



4400/2500

ELECTRONIC VIDEO ENDOSCOPY SYSTEM

530 SERIES

FUJINON BRONCHOSCOPE

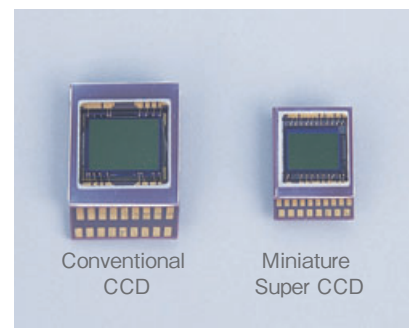
# High quality images realized with the Super CCD. The various endoscope lineup for a wide range of applications

The 530 series Fujinon electronic bronchoscopes fully meet the needs expected in the endoscopic bronchial care. Incorporated with the leading endoscopic technologies, this series offers high-quality images further enhancing diagnostic capability as well as high operability, insertability, and durability. The lineup is suited to versatile applications.



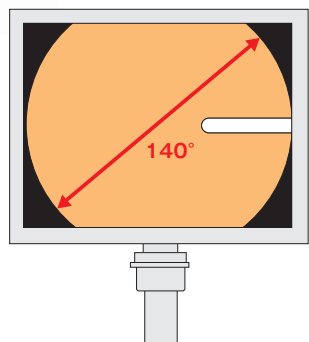
## Miniature Super CCD chip

The 530 series endoscopes are equipped with a miniature Super CCD chip developed exclusively for ultra-slim endoscopes. Using RGB filtering, the chip also provides vivid colors in the red spectrum which are important in endoscopic diagnoses.



## High quality images with a wide field of view of 140°

The EB-530H has an improved field of view of 140°, which is 20° wider than the conventional view. The wider field of view enables a wider observation field to be displayed in high quality without using the digital zoom-out, promoting more effective and detailed diagnoses.



EB-530H

## Lineup for various applications

The 530 series has three types of bronchoscopes, which include both standard and treatment types. You can choose an endoscope best suited to your purpose.



EB-530H

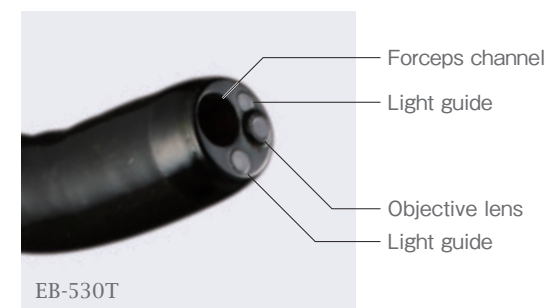
EB-530S



EB-530T

## Improved tip layout

The dual light guides equipped in the 530 series endoscopes eliminate considerable portions of shadow areas and provide bright and clear endoscopic images. The forceps channel in this series is widened as much as possible, enabling the acceptance of various forceps and improving the suction power.



## Single-use suction button

The single-use suction button enables physicians to conduct clean and less interrupted suction at all times. The internal structures of endoscopes has also improved, further enhancing suction performance.



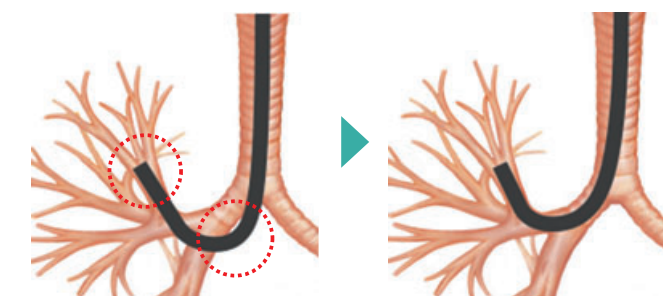
## The light-weight grip realizing high maneuverability

The light-weight grip eases a physician's strain during the endoscope operation. To enhance maneuverability, the design and buttons are laid out to fit naturally into physician's hands.



## Smoother insertion

The downsized hard and bending portions of the distal end have improved the flexibility of the endoscope, allowing smoother insertion into the upper lobe bronchi.



Improving the insertion capability for the upper lobe bronchi

## Light-weight connector

The connectors incorporated in the 530 series endoscopes are slim, lightweight, and easy to handle. Procedures are now considerably less troublesome when the endoscope has to be removed/attached for cleaning and disinfection.



# High Performance Electronic Video Bronchoscopes—The 530 Series

Leading endoscopic technologies are incorporated into the 530 bronchoscope series.

All endoscopes in the series are equipped with the Super CCD chip, enabling high-quality images to be provided of all bronchial areas. Each endoscope is equipped with the features suited to each purpose, such as the dual light guides equipped as standard, a large forceps channel, and high frequency compatibility.



## Electronic Video Bronchoscope — Standard Type

### EB-530H

Displaying an ultra high-quality wide angle image of 140°, this standard type endoscope has further enhanced the observation performance.

Field of view	140°
Observation range	3-100mm
Distal end diameter	5.4mm
Flexible portion diameter	4.9mm
Bending capability	UP180° / DOWN130°
Working length	600mm
Total length	870mm
Forceps channel diameter	2.0mm

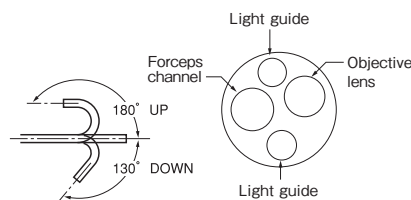
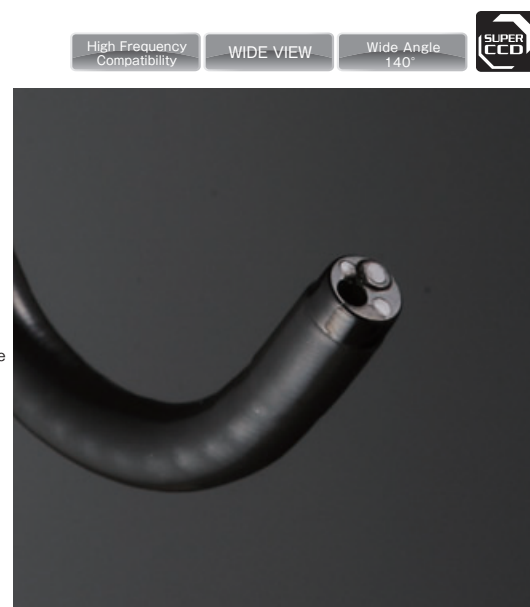
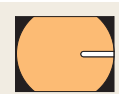


Image area  
& Forceps entry  
position



## Electronic Video Bronchoscope — Treatment Type

### EB-530T

This endoscope achieves high treatment capability. The 2.8mm forceps channel accommodates various treatment accessories, and an insulated resin cap is equipped on the tip.

Field of view	120°
Observation range	3-100mm
Distal end diameter	5.8mm
Flexible portion diameter	5.9mm
Bending capability	UP180° / DOWN130°
Working length	600mm
Total length	870mm
Forceps channel diameter	2.8mm

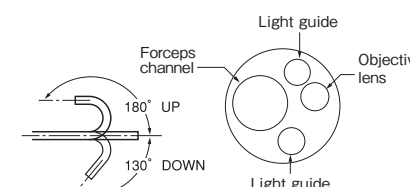
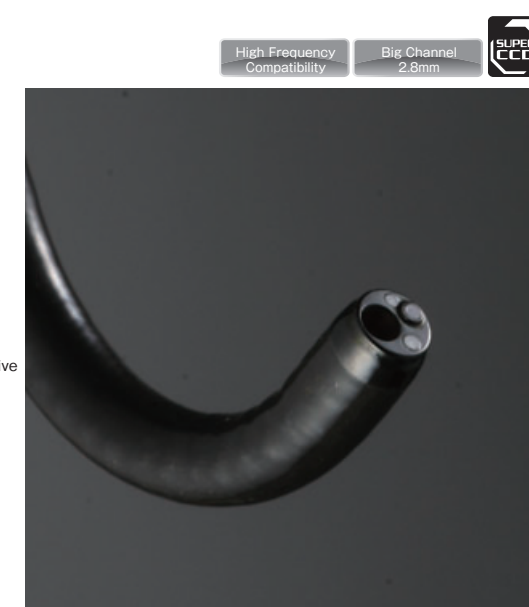


Image area  
& Forceps entry  
position



## Electronic Video Bronchoscope — Standard Type

### EB-530S

This standard type endoscope is suitable for ordinal biopsies as well as treatment with a high-frequency knife and APC. This scope offers excellent capabilities in observation, insertion and treatment.

Field of view	120°
Observation range	3-100mm
Distal end diameter	4.9mm
Flexible portion diameter	4.9mm
Bending capability	UP180° / DOWN130°
Working length	600mm
Total length	870mm
Forceps channel diameter	2.0mm

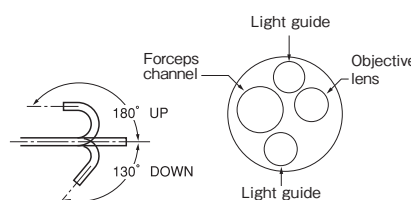


Image area  
& Forceps entry  
position



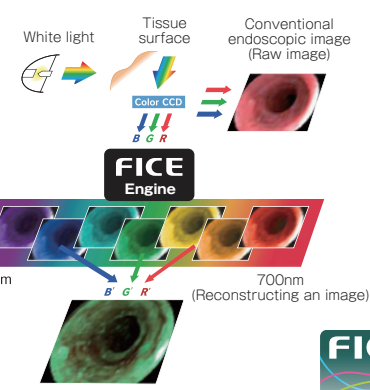




# EPX-4400 SYSTEM +FICE

Full Digital Processor  
Leading diagnostic performance  
to higher dimension

The unique digital signal processing circuits equipped in the processor and the light source enable image fineness and precision in picture quality to be retained even when viewing microvessels or mucosal surfaces. On the operation panel are illuminated buttons with pictograms, which enable easy examination.



## Reconstructing spectrum images into a more easy-to-diagnose image with FICE

FICE(Flexible Spectral Imaging Color Enhancement) extracts and combines multi wavelength images with the spectral images processed from a conventional image, and reconstructs a more easy-to-diagnose image. The scope switch allows physicians to switch between the conventional image and the FICE image in a split second, ensuring an uninterrupted examination with the eyes always concentrated on the monitor.

### Specifications

Light Source	XL-4400 (120V)	XL-4400 -S- (230V)	XL-4400HD (120V)	XL-4400 -HD- (230V)
Lamp	300W short-arc Xenon lamp (Emergency lamp : 75W Halogen lamp)			
Main specifications	Automatic light control Air supply pump Normal / Low / OFF			
Power	AC120V 60Hz 3.7A	AC230V 50Hz 1.9A	AC120V 60Hz 3.7A	AC230V 50Hz 1.9A
Dimensions	350(W)x420(D)x130(H) mm			
Weight	16 kg			
Processor	VP-4400 (120V)	VP-4400 -S- (230V)	VP-4400HD (120V)	VP-4400 -HD- (230V)
Image output signal [Digital outputs]				
DVI (Digital Visual Interface) LCD Monitor	1	1	1	1
HD-SDI	—	—	2	2
IEEE-1394 VTR interface	1	1	1	1
Network interface 100/10 Base	1	1	1	1
[Analog outputs]				
RGB	1	1	1	1
RGB (TV/PC changeover)	2	2	2	2
VBS	1	1	1	1
S-Video	1	1	1	1
Control signals				
RS-232C terminal	2	2	2	2
Card reader terminal	1	1	1	1
Remote (trigger output)	3	3	3	3
Main functions				
Electronic shutter	1/30, 1/60, 1/100, 1/200, AUTO			
Electronic image zoom	ratio of 1.05 to 2.0			
Examination switch	ON / OFF			
Image recording media	CF card			
Noise reduction	ON / OFF			
Internal image storage capacity	152 frames (60 frames in the 590 series)			
IRIS mode	Average / Peak changeover			
Power	AC120V 60 Hz 0.31A	AC230V 50Hz 0.17A	AC120V 60Hz 0.35A	AC230V 50Hz 0.21A
Dimensions	350(W)x420(D)x75(H) mm (excluding projections)			
Weight	8kg	8kg	9kg	9kg



# EPX-2500 SYSTEM

Processor with integrated light source  
Offering simple operation and  
high-quality images

Despite its compact size with an integrated light source, this processor enables high-quality images to be output using the on-board DVI, realizing an ideal examination environment with its simple operability.

### Specifications

Digital Output	DVI (Digital Visual Interface) : 1024x768p
Analog Output	RGB (2) : SDTV (NTSC/PAL) Y/C (2) : SDTV (NTSC/PAL) Composite : SDTV (NTSC/PAL)
Color Adjustment	Black, Red, Green, Blue, R-Hue, Chroma; 9 settings
Detail	Hi, LO; 9 settings
Contrast (gamma)	9 settings
BLD	Hi, Mid, Lo, Off
Picture in Picture	On, Off; Size : 1/4, 1/3
Auto Gain Control	Off, +3db, +6db
Iris	Average / Peak

Zoom	Electric zoom : x1.0 - x2.0; 0.05 steps
Lamp rated value	Main lamp : 11.7V 150W Xenon lamp Emergency lamp : 12V 75W Halogen lamp
Brightness control	9 settings
Lamp cooling method	Forced air cooling
Air supply pump	Hi, Low, Off
Power	120V 60Hz 2.7A / 230V 50Hz 1.4A
Dimensions	375(W) x 495(D) x 190(H) mm (including projections)
Weight	17.0kg

