RetroView colonoscopes
A high degree of flexibility
PENTAX Medical GI integrated offer
Along the clinical pathway

Orientation
- HD+
- i-scan SE
- i-scan TE
- Preset i-scan
- Twin mode

Detection
- NaviAid™ AB

Characterisation
- WavSTAT4
- EUS
- i10 series

Verification / Confirmation
- EM
- EUS
- RetroView

Therapy
- ESD
- RetroView
- G-EYE™

Clinical Background
- Positioning
- Product
- Clinical Application
- Technical Details
- Summary
- Services
The biggest diagnostic challenge in colonoscopy is to improve dysplasia detection and **reduce the miss rate** in detection of polyps and adenomas to prevent colorectal cancer (CRC), especially in the proximal colon.

Detected lesions need to be carefully characterized for a successful therapy.
Main Challenge
Early detection

Cancer deaths worldwide

Colorectal malignancies is one of the leading causes of cancer-related deaths in the world. The early detection and timely removal of preneoplasms has been demonstrated to significantly improve patient survival.

Clinical Background

Positioning

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Technical Details

Summary

Services

Main Opportunities

Advanced detection and therapy

Clinical studies have shown potential opportunity for colonoscope reflection to improve adenoma detection rates and assist in more complete removal of adenomatous polyps.

RetroView, EC-3490Ti colonoscopes has been developed to support not only detection but also advanced therapy. This is due to high degree of flexibility to reach difficult location and a more complete removal of adenomatous polyps.
Our Promise
RetoView, a high degree of flexibility

With PENTAX Medical RetroView HD+ colonoscopes the combination of both detection and therapy of hard to reach lesions can now be undertaken.

RetroView colonoscope, for advanced detection and therapy.
Key Benefits

Features

Excellent manoeuvrability
Graduate flexibility (GDF)
Improved HD+ image quality
Advanced detection
Advanced therapy

RetroView
EC-3490Ti
Key Benefits
RetroView EC-3490Ti

1. Excellent manoeuvrability

A unique approach while navigating tight turns. Excellent manoeuvrability due to 210° deflection and minimize bending radius of the distal tip.

2. Advanced therapy

It provides a perfect combination of flexibility of the endoscope tip and stability of the endoscope body, thus providing a valuable contribution to secure EMR or ESD.

EC-3490TLi Video Colonoscope – RetroView™

EC-3490Li Video Colonoscope – Slim

Clinical Application
Technical Details
Summary
Services
### Key Benefits

#### RetroView EC-3490Ti

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Advance detection</td>
<td>Outstanding combination of deflection (210°), visualization capability (HD+) and <strong>excellent illumination</strong> in combination with <strong>i-scan</strong> for better orientation and detection.</td>
</tr>
<tr>
<td>4</td>
<td>Improved HD+ image quality</td>
<td>Next generation megapixel CCD for improved HD+ image quality. Crisp, clear and bright endoscopic image combined with exceptional field of view for a <strong>superior visualisation of the mucosa</strong>.</td>
</tr>
<tr>
<td>5</td>
<td>Graduate flexibility (GDF)</td>
<td>Graduate flexibility of the insertion tube to increase <strong>patient comfort</strong> and examination performance during every colonoscopy.</td>
</tr>
</tbody>
</table>
Product overview
For best clinical results

RetroView EC-3490Ti is compatible with

RetroView EC-3490TMi / Fi / Li

* Available in different working lengths
  (L = 1,700 mm, F = 1,700 mm, M = 1,300 mm)
Clinical Application

Detect and characterise

RetroView a high degree of flexibility with 210° deflection

Procedure related

- Enhance manoeuvrability in tight spaces
- Improved therapeutic access due to enhanced functionality
- Better visualization of the mucosa behind folds by examining the proximal colon and caecum in a RetroView function
- Intubating Terminal Ilium

Patient related

- Patient with acute sigmoid colon or redundant colon
- Polypectomies in difficult to reach locations
- Endoscopic Submucosal Dissection (ESD)
- Endoscopic Mucosal Resection (EMR)
- Patients with Irritable Bowel or Crohn’s Disease
Enhance your endoscopic options with HD+ and i-scans setting

**HD+**
- Flat lesion
  - Fast detection with significant improvement in the visibility and evaluation of minute lesions
  - Integrated zoom function for more detailed inspection

**i-scan**
- Surface Enhancement
  - i-scan SE retains the natural colour tones
  - Accentuation of tissue structures
  - Mucosal enhancement potentially supports the detection of flat lesions
- Tone Enhancement
  - Allows more accentuated display of mucosal structures which may support lesion characterization
  - Virtual chromoendoscopy may help to improve endoscopic diagnosis
I am convinced that this scope could be an excellent answer to the missed adenomas especially on the right side of the colon.«

Dr. Kiesslich
St. Marien Hospital, Frankfurt, Germany

The new PENTAX EC-3490Ti is an excellent colonoscope for advanced work in difficult to reach locations. Its image quality exceeds my expectations and the new 210° distal tip angulation in conjunction with the tighter bend radius mean it has the tip control needed to easily carry out complex therapeutic procedures, including EMR/ESD.«

Dr. Booth
Royal Berkshire NHS Foundation Trust, UK

Procedure of mucosal resection in particular in the right colon by using retroflexion is easy.«

Dr. Giovannini
Institut Paoli-Calmettes, Marseille, France

VERY POSITIVE – many doctors of the team prefer this scope compared to the standard colonoscope.«

Dr. De Grazia
Ospedale Maggiore Di Crema, Italy
**RetroView EC-3490Ti**

Specifications (1 / 2)

<table>
<thead>
<tr>
<th>Specs</th>
<th>EC-3490TLi</th>
<th>EC-3490TFi</th>
<th>EC-3490TMi</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direction of view</strong></td>
<td>Forward</td>
<td>Forward</td>
<td>Forward</td>
</tr>
<tr>
<td><strong>Field of view (°)</strong></td>
<td>140</td>
<td>140</td>
<td>140</td>
</tr>
<tr>
<td>Depth of field (mm)</td>
<td>3 ~ 100</td>
<td>3 ~ 100</td>
<td>3 ~ 100</td>
</tr>
<tr>
<td>Right / Left</td>
<td>160 – 160</td>
<td>160 – 160</td>
<td>160 – 160</td>
</tr>
<tr>
<td>Ø Right distal width (mm)</td>
<td>10.5</td>
<td>10.5</td>
<td>10.5</td>
</tr>
<tr>
<td>Ø Distal end width (mm)</td>
<td>10.5</td>
<td>10.5</td>
<td>10.5</td>
</tr>
<tr>
<td>Ø Insertion tube width (mm)</td>
<td>11.6</td>
<td>11.6</td>
<td>11.6</td>
</tr>
</tbody>
</table>
## RetroView EC-3490Ti
### Specifications (2 / 2)

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</thead>
<tbody>
<tr>
<td>Ø Max. insertion portion width (mm)</td>
<td>12.85</td>
<td>12.85</td>
<td>12.85</td>
</tr>
<tr>
<td>Ø Min. instrument channel width (mm)</td>
<td>3.2</td>
<td>3.2</td>
<td>3.2</td>
</tr>
<tr>
<td>Insertion tube working length (mm)</td>
<td>1,700</td>
<td>1,500</td>
<td>1,300</td>
</tr>
<tr>
<td>Total length (mm)</td>
<td>2,023</td>
<td>1,823</td>
<td>1,623</td>
</tr>
</tbody>
</table>
PENTAX Medical RetroView HD+ colonoscopes with deflection ability of up to 210° and shorter bending section offers a perfect combination for both detection and therapy of difficult to reach lesions.
Services
Our portfolio

- **Personal Consultancy**
  - Advice and guidance in support of customers' performance, e.g.
    - Process change
    - Operational efficiency analysis
    - Total cost of ownership
    - Hygiene

- **Contract Maintenance**
  - Portfolio of maintenance solutions that offers customers both guaranteed reliability and budget security, e.g.
    - i-Trust
    - Pay-per-use
    - Rental

- **Premium Repair Service**
  - Absolute quality guarantee and a fast repair turnaround time whilst keeping you up and running:
    - Loaner program
    - Original spare parts
    - Small repairs on site
    - Extensive repair network

- **Individual Training**
  - Personalized training to support customers with our know-how and experience, e.g.
    - Damage prevention
    - Reprocessing and hygiene
    - Scope handling and troubleshooting

Click here for more: https://network.pentaxmedical.eu