

**PENTAX**

# **URETERORENO CYSTO SCOPES**



**ECY-1570**

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**FCY-15RBS**

**FUR-9RBS**

# PENTAX Ureteroreno and Cysto Scopes for Your Special Clinical Requirements

## VIDEO CYSTOSCOPE

### ECY-1570

MULTI-PURPOSE

COMPATIBLE WITH HIGH-FREQUENCY ACCESSORIES

# VIDEO

The control unit has been redesigned to improve operability. The ECY-1570 can be used with high-frequency accessories. The miniature, high-resolution CCD enables full-screen reproduction of high-resolution images. This video cystoscope features a 5.1mm insertion tube and 2.0mm instrument channel, and dramatically improves observation and diagnostic capabilities, compared with conventional fiberscopes.



#### ● Large Screen, High-Resolution

The unique design of the PENTAX ultra-small, high-resolution CCD chip, has enabled us to increase the number of pixels as compared to previous models. This results in creating outstandingly crisp resolution images. In addition, the level of observation and diagnostic potential has been improved with the wide screen image on the TV monitor.

#### ● Control Unit Designed for Ease of Operation

The system features ergonomically positioned and designed irrigation button and angle levers. The entire control body, including the grip, has been optimized for balance to improve ease of operation. The shape and position of the two frequently used remote buttons (1,2) have been redesigned to allow operation with a single hand.



#### ● Advanced Cleaning and Sterilization Features

The control unit is easy to clean and designed to prevent the accumulation of contaminants and moisture. An all-protective root brace rubber is sealed to prevent intrusion by contaminants or moisture. The irrigation button is autoclavable for easy sterilization.

#### ● Full 340° Deflection Range

The ECY-1570 deflects 220° up and 120° down. This 340° range of deflection is achieved with an extremely tight bending section which permits observation of the Bladder Neck.



#### ● Large 2.0mm Channel

The large 2.0mm channel allows an irrigation flow, even with an accessory in place, to maintain a clear field of view.

#### ● Enhanced Ergonomic Design

In order for the endoscope control section to be held more comfortably, a rotatable PVE connector/plug has been designed. This innovation also lessens hand fatigue caused by umbilical cable strain. The PVE connectors have been redesigned for greater operability.



#### ● Clear Model Designation

The model designation on the control grip shows the instrument channel size. This information is very useful as guidance for the selection of instruments.



	ECY-1570
Field of View	120° (in air) , 80° (in water)
Depth of Field	3~50mm
Tip Deflection	Up220°·Down120°
Distal End	φ5.3mm
Insertion Tube	φ5.1mm
Instrument Channel	φ2.0mm
Working Length	400mm
Total Length	660mm

Example of a system with the EPM-1000 miniature video processor



## PORTABLE CYSTO FIBERSCOPE

### FCY-15RBS

MULTI-PURPOSE

# PORTABLE

The use of a battery-powered light source gives this revolutionary fiber scope true portability. With superb image quality and excellent insertion capability, it represents a major step forward in endoscope usability.



#### ● Large Channel Design

The FCY-15RBS features a 4.9mm insertion tube with a 2.2mm instrument channel, making it the perfect tool for a wide range of tasks, including biopsies and clearing the viewing area of debris. A powerful irrigation system ensures excellent visibility.

#### ● Excellent Distal Deflection and Wide Field of Vision

To facilitate operation and allow rotating observations within the bladder, the scope deflects a remarkable 220° up and 120° down. It also has an extremely wide viewing angle of 125° in air and 83° in water.

#### ● High-Resolution Image Fiber — 40% Improvement

The capacity of the image fiber has been improved by 40%\* to support enhanced precision in observation and diagnosis. The large image size ensures easy, efficient observation.

(\*Compared with previous PENTAX products.)

	FCY-15RBS
Field of View	125° (in air) , 83° (in water)
Depth of Field	3~50mm
Tip Deflection	Up220°·Down120°
Distal End	φ4.9mm
Insertion Tube	φ4.9mm
Instrument Channel	φ2.2mm
Working Length	400mm
Total Length	680mm

## PORTABLE URETERORENO FIBERSCOPE

### FUR-9RBS

MULTI-PURPOSE

# PORTABLE

Without sacrificing performance, this self-illuminating portable fiberscope can easily be used anywhere without the need for an electrical outlet or conventional light source.



#### ● Versatile Light Sources

This unique instrument for urological endoscopic examination offers a variety of illumination options including a detachable battery-powered or AC-operated miniature halogen lamps. Conventional light sources may also be used with an optional fiberoptic cable.

#### ● Slim Design for Easy Operation

The insertion tube of the FUR-9RBS is just 3.1mm in diameter with a 1.2mm instrument channel inside. It has index markings at 100mm from the tip and every 50mm to 650mm thereafter for convenience.

#### ● Waterproof Design and Superb Optics

The FUR-9RBS is fully waterproof, and offers an excellent wide-angle vision with high-quality PENTAX optics.

	FUR-9RBS
Field of View	90° (in air) , 64° (in water)
Depth of Field	1~50mm
Tip Deflection	Up180°·Down180°
Distal End	φ3.0mm
Insertion Tube	φ3.1mm
Instrument Channel	φ1.2mm
Working Length	700mm
Total Length	980mm

# Light Source Versatility

## 1 Self-Contained Battery/Lamp

The use of a lightweight battery-powered miniature lamp eliminates the need for bulky light sources. This cordless and truly portable system is excellent in emergency situations, on a "Crash cart" or whenever space or an electrical source is limited.

### ● Halogen Lamp / Battery Unit



BS-LH1 (Economical Type)



BS-LH2 (High-brightness Type)

## 2 Miniature Lamp with AC Adapter

By simply plugging the AC adapter directly into a regular electrical outlet, you can perform endoscopic procedures at the bedside or on house calls without cumbersome additional light sources.

### ● AC Adapter with Halogen Lamp



BS-LHAC3 (Economical Type)



BS-LHACU/E/B (High-brightness Type)

## 3 Detachable Fiberoptic Cable

By connecting a detachable fiberoptic cable with optional adapters, conventional PENTAX (and other manufacturers') light sources can be used.

### ● Fiberoptic Cable



BS-LC1



### Halogen Lamp/Battery Unit Specifications

		BS-LH2 (High-brightness Type)	BS-LH1 (Economical Type)
Halogen Lamp	Type	BS-H2	LNS-BP310
	Average Life Span	Approx. 20 hours	Approx. 100 hours
	Rating	2.5V 1.8W	3V 1.5W
Lithium Battery	Type	CR123A/DL123A	CR123A/DL123A
	Average Life Span	Approx. 60minutes	Approx. 90minutes

### AC Adapter with Halogen Lamp Specifications

		High-brightness Type			Economical Type
		BS-LHACU	BS-LHACE	BS-LHACB*	BS-LHAC3
Halogen Lamp	Type	BS-H2	BS-H2	BS-H2	LNS-BP310
	Average Life Span	Approx. 20 hours	Approx. 20 hours	Approx. 20 hours	Approx. 100 hours
	Rating	2.5V 1.8W	2.5V 1.8W	2.5V 1.8W	3V 1.5W
Voltage		120V	230V	230V	230V

\* for U.K.

## Total Immersibility



**PENTAX®**

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**PENTAX Medical Company (A Division of PENTAX of America, Inc.)**

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**PENTAX Corporation Medical Division Singapore Branch**

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CAUTION: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician or other appropriately licensed medical professional.

\*Specification and design are subject to change without notice due to product improvement.

\*Printed on recycled paper.