
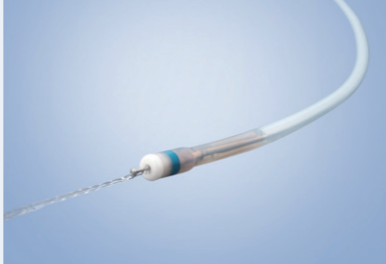









# Latest Medical Devices

BU	Model	Main diagnosis and treatment department	Photograph	Availability	Features	Competitors	
GIRBU	<p>EVIS EXERA III (Mainly for Europe and America)</p> <p>EVIS LUCERA ELITE (Mainly for Japan)</p>	Gastroenterology		<ul style="list-style-type: none"> <li>- Japan: From November 2012</li> <li>- America: From April 2012</li> <li>- Europe: From April 2012</li> <li>- Other markets: Upon regulatory approval (China: From September 2014)</li> </ul>	<ul style="list-style-type: none"> <li>- Visualizes organ tissue with bright NBI images for detailed observation.</li> <li>- Dual Focus function supports more reliable diagnosis by allowing instant magnification of suspect sites while still providing a wide-angle view.</li> <li>- Improved performance of insertion section and passive bending section makes colonoscopy insertion process easier for both doctor and patient.</li> <li>- Fully waterproof single-action design simplifies examination preparation and cleaning / disinfection process. Reduces workload for doctors and co-medicals.</li> </ul> <p>&lt; Differences between EXERAIII &amp; LUCERA &gt;                      Different sales region due to different image system                      LUCERA =&gt; Mainly sold in Japan (designed for still images)                      EXERA =&gt; Mainly sold in Europe and America (designed for video images)</p>	<ul style="list-style-type: none"> <li>- FUJIFILM Medical Co., Ltd.</li> <li>- HOYA CORPORATION</li> </ul>	
	EU-ME2		<p>Endoscopic Ultrasound Center</p> 	<ul style="list-style-type: none"> <li>- Japan: From September. 2013</li> <li>- America: From May. 2014</li> <li>- Europe: From September. 2013</li> <li>- Other markets: Upon regulatory approval</li> </ul>	<ul style="list-style-type: none"> <li>- Fine tunes the ultrasound transmission / reception process, thereby realizing higher resolution images than conventional products.</li> <li>- Supports better detection and characterization of lesions such as tumor and blood flow, contributing to determination of treatment policy.</li> <li>- Various functions such as tissue harmonic echo (noise reduction) and elastography are available.</li> </ul>		
	<p>OER-3 (For Japan)</p> <p>OER-Pro (For America)</p> <p>OER-AW (For Asia/Oceania)</p>			<ul style="list-style-type: none"> <li>- Japan: From December. 2006</li> <li>- America: From March. 2008</li> <li>- Europe: Different type of washing and disinfecting machine released</li> <li>- Other markets: From December. 2007 (released in some markets)</li> </ul>	<ul style="list-style-type: none"> <li>- Able to simultaneously disinfect two scopes.</li> <li>- Washing history function to support medical risk management.</li> <li>- Capable of either using a ready-to-use disinfectant or a concentrated disinfectant sealed in dedicated cassette bottles.</li> <li>- Washing and disinfecting functions take account of endoscope structure.</li> </ul>		<ul style="list-style-type: none"> <li>- ASP, Johnson &amp; Johnson (USA)</li> <li>- STERIS (USA)</li> <li>- Medivators (USA)</li> <li>- Wassenburg &amp; CO BV (Germany)</li> </ul>
	Single-Use Guidewire		VisiGlide 2™		<ul style="list-style-type: none"> <li>- Japan: From June 2014</li> <li>- America: From October. 2014</li> <li>- Europe: From October. 2014</li> <li>- Other markets: Upon regulatory approval</li> </ul>		<ul style="list-style-type: none"> <li>- Instrument for gaining entry into the pancreatic or bile duct from duodenal papilla. Because the pancreatic duct and bile duct are among the most difficult organs in the digestive tract to access, a separate pancreatic and bile duct instrument are used after first inserting this guide wire to determine the route.</li> <li>- Wire tips that are both flexible and firm provide smooth access to the pancreatic or bile duct.</li> </ul>
Single-Use Repositionable Clip	QuickClip Pro™		<ul style="list-style-type: none"> <li>- Japan: From November. 2014</li> <li>- America: From August. 2014</li> <li>- Europe: From September. 2014</li> <li>- Other markets: Upon regulatory approval</li> </ul>	<ul style="list-style-type: none"> <li>- The clips can be repositioned being rotatable and having a reliable opening width.</li> <li>- Well-regarded ability to rotate 360 degrees facilitates clipping at appropriate point for halting bleeding.</li> </ul>			

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GIRBU	ITKnife2™	Gastroenterology		<ul style="list-style-type: none"> <li>- Japan: From January. 2007</li> <li>- America: From August. 2011</li> <li>- Europe: From February. 2007</li> <li>- Other markets: Upon regulatory approval</li> </ul>	<ul style="list-style-type: none"> <li>- Electrodes radiate in three directions from knife tip.</li> <li>- Dramatic improvement in ease of lateral cutting. Helps achieve efficient ESD thanks to improvement in ease of cutting from vertical direction.</li> <li>* ESD: Endoscopic Submucosal Dissection</li> </ul>	<ul style="list-style-type: none"> <li>· Boston Scientific (USA)</li> <li>· Cook Medical (USA)</li> </ul>
	DualKnifeJ™			<ul style="list-style-type: none"> <li>- Japan: From October. 2015</li> <li>- America: To be determined</li> <li>- Europe: From October. 2015</li> <li>- Other markets: Upon regulatory approval</li> </ul>	<ul style="list-style-type: none"> <li>- Two different models of knife are available with different cutting lengths and effective sheath lengths to enable combined use for upper intestinal tract and bowel respectively.</li> <li>- New fluid delivery function enables injections to be performed without needing to swap the device for a syringe. Helps achieve more accurate ESD and shorter procedure times.</li> <li>* ESD: Endoscopic Submucosal Dissection</li> </ul>	
	HookKnifeJ™			<ul style="list-style-type: none"> <li>- Japan: From October. 2015</li> <li>- America: To be determined</li> <li>- Europe: From October. 2015</li> <li>- Other markets: Upon regulatory approval</li> </ul>	<ul style="list-style-type: none"> <li>- Use of tip hook to pull up the mucosa for cutting means cutting and peeling can be performed from both lateral and vertical directions.</li> <li>- Ability to rotate enables cutting and peeling to be supported correctly in the desired direction, helping achieve more accurate ESD and shorter procedure times.</li> <li>* ESD: Endoscopic Submucosal Dissection</li> </ul>	
GSBU	4K Surgical Endoscopy System	General Surgery Digestive Surgery Respiratory Surgery Urologic Surgery Gynecologic Surgery Otorhinology		<ul style="list-style-type: none"> <li>- Japan: From October. 2015</li> <li>- America: From March. 2016</li> <li>- Europe: From October. 2015</li> <li>- Other markets: Upon regulatory approval</li> </ul>	<ul style="list-style-type: none"> <li>- Entire imaging chain is optimized for 4K, producing enhanced visibility with an extremely bright image.</li> <li>- Utilizing an expanded color space, this system can display over 1 billion colors compared to conventional imaging systems that produce roughly 16 million colors.</li> <li>- 4K enables the use of a large primary operative display enlarging ultra-high definition images for greater clarity and therefore accuracy.</li> </ul>	<ul style="list-style-type: none"> <li>· Karl Storz (Germany)</li> <li>· Stryker (USA)</li> <li>· Richard Wolf (Germany)</li> <li>· Arthrex (USA)</li> </ul>

BU	Model		Main diagnosis and treatment department	Photograph	Availability	Features	Competitors
GSBU	Surgical Endoscope System	VISERA ELITE II	General Surgery Digestive Surgery Respiratory Surgery Urologic Surgery Gynecologic Surgery Otorhinology		- Japan: From March. 2017 - America: To be determined - Europe: From March. 2017 - Other markets: Upon regulatory approval	- The system supports a variety of different imaging modes, including IR*, NBI, 3D, and 2D as well as white light imaging, helping reduce the risk of complications and shorten surgery times. - The new model has a much more compact design than its conventional products by combining the processor, light source, and 3D image processing unit into one box (both size and weight reduced by about 30%). - Features that facilitate theater operation include adopting a touch panel and LED light source, making the camera head and scope easier to use, and simplifying maintenance. By helping make workflows more efficient, these maximize the quality of treatment by providing an environment in which medical and other staff can focus on the surgery.  * IR imaging Because it can provide a real time indication of things that are difficult to view under white light, such as identifying lymph and bile ducts or judging blood flow in blood vessels, the efficacy of IR imaging is currently a subject of study in the medical field.	- Karl Storz (Germany) - Stryker (USA) - Richard Wolf (Germany) - Arthrex (USA)
	Integrated Surgical Device with Advanced Bipolar and Ultrasonic Energy	THUNDERBEAT	General Surgery Digestive Surgery Respiratory Surgery Urologic Surgery Gynecologic Surgery		- Japan: From October 2013 - America: From May 2012 - Europe: From March 2012 - Other markets: Upon regulatory approval (China: From September 2015)	- Combines excellent hemostatic capabilities (controlling bleeding) of bipolar high-frequency energy with precise dissection of ultrasonic energy. - A single device capable of multiple tasks, vessel sealing, hemostasis, coagulation, incision speed and dissection meet surgeon's demands for superior medical effectiveness.	- Ethicon Endo-Surgery, Inc (USA) - Medtronic (USA) - Applied Medical (USA)
UGBU	Cysto-Nephro Videoscope	CYF-VHA	Urology		- Japan: From October. 2011 - America: From October. 2011 - Europe: From February. 2012 - Other markets: Upon regulatory approval	- Built-in CCD compatible with High-Definition (HDTV). Contributing to improvement of diagnostic accuracy of cystoscopy by white light, NBI by high-definition image. - Supports minimized patient discomfort when inserting the endoscope by making the distal end (evolutiontip) of the scope thinner and smoother.	- Karl Storz (Germany) - Richard Wolf (Germany) - Boston Scientific (USA) - Cook Medical (USA) - CR. Bard (USA)
	Resectoscope System	OES ELITE	Urology Gynecology		- Japan: From September. 2015 - America: From April. 2016 - Europe: From January. 2015 - Other markets: Upon regulatory approval	- Lightest resectoscope on the market (at this time) achieved through choice of materials and manufacturing techniques. - New design provides dramatically improved balance. This supports reduced fatigue and makes the resectoscope even easier to use during surgery. - Use of an elliptical outer sheath supports minimized patient discomfort. - Chromatic aberration reduced by use of extra-low dispersion (ED) lens. Higher contrast and less color bleeding than the conventional products.	
ENTBU	Multidebrider	DIEGO ELITE	Rhinology		- Japan: From July. 2015 - America: From September. 2013 - Europe: From September. 2013 - Other markets: Upon regulatory approval	- In endoscopic sinus surgery, resection, suction and cutting of tissue such as sinus mucosa and nasal bone are performed, and opens the natural orifice of each paranasal sinus. - Contributes to prompt hemostasis operation by blades equipped with Bi-polar and Mono-polar energy. - "Declog System" to quickly eliminate tissue clogging inside the blade contributes to shortening of operation time.	- Medtronic (USA)