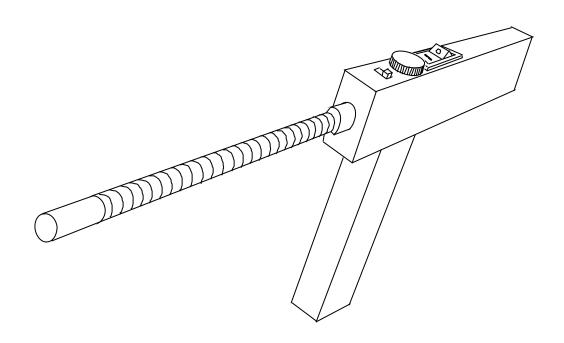
# MOR ITEX

**CORPORATION** 

CCDEndoscope MSCI- 1000

## Operation Manual



### Features

Clear image achieved by a high-sensitivity/resolution CCD camera Compact design and high portability Easy to operate Easy to connect with video devices

Before use, please read this manual first and keep this manual with the warranty card provided in the last page.

#### **BEFORE USE**

Before use, please read this manual

Please be sure to follow the instructions given in its manual when using this device for your safety

The degree of risk arising from improper use is classified by the following icons



Warning This sign applies when improper use of the device may result in

death or serious personal injury



Caution This sign applies when improper use of the device may result in

personal injury or damage to the device

#### Other signs

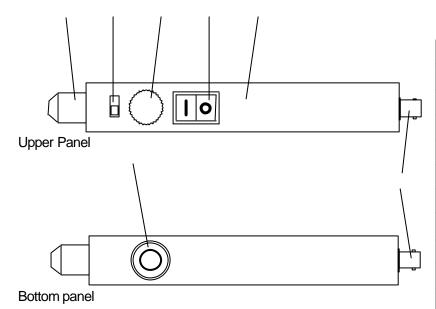


This sign indicates prohibited activities that are shown in figure either inside of or beside each sign (Left indicated "No disassembly" for example)



This sign indicates prompted activities also shown in figure either inside of or beside each sign (Left indicated "Please unplug the device" for example)

#### Part names and descriptions



Part Names
Probe Holder
Erect/Mirror image selector
Light Volume adjustment
ON/OFF switch
Main body
DC / Battery connector
VBS Output / BNC
Chip bonded LED
LENS
Groove for focus adjustment

Insertion end



Clockwise
Farther focusing
Counter-clockwise
Closer focusing



#### Warning

#### Instruction for use



In the event of a failure, please immediately unplug the device

Continued use of the device in failure may become fire hazard or electrocution hazard. Please unplug the device and contact your authorized dealer or local Moritex sales office listed on the last page of this manual

#### Please also be advised to unplug the device in the event;



of smoke, unusual odor and/or noise



of water or other liquids entering the unit



of foreign objects entering the unit



that the device and/or power cord is damaged



of no image coming on screen without known case

#### Handling the device



Do not expose the device to shocks and vibrations



Do not disassemble and/or modify



Please switch off the device when connecting and disconnecting the camera cable



Do not apply the device to the human body

#### Care and maintenance

Please do not place the device on an unstable or inclined location

Please do not place the device under objects that may fall

Please do not place objects on the device



Please keep the device away from water and chemicals

Please keep the unit away from an extremely cold and warm environment

Please do not use in a humid environment, steams and condensation

Please keep the surrounding environment clear from dust

Please do not place the device in an area with poor ventilation

Please keep the device away from flammable or corrosive gases

#### **Power supply**



Do not use with any power voltage other than the indicated voltage



Do not modify the power cord



Do not damage the power cord



Handling of items related to Power Supply.

0

Do not plug or unplug the power supply cable with wet hand.

0

Please unplug the cable when not use for a long while of time.



Please unplug the cable when improvement or movement.



Please hold the plug part when unplugging.



Do not make cable close to any heating devices or instruments.

If you may not follow to these cautions, may occur a fire or get an electrical shock.

#### Specification

ltem Model	MSCI-1000
Tip Diameter	9.8 mm
Camera	1/4" Interline CCD
Effective Pixel Number	0.38 mega pixels
Scanning System	21 interlaced
Signal System	NTSC
Sync System	Internal
Video Output	1.0 Vp-p 75 Ohm Unbalanced VBS
S/N ratio	48 dB or more
Minimum Illumination	2 Lux (AGC ON F1.4)
Horizontal Resolution	500 TV Lines or more
AGC	Auto (MAX 24 dB)
Shutter	Auto (1/60 to 1/100,000)
White Balance	Auto
Gamma	0.45
lmage	Normal / Mirror Image switchable
Power Requirements	DC 7V to DC12 V
Ampere Consumption	290 mA (at 7 V)
Operation Temperature	- 10 to + 60 degree of Celsius
Material of Insertion parts	Interlocking type PVC coated tube
Illumination	1608 LED chip (6 pcs)
Lens	f = 3.4 F5.0
Angle of View	Horizontal 68.8 degree, Vertical 51.6 degree, Diagonal 86 degree
Focus Distance	40 mm to infinity
Waterproofing	Tip part only
Weight (including Battery Case & Battery)	About 700 g
Gross Weight	About 22 kg

#### After-Sales Service

#### After-Sales Service

The manufacture shall repair this product at the manufacture's expense if malfunction occurs during the warranty period (1 year from the date of purchase) under normal usage conditions. Confirm the dealer name, date of purchase, warranty period and other conditions on the warranty card before storing the card for safe keeping.

#### WARRANTY CARD

Model	MSCI - 1000
Serial Number	
Purchase Date	(Day)/ (Month)/ (Year)
Warranty Period	
Your Name	
Company's Address & TEL.	
Name of Retailer's	

Please fulfill all of terms. If not, it may not acceptable for applying warranty, so please check and make sure that nothing are left out.

This CCD Endoscope described on this certified is hereby certified as having passed a stringent quality control and inspection prior shipment. The manufacture shall repair at the manufacture's expense if malfunction occurs during the warranty period under normal usage conditions in accordance with this warranty card.

#### Warranty Regulation

If a malfunction occurs during the warranty period under normal usage conditions, the manufacture will undertake to perform repairs free of charge in conformity.

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