to view images. Light source unit A compact and lightweight, high luminance and highly reliable illumination device. Delivers light effectively from the light source unit to the endoscope. (flexible type)



Endoscope for industry

Borescope

Internal light source type

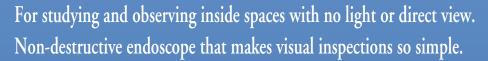




Diameter of endoscope end

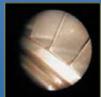






- Instead of using an expensive and compact lens, multiple glass rod lenses are used to keep costs down.
- The special construction means reduced distortion or blurring due to lens aberration.
- Focus adjustments mean the object can be at any distance from the tip of the endoscope.
- Camera photography is possible with a digital camera adapter (sold separately).
- ీ If a right angle adapter (sold separately) is attached and the endoscope is rotated, a 360° view can be obtained.

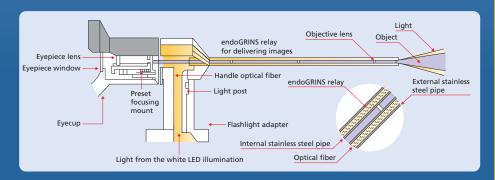






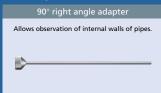
(Construction)

Construction of the Borescope is extremely simple. An optical fiber tube is passed through a thin stainless steel pipe to illuminate the object, delivering clear images of the object to the eyepiece. The Borescope offers easy access to observations within tight areas and deep spaces at an unprecedented cost performance.



■ Standard set (supplied with the Borescope)









● Lightscope

Category	Туре	Interlock type (Maintains its flexible position)					Flexible type (Flexible so it can be inserted into pipes)					
	Model Name	MSPI- 1000IV	MSPI- 2000IV	MSPI- 3000IV	MSHI- 1000IV	MSGI- 1350IV	MSPS- 1000IV	MSPS- 2000IV	MSPS- 3000IV	MSHS- 1000IV	MSGS- 1350IV	
Fiber	Material		Acr	ylic		Glass	Acrylic				Glass	
	Resolution	7,400 pixels			7,500 pixels	10,000 pixels	7,400 pixels			7,500 pixels	10,000 pixels	
	End diameter	ø8 mm			ø6 <i>mm</i>	ø8 <i>mm</i>	ø8 mm			ø5 <i>mm</i>	ø8 <i>mm</i>	
	Strand diameter	20 μm			15 μ <i>m</i>	_	20 μ <i>m</i>			15 μm	_	
Tube	Material	SUS Interlock + PVC sheath					SUS Flexible + PVC sheath					
	Maximum bending radius	100 mm (maximum 360°)					40 mm (maximum 360°)					
	Effective length of standard items (waterproof type case supplied)	1,000 mm	2,000 mm	3,000 mm	1,000 mm	1,350 mm	1,000 mm	2,000 mm	3,000 mm	1,000 mm	1,350 mm	
Light source	LED	White light 1W										
Ligitt source	Power source	2 × size C batteries (sold separately)										
	Direction of view	Straight view, right angle view possible with an optional adapter										
Optical system	Angle of view	Approximately 60°										
	Focus length	10 mm to infinity (fixed focus point)										
Waterproofing		The tip and tube are water proof (from 1 to 1.3 atmospheres (1013 to 1317 hPa)). Other parts not waterproof.										
Operating temperature range		Output end: –20°C to 60°C / Battery handle: 0°C to 40°C										

Borescope

Model		BSC-1.85-80IV	BS-2.4-102 I V	BS-2.4-185IV	BS-4.2-180IV	BS-4.2-305IV	BS-4.2-435IV	BS-6.35-180 I V	BS-6.35-305 I V	BS-6.35-435 I V		
	Diameter of endoscope end	ø1.85 mm	ø2.4 <i>mm</i>			ø4.2 mm		ø6.35 <i>mm</i>				
Main body	Right angle adapter end diameter	ø2.15 mm	ø3.0 <i>mm</i>			ø5.0 <i>mm</i>		ø8.0 <i>mm</i>				
	Effective length	77 mm	102 mm	187 mm	179 mm	305 mm	435 mm	169 mm	295 mm	424 mm		
Light source	Lamp	White LED										
	Power source	2 × size C batteries (sold separately)										
Direction of view		Straight / 90° right angle view (when using an adapter)										
Angle of view		32°			37°			42°				
Focus length		10 mm to infinity										
Waterproofing		Not waterproof										
Operating temperature range		Endoscope end: -40°C to 120°C / Battery handle: 0°C to 40°C										

● CCD Video Endoscope

Type	Interlock type						
Model	MSCI-1000						
Effective length	1000 mm						
Diameter of endoscope end	Ø9.8 mm						
Number of effective pixels	1/4 inch interline 380,000 pixel CCD camera						
Signal type	NTSC						
AGC	Auto (MAX 24dB)						
Electronic shutter	Auto (1/60 to 1/100,000)						
Switching function	Left/right inversion, normal mirror switching						
Field of view	Straight (right angle view available as an option)						
Angle of view	Horizontal 68.8°, vertical 51.6°, diagonal 86°						
Focus length	40 mm to infinity						
ht source)	6 chip type LEDs						
	6 × size AAA batteries or AC adapter						
	3 hours of continued use (when using alkaline batteries)						
	Drip proof *						
	Interlock pipe PVC tube sheath						
erature	-10°C to + 60°C (actual operation)						
	700 g (including batteries)						
	Main unit, battery case, image cord, AC adapter, special aluminum case, instruction manual						
	Effective length Diameter of endoscope end Number of effective pixels Signal type AGC Electronic shutter Switching function Field of view Angle of view						

^{*}Drip proof specifications are different from complete waterproof specifications. If the unit is immersed in water it will still become damaged. Damage due to water penetration is not covered by the warranty.



Do not use for medial purposes.



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