

Fujifilm Bronchoscopy System

State-of-the-art Electronic Video Bronchoscopy and
Endoscopic Ultrasonography in a unique system



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



The 530 series Fujifilm 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.

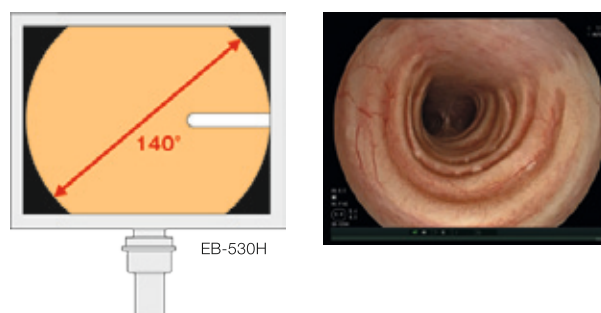
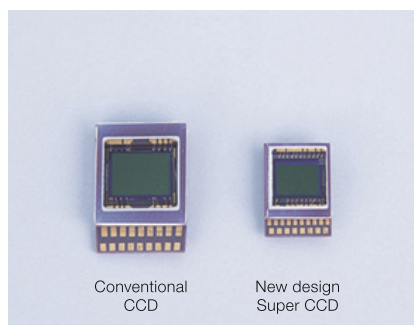


Equipped with a Super CCD image sensor

The 530 series endoscopes are equipped with a specially designed Super CCD image sensor for ultra-slim endoscopes. Using RGB filtering, the image sensor also provides vivid colors in the red spectrum which are important in endoscopic diagnoses.

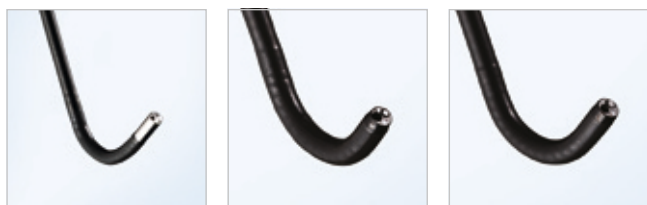
High-quality images with a wide field of view of 140°

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, supporting more effective and detailed diagnoses.



Lineup for various applications

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



EB-530P

EB-530S

EB-530H

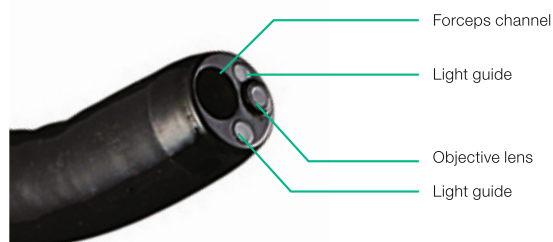


EB-530T

EB-530XT

Optimized 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.



EB-530T

Single-use suction button

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



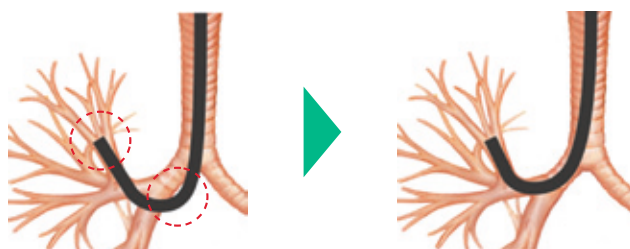
The light-weight grip realizing high maneuverability

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.

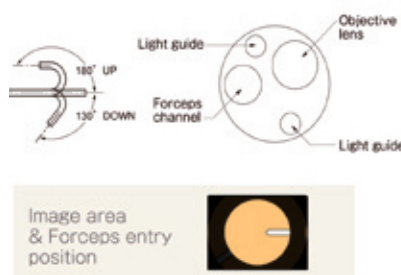


Electronic Video Bronchoscope – Slim type

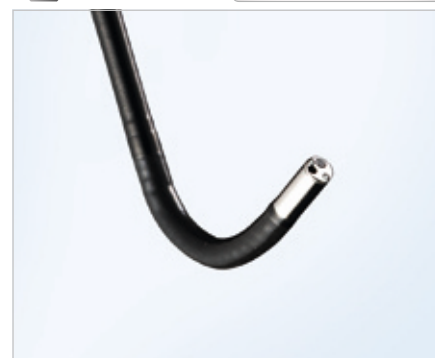
► EB-530P

This slim type scope has an impressive 3.8 mm distal end diameter, combined with 1.2 mm forceps channel, allows for improved insertion capabilities into the peripheral bronchi.

Field of view	120°
Observation range	3-100 mm
Distal end diameter	3.8 mm
Flexible portion diameter	3.8 mm
Bending capability	UP 180° / DOWN 130°
Working length	600 mm
Total length	890 mm
Forceps channel diameter	1.2 mm



SLIM DIAMETER

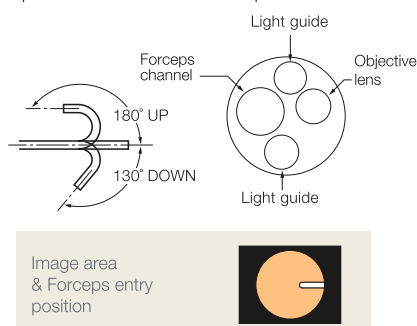


Electronic Video Bronchoscope – Standard type

► 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	3-100 mm
Distal end diameter	4.9 mm
Flexible portion diameter	4.9 mm
Bending capability	UP 180° / DOWN 130°
Working length	600 mm
Total length	870 mm
Forceps channel diameter	2.0 mm



HIGH FREQUENCY COMPATIBILITY

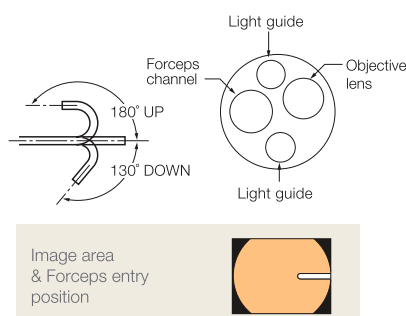


Electronic Video Bronchoscope – Standard type

► 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	3-100 mm
Distal end diameter	5.4 mm
Flexible portion diameter	4.9 mm
Bending capability	UP 180° / DOWN 130°
Working length	600 mm
Total length	870 mm
Forceps channel diameter	2.0 mm

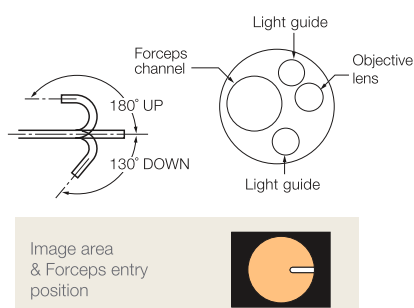


Electronic Video Bronchoscope – Treatment type

► EB-530T

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

Field of view	120°
Observation range	3-100 mm
Distal end diameter	5.8 mm
Flexible portion diameter	5.9 mm
Bending capability	UP 180° / DOWN 130°
Working length	600 mm
Total length	870 mm
Forceps channel diameter	2.8 mm

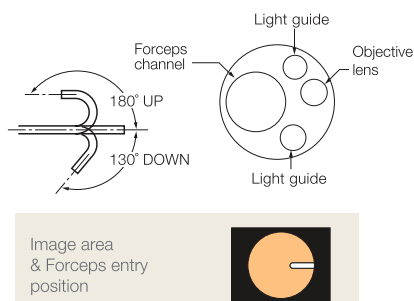


Electronic Video Bronchoscope – Treatment type

► EB-530XT

With the 3.2 mm forceps channel, this endoscope has improved its suction power, leading to further enhancement of the observation performance.

Field of view	120°
Observation range	3-100 mm
Distal end diameter	6.2 mm
Flexible portion diameter	6.3 mm
Bending capability	UP 180° / DOWN 130°
Working length	600 mm
Total length	870 mm
Forceps channel diameter	3.2 mm

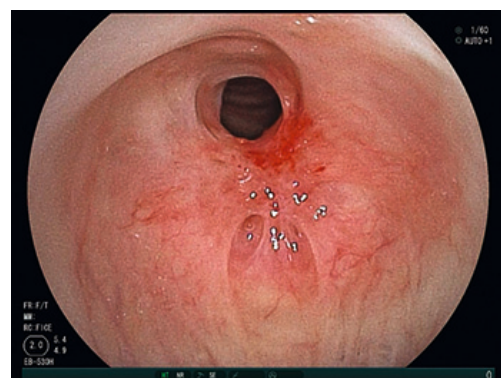


▶ EPX-4450HD with FICE Dual Mode

Full digital processor

Leading diagnostic performance to higher dimension

Clear and sharper image quality, advanced image processing features and interface allow for user-friendly operations and efficient workflows.



Achieving always optimal illuminated images with automatic control of the photometric mode

The automatic photometric mode selection optimally adjusts the lighting in accordance with the positioning of the endoscope, providing you with a well-balanced picture from close-up to distant focusing.

Available with the 500 series scopes



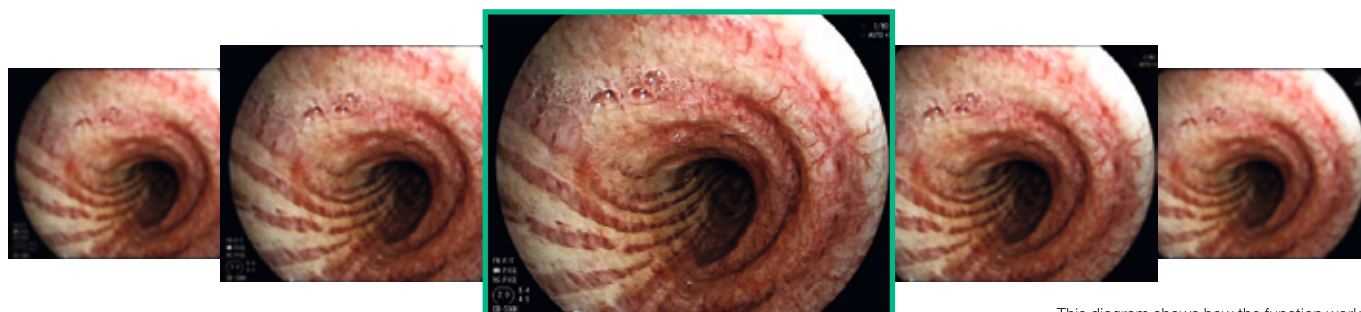
Average photometric operation



Peak photometric operation

Anti-blur function: extracting the best still image from multiple images

The anti-blur function offers sharpest and clearest images for review and documentation in any occasion.



This diagram shows how the function works

A sequence of images always kept in the background



Freezing the image during the examination

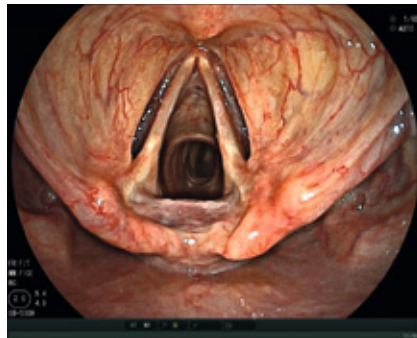
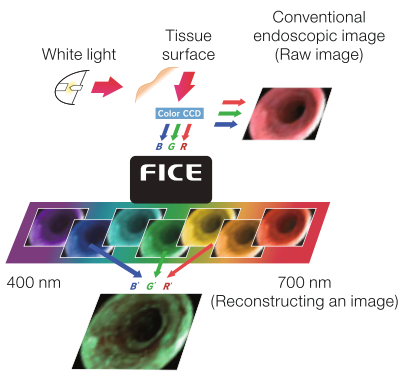


Automatic selection and display of the sharpest image



FICE technology in the EPX-4450HD

FICE – “Flexible spectral Imaging Colour Enhancement” – in the new EPX-4450HD yields diagnostic results without any need for tissue staining. The procedure digitally limits the wavelengths of the light and displays it in up to ten different colour combinations. 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.



EB-530H (White light)

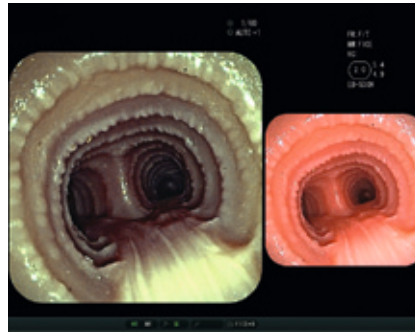


EB-530H (FICE 8)

Dual Mode

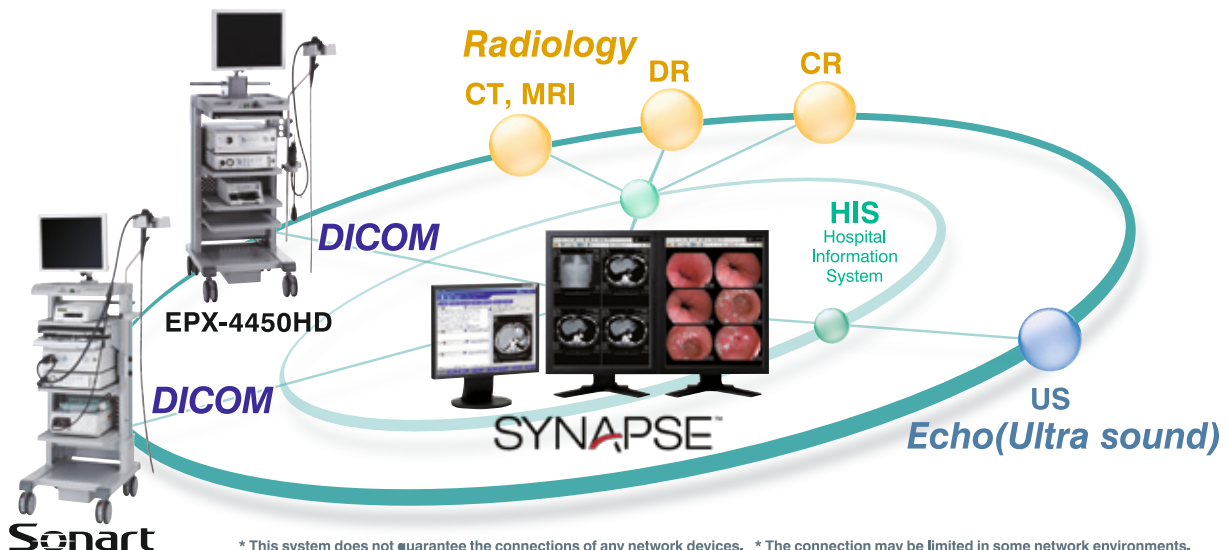
Simultaneously display a FICE image and white light image on the same monitor

By having a dual view of a FICE image and white light image on the same monitor, you can collect more information for examination and diagnosis.



FICE Dual Mode

EPX-4450HD integrates into the hospital network environment with DICOM interfaces



► Ultrasonic bronchoscope for ultrasonographic diagnosis

The improved maneuverability and insertion capability reduce patient discomfort and improve operator efficiency. These features, together with high-quality image, support safe ultrasonographic diagnosis.

Equipped with a Super CCD image sensor

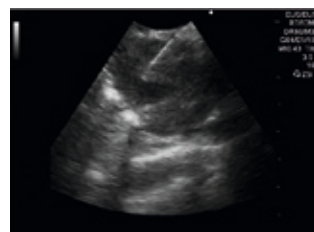
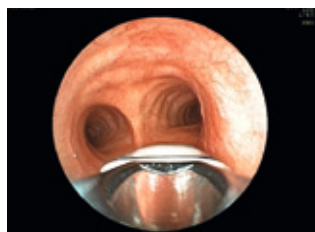
Equipped with the Super CCD image sensor at the tip of the endoscope, this ultrasonic bronchoscope offers high-resolution endoscopic images.

Multilateral approaches to improving maneuverability

Full support for observation, diagnosis and treatment of lesions and tissue collection in the bronchial region. Multilateral efforts improve maneuverability for safer diagnoses.

Paracentesis while constantly monitoring the position of the needle with 10° forward oblique view

The use of the 10° forward oblique view and optimal positioning of the ultrasonic transducer improve maneuverability and safety during paracentesis. The opening of the forceps channel is constantly displayed in an endoscopic image to help locate the puncture needle.



Two lights to support paracentesis

Two lights on opposite sides illuminate the front and eliminate shadows during paracentesis. An appropriate needle angle facilitates smooth paracentesis at the target site.



Appropriate bending angle for easy paracentesis (UP 130°/DOWN 90°)

A large bending angle facilitates paracentesis at the target site.



Distal end outer diameter of 6.7 mm

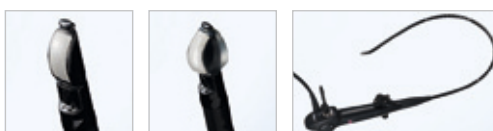
The ultra-slim endoscope with a distal end outer diameter of 6.7 mm reduces patient discomfort and improves maneuverability and insertion capability.

Endoscopic functions

Model	EB-530US
Viewing direction	10° (Forward Oblique)
Observation range	3 to 100 mm
Field of view	120°
Distal end diameter	6.7 mm
Flexible portion diameter	6.3 mm
Bending capability (UP/DOWN)	130° / 90°
Forceps channel diameter	2.0 mm
Working length	610 mm
Overall length	880 mm

Ultrasonic functions

Scanning mode	Color Doppler, Power Doppler, Pulse wave, B mode, M mode
Scanning method	Electronic scan (convex)
Scanning angle	65°
Frequency	5 Mhz / 7.5 Mhz / 10 Mhz / 12 Mhz



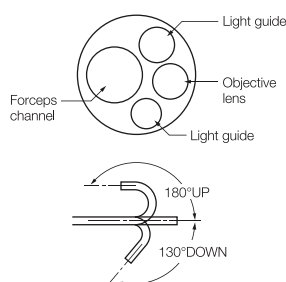
► Mobile Fiberoptic Bronchoscope

For quick and timely examinations in versatile clinical settings owing to no light guide cable at all. Practically no need to exchange the light source over many years owing to the LED light source.

Fiberoptic Bronchoscope – Mobile

► FB-120MP

Field of view	120°
Observation range	1-50 mm
Distal end diameter	4.8 mm
Flexible portion diameter	4.9 mm
Bending capability	UP 180° / DOWN 130°
Working length	600 mm
Total length	920 mm
Forceps channel diameter	2.2 mm
HF Compatibility	Yes



Battery Box

Smaller battery box LA-1A.

CR2 X 1 lithium battery (up to 60 minutes continuous use).

Durable battery switch owing to its rotational mechanism.

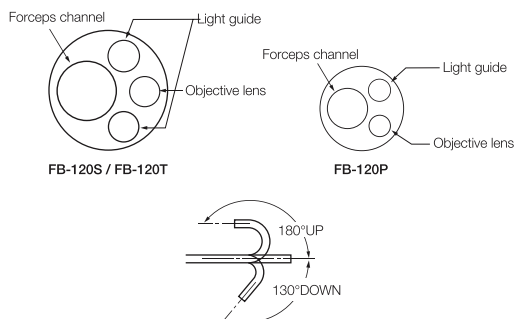
► Fiberoptic Bronchoscope

As the worldwide incidence of respiratory disease increases, higher-quality bronchoscopes to meet physician needs are demanded. Introducing the Fujifilm fiberoptic bronchoscopes, designed to meet not only the requirement of physicians, but also designed for improved patient comfort. Fujifilm fiberoptic bronchoscopes offer excellent optical characteristics, enhanced maneuverability and improved ergonomics. All this is necessary to improve examination efficiency. In order to further address clinical needs, the Fujifilm fiberoptic bronchoscopes are fully insulated to be compatible with high frequency therapeutic treatments. So, whether you want to use it for intubation purposes or the examination is of diagnostic or therapeutic nature, Fujifilm's fiberoptic bronchoscopes provide safe and efficient means for patient care.

Fiberoptic Bronchoscope – Standard, therapeutic, pediatric

► FB-120S/T/P

	FB-120S	FB-120T	FB120P
Viewing direction	Forward		
Observation range	1 ~ 50 mm		
Field of view	120°		100°
Distal end diameter	4.8 mm	5.9mm	2.7 mm
Flexible portion diameter	4.9 mm	5.9 mm	2.8 mm
Bending capability: UP	180°		
Bending capability: DOWN	130°		
Forceps channel diameter	2.2 mm	2.8 mm	1.2 mm
Working length	600 mm		
Total length	900 mm		920 mm



Video Processor

▶ EPX-4450HD

VP-4450 HD Processor



Digital output	HD-SDI: HDTV 1080i (2ch) DVI (Digital Visual Interface): 1280 x 1024 p Ethernet: 100/10 Base	
Analog output	RGB: 1280 x 1024 p SDTV (120 V/NTSC, 230 V/PAL): RGB Y/C, Composite	
Color adjustment	Brightness, Red, Green, Blue, R-Hue, Chroma; 9 steps	
Detail	Hi, Lo; 9 steps	
Contrast (gamma)	3 steps	
Hyper-Sharpness	Hi, Mid, Lo, Off	
Color emphasis	Hi, Mid, Lo, Off	
FICE	Flexible spectral imaging Color Enhancement 10 presets	
Iris	Average/Peak/Auto	
Image storage	CF Card	
Power rating	120 V 60 Hz 0.8 A	230 V 50 Hz 0.5 A
Dimensions (W x H x D)	390 x 105 x 460 mm	
Weight	9.5 kg	
DICOM	MWL, Store	

XL-4450 Light source

Lamp rated value	Main Lamp: 300 W Xenon lamp LMP-002 Emergency Lamp: 75 W Halogen lamp	
Light control	Automatic light control	
Lamp cooling method	Forced air cooling	
Air supply pump	High, Mid, Lo, Off	
Light save	On, Off	
Transmitted illumination	On, Off	
Power rating	120 V 60 Hz 3.3 A	230 V 50 Hz 1.7 A
Dimensions (W x H x D)	390 x 155 x 450 mm	
Weight	15 kg	

Video Processor

▶ EPX-2500



Digital output	DVI (Digital Visual Interface): 1024 x 768 p
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, +3 db, +6 db
Iris	Average / Peak
Zoom	Electric zoom: x1.0 – x2.0; 0.05 steps
Lamp rated value	Main lamp: 11.7 V 150 W Xenon lamp Emergency lamp: 12 V 75 W Halogen lamp
Brightness control	9 settings
Lamp cooling method	Forced air cooling
Air supply pump	Hi, Low, Off
Power	120 V 60 Hz 2.7 A/230 V 50 Hz 1.4 A
Dimensions (W x D x H)	375 x 495 x 190 mm (including projections)
Weight	17.0 kg



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