

Endoscope Overview

2022



The Future of Endoscopy Has Arrived.

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Medical Endoscopes

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Medical Endoscopes

Medical Video Endoscopes										
	Insertion Tube OD (mm)	Distal End OD (mm)	Channel ID (mm)	Bending (Up/Down)	Bending (Left/Right)	Working Length (mm)	Field of View	Depth of Field (mm)	IEE ²	Comments
Video Gastrosopes										
GIF-EZ1500 ^x	9.6	9.9	2.8	210°/90°	100°/100°	1030	140°	1.5 - 5.5 (near) 3 - 100	NBI, TXI, RDI	EDOF, ErgoGrip, DF, OT, WJ, HDTV
GIF-XZ1200 [*]	9.9	9.9	2.8	210°/90°	100°/100°	1030	87° (tele) 140°	1.5 - 3.0 (tele) 7 - 100	NBI, TXI ¹ , RDI ¹	ErgoGrip, OT, WJ, HDTV, Zoom
GIF-1100 [•]	8.9	8.9	2.8	210°/90°	100°/100°	1030	140°	2 - 100	NBI, TXI ¹ , RDI ¹	ErgoGrip, CF, OT, WJ, HDTV
GIF-HQ290 [*]	9.9	10.2	2.8	210°/90°	100°/100°	1030	140° (near) 140° (normal)	3 - 7 (near) 7 - 100 (normal)	NBI, TXI ¹ , RDI ¹	DF, OT, WJ, HDTV
GIF-H290Z [*]	9.6	9.9	2.8	210°/90°	100°/100°	1030	95° (tele) 140° (wide)	1.5 - 3 (tele) 7 - 100 (wide)	NBI, TXI ¹ , RDI ¹	Zoom, OT, WJ, HDTV
GIF-H290T [*]	9.6	9.8	3.2	210°/120°	100°/100°	1030	140°	3 - 100	NBI, TXI ¹ , RDI ¹	OT, WJ, HDTV
GIF-1TH190 [•]	10.9	10.0	3.7	210°/90°	100°/100°	1030	140°	2 - 100	NBI, TXI ¹ , RDI ¹	CF, OT, WJ, HDTV
GIF-H290EC [*]	9.6	9.7	2.2	210°/90°	100°/100°	1030	140°	7 - 100	NBI, TXI ¹ , RDI ¹	OT, WJ, HDTV, EC
GIF-H290 [*]	8.9	8.9	2.8	210°/90°	100°/100°	1030	140°	3 - 100	NBI, TXI ¹ , RDI ¹	OT, HDTV
GIF-H190N [•]	5.8	5.4	2.2	210°/90°	100°/100°	1100	140°	3 - 100	NBI, RDI ¹	OT, HDTV, HF-compatible
GIF-XP290N [*]	5.8	5.4	2.2	210°/90°	100°/100°	1100	140°	3 - 100	NBI, RDI ¹	OT, HF- compatible
GIF-PQ260 ^{**}	7.7	7.9	2.0	210°/90°	100°/100°	1030	140°	3 - 100	NBI	—
GIF-FQ260Z ^{**}	10.5	11.0	2.8	210°/90°	100°/100°	1030	60° (tele) 140° (wide) 140° (AFI)	2 - 3.5 (tele) 7 - 100 (wide) 7 - 100 (AFI)	—	AFI, Zoom
GIF-2TQ260M ^{**}	11.7	11.7	2 x 3.2	210°/90° Sec.: 70°/70°	100°/100°	1030	140°	3 - 100	NBI	WJ, Multi-bending
GIF-2T240	11.8	11.8	3.7/2.8	210°/90° Sec.: 70°/70°	100°/100°	1030	120°	3 - 100	—	HF-compatible

^x with CV-1500 only
^{*} with CV-290 and CV-1500 only ^{**} with CV-260SL or higher
[•] with CV-190 (PLUS) and CV-1500 only
¹ only when connected to CV-1500 ² Image-Enhanced Endoscopy

OT = One-touch Connector DF = Dual Focus WJ = WaterJet
EC = Endocytoscope AFI = Auto-Fluorescence Imaging
EDOF = Extended Depth of Focus

Medical Endoscopes

	Insertion Tube OD (mm)	Distal End OD (mm)	Channel ID (mm)	Bending (Up/Down)	Bending (Left/Right)	Working Length (mm)	Field of View	Depth of Field (mm)	IEE ²	Comments
Video Colonoscopes										
CF-EZ1500DL/I*	12.8	13.2	3.7	180°/180°	160°/160°	1680/1330	160° (near) 170°	1.5 - 5.5 (near) 3 - 100	NBI, TXI ¹ , RDI	EDOF, ErgoGrip, DF, OT, RIT, SG, WJ, HDTV
CF-XZ1200L/I*	12.8	13.2	3.7	180°/180°	160°/160°	1680/1330	90° (tele) 170°	1 - 2 (tele) 7 - 100	NBI, TXI ¹ , RDI ¹	ErgoGrip, OT, RIT, WJ, HDTV, Zoom
CF-HQ1100DL/I*	12.8	13.2	3.7	180°/180°	160°/160°	1680/1330	160° (near) 170°	2 - 6 (near) 5 - 100	NBI, TXI ¹ , RDI ¹	ErgoGrip, DF, OT, RIT, SG, WJ, HDTV
CF-HQ290L/I*	12.8	13.2	3.7	180°/180°	160°/160°	1680/1330	160° (near) 170° (normal)	4 - 9 (near) 9 - 100 (normal)	NBI, TXI ¹ , RDI ¹	DF, OT, RIT, SG, WJ, HDTV
CF-HQ290ZL/I*	12.8	13.2	3.7	180°/180°	160°/160°	1680/1330	90° (tele) 170° (wide)	2 - 3 (tele) 7 - 100 (wide)	NBI, TXI ¹ , RDI ¹	OT, RIT, WJ, HDTV, Zoom
CF-H290ECI*	12.8	12.8	3.2	180°/180°	160°/160°	1330	140°	7 - 100	NBI, TXI ¹ , RDI ¹	OT, RIT (HFT, VS), WJ, HDTV, EC
CF-H290L/I*	12.0	12.2	3.2	180°/180°	160°/160°	1680/1330	170°	5 - 100	NBI, TXI ¹ , RDI ¹	OT, RIT, WJ, HDTV
PCF-H290DL/I*	11.8	11.7	3.2	180°/180°	160°/160°	1680/1330	170°	5 - 100	NBI, TXI ¹ , RDI ¹	OT, RIT, SG, WJ, HDTV
PCF-H290ZL/I*	11.8	11.7	3.2	180°/180°	160°/160°	1680/1330	85° (tele) 170° (wide)	1 - 2 (tele) 7 - 100 (wide)	NBI, TXI ¹ , RDI ¹	HDTV, OT, RIT, WJ, Zoom
PCF-H290L/I*	11.5	11.7	3.2	180°/180°	160°/160°	1680/1330	170°	5 - 100	NBI, TXI ¹ , RDI ¹	OT, RIT, WJ, HDTV
PCF-H290TL/I*	10.5	9.8	3.2	210°/180°	160°/160°	1680/1330	140°	5 - 100	NBI, TXI ¹ , RDI ¹	CF, OT, RIT (HFT, VS), WJ, HDTV
PCF-HQ190L/I*	12.0	11.8	3.2	180°/180°	160°/160°	1680/1330	170°	2 - 6 (near) 5 - 100	NBI, TXI ¹ , RDI ¹	DF, OT, RIT, SG, WJ, HDTV
PCF-PH190DL/I*	9.5	9.7	3.2	180°/180°	160°/160°	1680/1330	140°	2 - 100	NBI, TXI ¹ , RDI ¹	CF, OT, RIT, (HFT, PB), HDTV
CF-FH260AZL**	13.2	14.8	3.2	180°/180°	160°/160°	1680	80° (tele) 140° (wide) 140° (AFI)	2 - 3 (tele) 7 - 100 (wide) 5 - 100 (AFI)	NBI	HDTV, AFI, WJ, Zoom, VS
PCF-PQ260L**	9.2	9.2	2.8	180°/180°	160°/160°	1680	140°	5 - 100	NBI	RIT (HFT, PB)

* with CV-1500 only • with CV-190 (PLUS) and CV-1500 only
 * with CV-290 and CV-1500 only ** with CV-260SL or higher
¹ only when connected to CV-1500 ² Image-Enhanced Endoscopy

OT = One-touch Connector DF = Dual Focus EDOF = Extended Depth of Focus
 WJ = WaterJet RIT = Responsive Insertion Technology SG = ScopeGuide
 VS = Variable Stiffness HFT = High Force Transmission PB = Passive Bending
 EC = Endocytoscopy AFI = Auto-Fluorescence Imaging CF = Close Focus

Medical Endoscopes

	Insertion Tube OD (mm)	Distal End OD (mm)	Channel ID (mm)	Bending (Up/Down)	Bending (Left/Right)	Working Length (mm)	Field of View	Depth of Field (mm)	IEE ²	Comments
Video Duodenoscopes										
TJF-Q290V*	11.3	13.5	4.2	120°/90°	110°/90°	1240	100°/15° (retro)	5 - 60	NBI, TXI ¹ , RDI ¹	OT, HFT, V-System
TJF-260V**	11.3	13.5	4.2	120°/90°	120°/90°	1240	100°	5 - 60	NBI	V-System
JF-260V**	11.3	12.6	3.7	120°/90°	120°/90°	1240	100°	5 - 60	NBI	V-System
Video Choledochoscopes										
CHF-B290*	3.53 [‡]	3.3	1.3	70°/70°	—	1920	80°	1.5 - 20	NBI, RDI ¹	CF, OT, Baby scope
CHF-V	5.2	4.9	2.0	160°/130°	—	380	120°	3 - 50	NBI	—
Video Enteroscopes										
PSF-1*	11.5 ^{§§}	11.3	3.2	180°/180°	160°/160°	1680	140°	2 - 100	NBI, TXI ¹ , RDI ¹	OT, WJ, motorized spiral enteroscope
SIF-H190*	9.2	9.2	3.2	180°/180°	160°/160°	2000	140°	3 - 100	NBI, TXI ¹ , RDI ¹	OT, RiT (HFT, PB), HDTV
SIF-H290S*	9.2	9.2	3.2	180°/180°	160°/160°	1520	140°	3 - 100	NBI, TXI ¹ , RDI ¹	OT, RiT (HFT, PB), HDTV
SIF-Q260**	9.2	9.2	2.8	180°/180°	160°/160°	2000	140°	5 - 100	NBI	—
Capsule Endoscope										
EC-S10***	11.0	11.0	—	—	—	26	160°	0 - 20	—	—

* with CV-290 and CV-1500 only ** with CV-260SL or higher
*** with EC-10 ENDOCAPSULE system only
• with CV-190 (PLUS) and CV-1500 only
[‡] 3.75 mm from the proximal end to 1390 mm
^{§§} 12.8 mm from the proximal end to rotation part
¹ only when connected to CV-1500 ² Image-Enhanced Endoscopy

OT = One-touch Connector RiT = Responsive Insertion Technology
WJ = Water Jet HFT = High Force Transmission PB = Passive Bending

Medical Endoscopes

	Insertion Tube OD (mm)	Distal End OD (mm)	Channel ID (mm)	Bending (Up/Down)	Rotation Function (Left/Right)	Working Length (mm)	Field of View	Depth of Field (mm)	IEE ²	Comments
Video Bronchoscopes										
BF-1TH1200*	6.1	5.8	3.0	180°/130°	120°/120°	600	120°	3 - 100	NBI, TXI ¹ , RDI ¹	HDTV, OT, ROTATION FULLSCREEN ¹
BF-H1200*	4.9	4.9	2.2	210°/130°	120°/120°	600	120°	3 - 100	NBI, TXI ¹ , RDI ¹	HDTV, OT, ROTATION FULLSCREEN ¹
BF-X190*	6.3	6.1	3.2	180°/130°	120°/120°	600	110°	2 - 50	NBI, TXI ¹ , RDI ¹	OT
BF-1TQ290*	6.0	5.9	3.0	180°/130°	120°/120°	600	120°	2 - 100	NBI, TXI ¹ , RDI ¹	OT, ROTATION
BF-H290*	5.7	6.0	2.0	210°/130°	120°/120°	600	120°	3 - 100	NBI, TXI ¹ , RDI ¹	HDTV, OT, ROTATION
BF-Q290*	4.9	4.8	2.0	210°/130°	120°/120°	600	120°	2 - 100	NBI, TXI ¹ , RDI ¹	OT, ROTATION
BF-P290*	4.1	4.2	2.0	210°/130°	120°/120°	600	110°	2 - 50	NBI, TXI ¹ , RDI ¹	OT, ROTATION
BF-MP290F*	3.7	3.0	1.7	210°/130°	120°/120°	600	90°	2 - 50	TXI ¹	OT, ROTATION
BF-XP290*	2.8	3.1 ⁰	1.2	210°/130°	120°/120°	600	110°	2 - 50	NBI, TXI ¹ , RDI ¹	OT, ROTATION
BF-F260**	5.4	5.5	2.0	180°/130°	—	600	120°	3 - 100	AFI	—
Airway Mobilescopes										
MAF-TM2	5.2	5.1	2.6	180°/130°	—	600	90°	3 - 50	—	Display rotation: 90° right /90° left tilting: 0-120° Display size: 3.5"
MAF-GM2	4.1	3.9	1.5	120°/120°	—	600	90°	4 - 50	—	
MAF-DM2	3.1	3.1	1.2	120°/120°	—	600	90°	2 - 50	—	
Video Pleuroscopes (Medical Thoracoscopy)										
LTF-260**	7.0	6.9	2.8	160°/130°	—	270	120°	3 - 100	NBI	Autoclavable
LTF-H290*	7.0	7.3	3.0	180°/130°	—	270	120°	7 - 100	NBI, TXI ¹ , RDI ¹	HDTV, OT

*with CV-290 and CV-1500 only **with CV-290/-260SL only

⁰ tapered part of distal end 2.9 mm

¹ only when connected to CV-1500 ² Image-Enhanced Endoscopy

OT = One-touch Connector ROTATION = Insertion Tube Rotation Function
AFI = Auto-Fluorescence Imaging

Medical Endoscopes

Medical Fiber Endoscopes									
	Insertion Tube OD (mm)	Distal End OD (mm)	Channel ID (mm)	Bending (Up/Down)	Bending (Left/Right)	Working Length (mm)	Field of View	Depth of Field (mm)	Comments
Fiber Bronchoscopes									
BF-1T60	6.0	5.9	3.0	180°/130°	—	600	120°	3 - 50	—
BF-P60	5.0	4.9	2.2	180°/130°	—	600	120°	3 - 50	—
BF-XP60	2.8	2.8	1.2	180°/130°	—	600	90°	2 - 50	—
BF-N20	2.2	1.8	—	160°/90°	—	550	75°	2 - 50	—

Endoscopy Integration

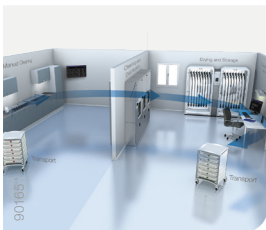
Olympus' systems offer a complete platform of solutions for endoscopy, consisting of modular components that are combined to meet the individual needs of the hospital. Utmost support throughout the workflow from patient reception to the examination, via the reprocessing and recovery areas, ending in the doctor's office and training room facilities.



Examination Room

A high level of ergonomics, efficiency, and communication in a modern and friendly ambience.

- Optimized workspace and patient comfort
- Integrated HD documentation system
- Saving space, examination, and cleaning time



Reprocessing Area

Hygiene supports and secures the endoscope's workflow with full traceability and documentation of all relevant reprocessing steps.

- ETD Double, ETD4 and ETD Mini washer disinfectors
- EDC Plus drying and storage cabinets
- ETS Plus and PROTECH protective solutions for storage and transportation
- Hytrack endoscope reprocessing documentation software



Recovery Area

Patient comfort and safety in perfection – a central overview of the status of the rooms, support smooth processes and a stressless atmosphere.

- Access to status of endoscopy room
- Patient-care documentation for recovery nurse



Doctor's Office

In the office but with an optimal audio/video connection to the examination rooms. Access from the PC to all data and images and reporting system.

- Access to centralized patient/procedure information
- Audio/video connection to examination rooms
- Tools for activity and cost analysis



Training / Meeting Room

The media center for training, courses, and seminars with advanced video management, including live video and bidirectional communication from examination rooms.

- Access/display of departmental activity information
- IP audio/video routing and multi-display functionality

Endoscopic Ultrasound

Endoscopic Ultrasound									
	Insertion Tube OD (mm)	Channel ID (mm)	Bending (Up/Down Left/Right)	Working Length (mm)	Ultrasound Field of View	Endoscopic Field of View (Forward/Oblique)	Depth of Field (mm)	Frequency (MHz)	Scanning Mode
Ultrasonic Videoscopes for EUS									
GF-UE290	10.9	2.2	130°/90° 90°/90°	1250	360°	100°/50°	3 - 100	5/6/7.5/10/12*	Electronic radial array
GF-UE260-AL5	11.8	2.2	130°/90° 90°/90°	1250	360°	100°/55°	3 - 100	5/6/7.5/10*	Electronic 360° radial array
GF-UCT260	12.6	3.7	130°/90° 90°/90°	1250	180°	100°/55°	3 - 100	5/6/7.5/10/12*	Electronic curved linear array
TGF-UC260J	12.6	3.7	180°/90° 90°/90°	1245	90°	120°/0°	3 - 100	5/6/7.5/10/12*	Forward viewing, electronic curved linear array
Ultrasonic Endoscopes for EBUS									
BF-UC290F**	6.3	2.2	160°/70° —	600	65°	80°/20°	2 - 50	5/6/7.5/10/12*	Electronic curved linear array
BF-UC260FW**	6.3	2.2	120°/90° —	600	60°	80°/35°	2 - 50	5/6/7.5/10/12*	Electronic curved linear array

* with EU-ME2. Please contact your Olympus representative for compatibility with other systems.

** fiber videoscope for the best ratio between outer diameter and working channel size

Endoscopic Ultrasound

	Frequency (MHz)	Working Length (mm)	Insertion Tube OD (mm)	Comp. Biopsy Channel (mm)	Compatible with	Compatible Biopsy Channel (mm) for Sheath	Scanning Mode
Ultrasonic Miniature Probes							
UM-2R	12	2050	2.5	2.8	–	3.7	Mechanical radial
UM-S20-17S	20	2150	max. 1.8	2.0	K-201 / K-202 Guide Sheath Kit	2.0	Mechanical radial
UM-S20-20R	20	2050	max. 2.0	2.2*	K-203 / K-204 Guide Sheath Kit and K-403/K-403 GuideSheathKit 2	2.6	Mechanical radial

*** equipped with a 0.035" guidewire port at the distal end
*2.0 mm in bronchoscopes

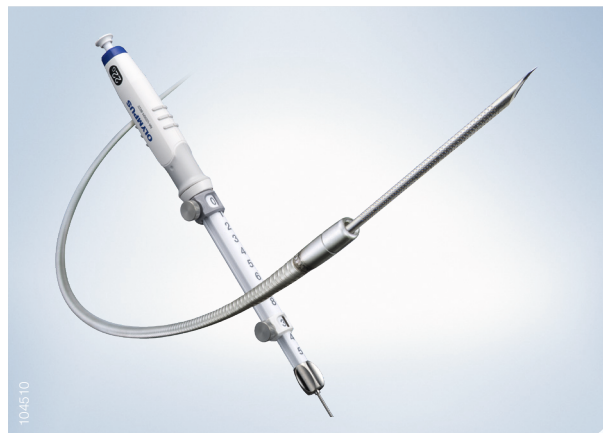
Endoscopic Ultrasound (EUS)

Advancing EUS Applications

Diagnostic and Interventional EUS

Full range of advanced ultrasound processors with dedicated features for EUS and EUS-ERCP applications and EUS endoscopes with outstanding maneuverability.

A comprehensive variety of EUS-FNB needles with superior flexibility to obtain tissue from difficult scope positions and EUS-FNA needles with improved echogenicity for controlled sampling.



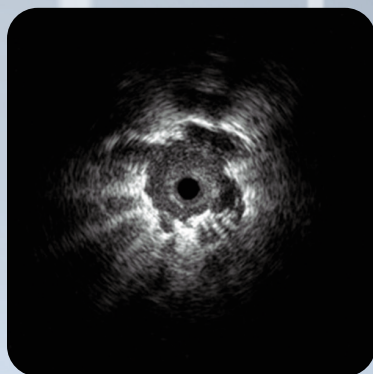
Advancing the Art of Bronchoscopy

Finding and Sampling of Peripheral Pulmonary Lesions

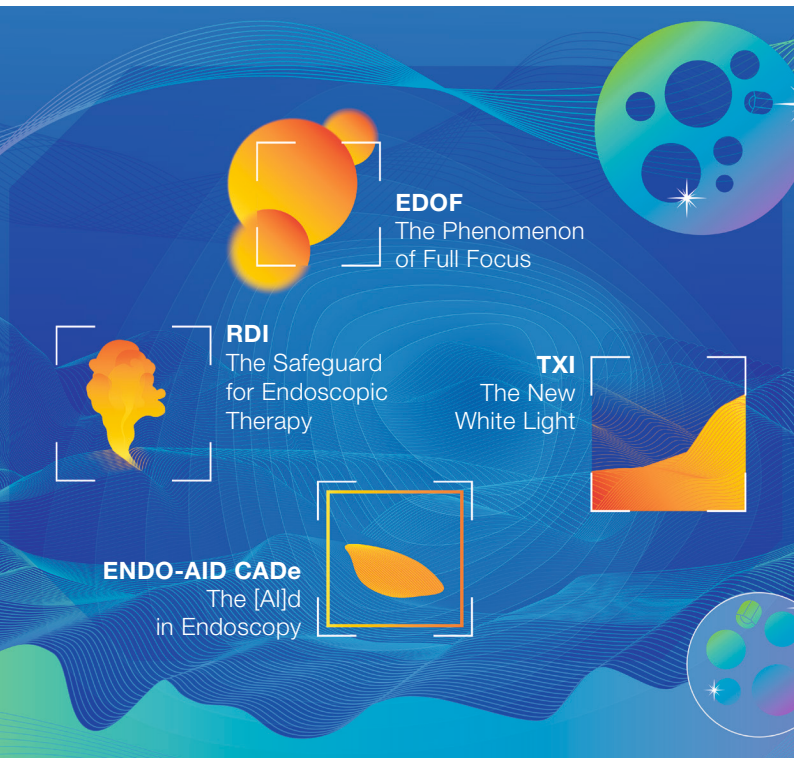
Peripheral Pulmonary Lesion

Real-time confirmation of the lesion through endobronchial ultrasound using an EBUS miniature probe.

Combining EBUS with a GuideSheath enables easy and repeated access to the lesion via sampling devices.



23554



EDOF

The Phenomenon
of Full Focus

RDI

The Safeguard
for Endoscopic
Therapy

TXI

The New
White Light

ENDO-AID CADe

The [AI]d
in Endoscopy

Let's Be Clear

Elevating the Standard of Endoscopy

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EVIS X1



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As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.

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