

## i10 Series Endoscopes

Advanced HD+ Visualization

Enhanced Therapeutic Capabilities

Improved Ergonomic Control



# PENTAX Medical i10 Series Endoscopes

## Raising the Standards of Clinical Acceptance

i10 Series Endoscopes provide vivid HD+ imaging when combined with the state-of-the-art EPK-i7010 video processor.



Engineered and designed in partnership with healthcare professionals, the i10 Series Endoscopes provide high-quality, clinically relevant innovation with the intent to improve patient outcomes and reduce healthcare costs.

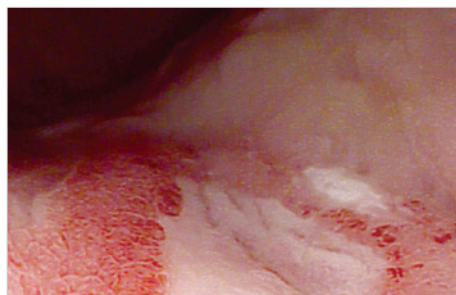
The development of the i10 Series Endoscopes demonstrates PENTAX Medical's commitment to the advancement of quality endoscopy with more therapeutic and specialized treatment capabilities.



Note: Cart availability can vary by region. Cart shown does not reflect what is currently available in the United States.

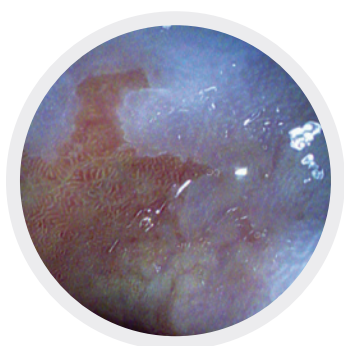
# Advanced HD+ Visualization

High-definition endoscopy has become the standard in clinical care. An increasing number of endoscopists regularly make use of advanced technologies in their daily work. PENTAX Medical surpasses this standard with high definition CCDs and advanced video processing capabilities, for exceptional image clarity and detail resolution.



HD+ High Definition  
imaging of a colon  
with ulcerative colitis

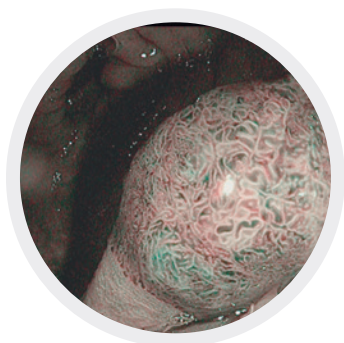
Source: PENTAX Medical Global Image Archive



PENTAX i-SCAN™ mode 2  
Source: PENTAX Medical  
Global Image Archive

## i-SCAN™ Image Enhancement

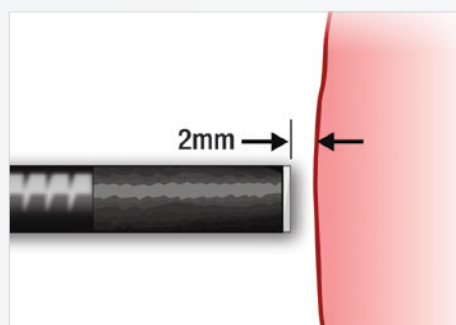
PENTAX i-SCAN™ is a digital, post-processing image enhancement technology that provides the user with an enhanced view of the texture of the mucosal surface and the blood vessels. i-SCAN™ has three different default settings: i-SCAN 1, i-SCAN 2, and i-SCAN 3, all of which can be simply accessed with the touch of a button.



## OE Optical Enhancement

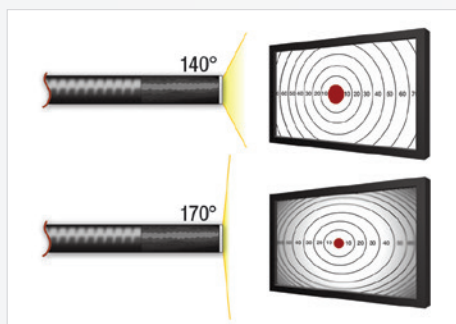
OE Optical Enhancement filters the light source to provide focused wavelength bands that match the high efficiency absorption characteristics of hemoglobin. The resulting effect is a high visual contrast image between blood vessels and surrounding mucosa.

i-SCAN is available with the EPK-i5010 and EPK-i7010 video processor. OE is available with the EPK-i7010 video processor. i-SCAN and OE image enhancement technologies are intended to be used as an optional adjunct following traditional white light endoscopy and is not intended to replace histopathological sampling. i-SCAN and OE are compatible with PENTAX Medical video gastrointestinal endoscopes.



## CloseFocus™ Examination Range

i10 Series Endoscopes with CloseFocus™ Examination Range allow physicians to get as close as 2mm from the mucosa for even greater resolving power and magnified visualization of the tissue and capillary networks. Additionally, this can be achieved automatically without the need for button activation.



## 140° Effective Field of View (EFOV™)

i10 Series Gastrosopes and Colonoscopes are designed with 140-degree Effective Field of View (EFOV™) to optimize the endoscopic view with emphasis on full frame brightness, resolution, and minimized edge distortion. 140-degree EFOV yields greater magnification than other wider-angled endoscope designs for better recognition of even slight changes in mucosal surface within a field of view.



# Enhanced Therapeutic Capabilities



## Larger Instrument Channels

The Standard Gastroscope (EG29-i10) and Slim Standard Colonoscope (EC34-i10L) feature larger instrument channels — 3.2mm and 3.8mm respectively. This results in increased suction power and the opportunity to use larger accessories.

## ERCP Therapeutic Capabilities

The C.A.P. HD Duodenoscope is equipped with a 4.2mm instrument channel and redesigned elevator to enhance stability and address therapeutic needs related to ERCP.

# Improved Ergonomic Control



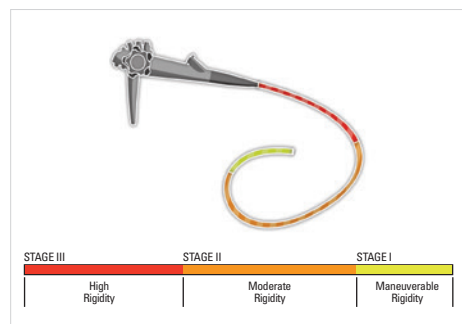
## Ergonomic Control Body

i10 Series Endoscopes are equipped with a new and lightweight ergonomic control body design that provides improved comfort and minimized repetitive use fatigue. It is more compact and lighter — 30g lighter — than its 90i Series predecessor.\* Innovatively designed angulation knobs and a six spoke R/L knob enable comfortable one-handed control, while repositioned buttons facilitate more intuitive access.



## TrueTorque™ Insertion Tube Design

TrueTorque™ Design offers a double coil of proprietary material precisely spaced to efficiently transfer torque from the physician's hand to the scope. Endoscopists typically utilize torque for precision steering through the colon, effectively managing loop formations, and introducing additional stiffness into the scope when advancing through the colon.



## i-FLEX™ Graduated Stiffness Design

i-FLEX Graduated Stiffness has three stages of Insertion Tube rigidity. During colonoscopy procedures, this allows for optimal maneuverability at the distal end when navigating the turns and bends of the colon, as well as increased stiffness in later stages to effectively transfer forward forces to advance the scope and minimize loop formations. This occurs without the need of additional mechanisms to add stiffness into the scope.

\* Note: the C.A.P. HD Duodenoscope control body is 40g lighter than that of its predecessor ED-3490TK

Note: i10 Series Colonoscopes are equipped with TrueTorque and Graduated Stiffness Design.

# i10 Series Endoscopes Overview

## Advanced HD+ Visualization

As trends in gastroenterology continue to drive innovations toward better patient care with the introduction of quality indicator measurements and tracking, image quality remains the common fundamental requirement for clinical acceptance and outcome relevance.

The i10 Series Endoscopes deliver HD+ imaging to support physicians' needs for improved detection and treatment of GI diseases.

## Enhanced Therapeutic Capabilities

With increased pressure to reduce the costs of healthcare delivery, there is a growing demand for interventional endoscopy rather than traditional surgical management of some GI disorders.

The i10 Series Endoscopes are designed to bring more therapeutic capability to the everyday endoscopic procedure. New features, such as larger instrument channels, are intended to expand the physician's device options and support complex skill requirements for therapeutic treatment of GI disorders.

## Improved Ergonomic Control

The endoscopist's daily procedure volume is expanding and putting more strain on the endoscopist to do more cases and reduce procedure times.

The i10 Series Endoscopes are designed with the latest ergonomic control body to better support higher case volumes and overall comfort in the physician's hand. Additionally, PENTAX Medical Insertion Tubes are designed to balance efficiency, consistency, and patient comfort in endoscopy.

### Gastrosopes



#### Standard | EG29-i10

HD+ high definition visualization and greater therapeutic opportunity through a larger 3.2mm instrument channel in a common diagnostic-use gastroscope.

#### Slim | EG27-i10

Slimmer 9.0mm upper GI endoscope with a 2.8mm instrument channel and more acute tip angulation for high definition image resolution and therapeutic access to treatment areas.

### Colonoscopes



#### Standard | EC38-i10L

HD+ high definition image quality and ergonomic design for the support of high quality patient care in both colon cancer screening and therapeutic treatment of other colon disorders.

#### Slim Standard | EC34-i10L

Slimmer, everyday scope for colon cancer screening and treating colon disorders, but with a larger 3.8mm instrument channel to retain the same therapeutic capability and suction power of a 38f colonoscope.

### Duodenoscopes



#### C.A.P. HD Duodenoscope | ED34-i10T

The C.A.P. HD Duodenoscope (ED34-i10T) is designed to improve both routine and advanced ERCP procedures. It features a High Definition CCD for exceptional image clarity, a detachable, single-use Distal Cap for innovative reprocessing capabilities, as well as a new elevator design and control body for improved clinical control.



# Raising the Standards of Clinical Acceptance

Demonstrating PENTAX Medical's commitment to the advancement of quality endoscopy with more therapeutic and specialized treatment capabilities, with the intent to improve patient outcomes and reduce healthcare costs.



Model Number	Product Description	Channel Diameter (mm)	Insertion Tube Diameter (mm)	Working Length (mm)	Up/Down Angulation (°)	Right/Left Angulation (°)	Angle of View (°)	Depth of Field (mm)	Forward Water Jet	Image Type
<b>Gastrosopes</b>										
EG29-i10	Standard	3.2	9.8	1,050	210/120	120/120	140	2-100 (Close-Focus™)	Y	Video
EG27-i10	Slim	2.8	9.0	1,050	210/120	120/120	140	2-100 (Close-Focus™)	-	Video
<b>Colonoscopes</b>										
EC38-i10L	Standard	3.8	13.2	1,700	180/180	160/160	140	4-100	Y	Video
EC34-i10L	Slim Standard	3.8	11.6	1,700	180/180	160/160	140	2-100 (Close-Focus™)	Y	Video
<b>Duodenoscopes</b>										
ED34-i10T	C.A.P. HD	4.2	11.6	1,250	120/90	105/90	100 (retro 10)	4-60	-	Video

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**MEDICAL**

MK-618 Rev: E