



Ordybehesht

Health Modern
Technology

Ordybehesht

Turning medical and engineering knowledge into life-saving results.

Future is Near

About **ORDYBEHESHT** Company

Ordybehesht Health Modern Technology Company is the representative of the national plan of flexible endoscopes and vessel sealing handpiece with the participation of the Vice President of Science and Technology.

Ordybehesht company was established in 2018, with the aim of designing and manufacturing high - tech medical equipments.

The current products of this company are Flexible Endoscopes (Bronchoscopes, Gastroscope, Colonoscope and Cystoscope) and Vessel Sealing Handpiece.

Until this date, Ordybehesht has more than 20 engineering, technical and administrative personnel, all of whom are trying to improve and optimize medical equipments based on the latest machining technologies and production management strategies.



B2101 - AG GASTROSCOPE



STANDARDS

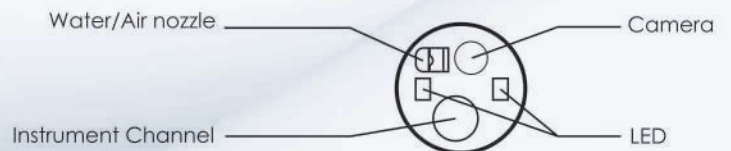
- IEC 60601-1-2:2014
- IEC 60601-2-18:2009
- IEC 60601-1:2005+A1:2012
- ISO 13485:2016

Technical Specifications of Gastroscope Model B2101-AG

Camera & Lightning

Minimum visible distance	4mm
Field of view	105°
Direction of view	Direct
Image quality	Full HD
Light intensity	6 x 800 mcd
Outer diameter of Adult Gastroscope	From 9 to 12.9mm
Outer diameter of Pediatric Gastroscope	From 4.9 to 8.9mm
Length	1030mm
Distal components	

Insertion Tube



Inner diameter of instrument channel **From 2.0mm to 3.7mm + 6.0mm**

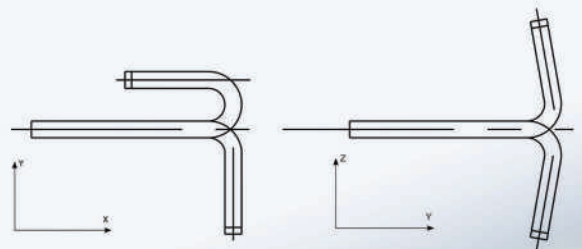
Bending Section

Rotation Range

180° Up , 90° Down , 100° Left , 100° Right

Image Processor

Ordybehesht B2101 - GC





The B2101-AG Gastroscope connector includes S-Cord connector, water/air connections, leakage test valve, suction tube adapter, air intake pipe and electronic connector.

This connector provides a complete range of facilities for Gastroscopy operations. Due to the special design of this connector, strength, low weight and ease of use is provided.

The instrument channel with the inner diameter From 2.0mm to 3.7mm + 6.0mm allows the use of all standard Gastroscope instruments.



The angle control lever allows for a smooth and continuous rotation of distal end in four directions, which leads to increased viewing angle and right place instrument positioning. The designed locks in this lever keeps the bending section at the desired angle.



The B2101-AG gastroscope is equipped with a miniature Full HD camera. This gastroscope creates a neutral white light by using six LEDs, providing a high-resolution and high definition image. In addition, a water/air nozzle has been installed to wash and dry the camera lens during operation.



B2101 - AC COLONOSCOPE

STANDARDS

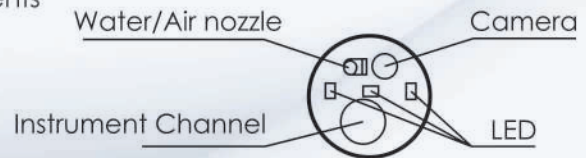
IEC 60601-1-2:2014
 IEC 60601-2-18:2009
 IEC 60601-1:2005+A1:2012
 ISO 13485:2016



Technical Specifications of Colonoscope Model B2101-AC

Camera & Lightning

Minimum visible distance	4mm
Field of view	105°
Direction of view	Direct
Image quality	Full HD
Light intensity	9 x 800mcd
Outer diameter of Adult Colonoscope	From 12.8 to 13.7mm
Outer diameter of Pediatric Colonoscope	From 9.5 to 12mm
Length	1030 and 1680mm
Distal components	



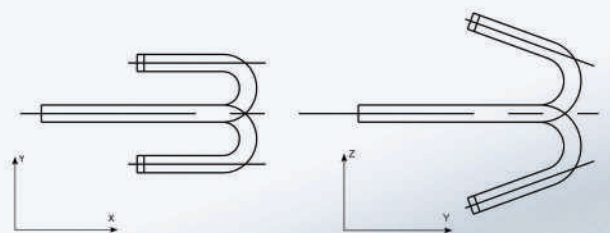
Inner diameter of instrument channel **3.2mm and 3.7mm**

Bending Section

Rotation Range **180° Up , 180° Down , 160° Left , 160° Right**

Image Processor

Ordybehesht B2101 - GC





The B2101-AC Colonoscope connector includes S-Cord connector, water/ air connections, leakage test valve, suction tube adapter, air intake pipe and electronic connector.

This connector provides a complete range of facilities for Colonoscopy operations. Due to the special design of this connector, strength, low weight and ease of use is provided.

The instrument channel with the inner diameter of 3.2mm and 3.7mm allows the use of all standard Colonoscope instruments.



The angle control lever allows for a smooth and continuous rotation of distal end in four directions which leads to increased viewing angle and the instrument to be positioned in the right place. The designed locks in this lever keeps the segment at the desired angle.



The B2101-AC Colonoscope is equipped with a miniature Full HD camera. This Colonoscope creates a neutral white light by using nine LEDs, providing a high-resolution and high definition image. In addition, a water/air nozzle has been installed to wash and dry the camera lens during operation.



B2101 - GC IMAGE PROCESSING & CONTROL UNIT



The B2101-GC image processing and control unit adjusts light intensity, air flow and transfers camera images to the display by connecting to Ordybehesht B2101 series endoscopes.

STANDARDS

IEC 60601-1-2:2014
IEC 60601-2-18:2009
IEC 60601-1:2005+A1:2012
ISO 13485:2016

Technical Specifications of Image Processing & Control Unit Model B2101-GC

Physical Characteristics	Dimensions Mass	160 x 400 x 410mm (HWD) 13kg
Electrical Specification	Input Voltage Maximum power consumption Protective fuse	100 - 230 V 120W Two non-fast 1.5A
Air Pump	Max flow intensity Max pressure	2.5 L/min 900 mbar
Compatible Endoscopes		B2101 - AG B2101 - AC

The B2101-GC device is responsible for processing the output signal of the camera and providing a high-quality image.

Image transmission in this device is done by using standard HDMI, HD-SDI and DVI ports. Accessories and external memories can be used through USB3.0 ports on the front and back panels.



Image Processing

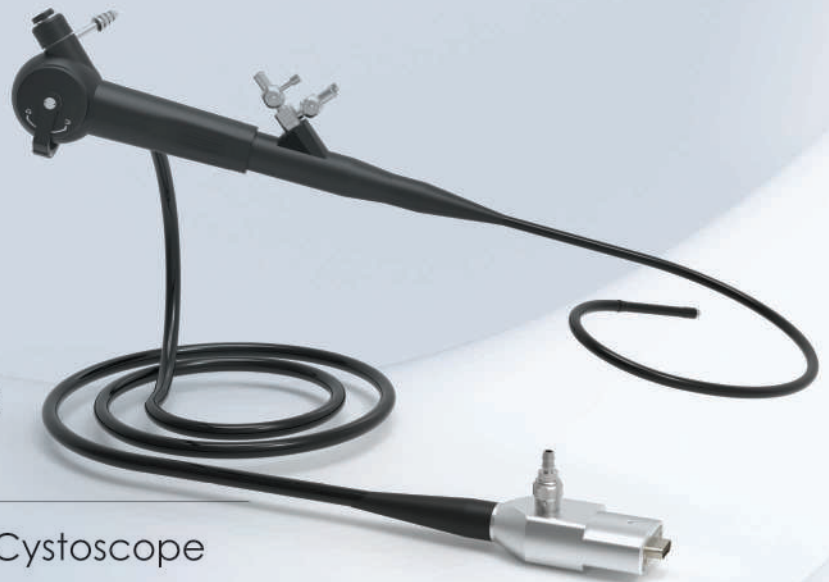
Operating system	Windows 10
Internal memory	240 GB SSD (Upgradeable)
Output ports	3 x USB 3.0, DVI, HD-SDI, HDMI
External memory port	YES



S2101 - AC CYSTOSCOPE

STANDARDS

IEC 60601-1-2:2014
IEC 60601-2-18:2009
IEC 60601-1:2005+A1:2012
ISO 13485:2016

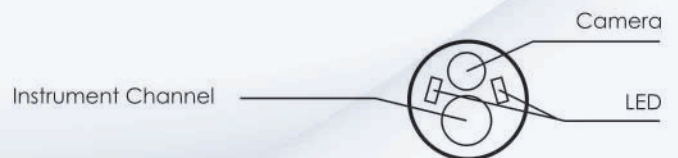


Technical Specifications of Cystoscope Model S2101-AC

Camera & Lightning

Minimum visible distance	4mm
Field of view	120°
Direction of view	Direct
Image quality	HD 720p
Light intensity	2 x 800mcd
Outer diameter	5.5mm
Length	380mm
Distal components	

Insertion Tube



Inner diameter of instrument channel **2.2mm**

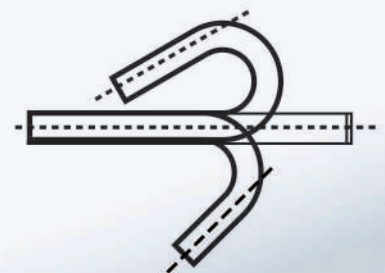
Bending Section

Rotation Range

210° Up & 130° Down

Image Processor

Ordybehesht S2101 - BC



The instrument channel with the inner diameter of 2.2mm allows the use of all standard Cystoscope instruments.



Cystoscope S2101-AC provides high resolution and high quality image by using a HD miniature camera and creating neutral white light by two LEDs.



The angle control lever allows for a smooth and continuous rotation of distal end in two directions, which leads to increased viewing angle and right place instrument positioning.



S2101 - AB BRONCHOSCOPE

STANDARDS

- IEC 60601-1-2:2014
- IEC 60601-2-18:2009
- IEC 60601-1:2005+A1:2012
- ISO 13485:2016



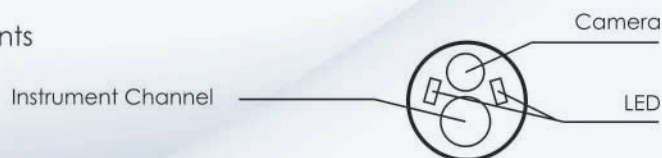
Technical Specifications of Bronchoscope Model S2101-AB

Camera & Lightning

Minimum visible distance	4mm
Field of view	120°
Direction of view	Direct
Image quality	HD 720p
Light intensity	2*800 mcd
Outer diameter of Adult Bronchoscope	4.4mm to 6.4mm
Outer diameter of Pediatric Bronchoscope	2.8mm to 4.1mm
Length	600mm

Insertion Tube

Distal components



Inner diameter of instrument channel **From 1.2mm to 3.2mm**

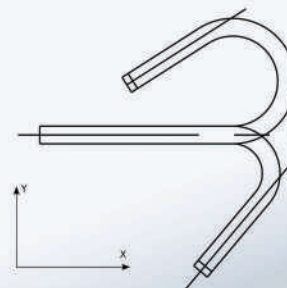
Bending Section

Rotation Range

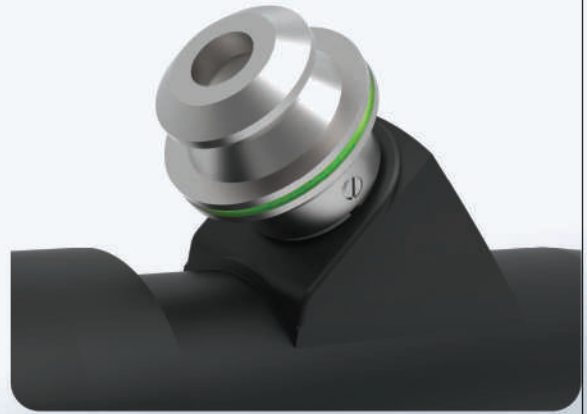
210° Up & 130° Down

Image Processor

Ordybehesht S2101 - BC



The instrument channel with the inner diameter of 1.2mm - 3.3mm allows the use of all standard Bronchoscope instruments.



Bronchoscope S2101-AB provides high resolution and high quality image by using HD miniature camera and creating neutral white light by two LEDs.



The angle control lever allows for a smooth and continuous rotation of distal end in two directions, which leads to increased viewing angle and right place instrument positioning.



S2101 - BC IMAGE PROCESSING & CONTROL UNIT



The S2101-BC image processing and control unit adjusts the light intensity and transfers the camera images to the display by connecting to Ordybehesht S2101 series endoscopes. By using the device panel buttons, the parameters of the camera output image can be controlled.

STANDARDS

IEC 60601-1-2:2014

IEC 60601-2-18:2009

IEC 60601-1: 2005+A1:2012

ISO 13485:2016

Technical Specifications of Image Processing & Control Unit Model B2101-BC

Physical Characteristics

Dimensions
Mass

**120x 350x 370mm (HWD)
8kg**

Electrical Specification

Input Voltage

100 - 230V

Maximum power consumption

30W

Protective fuse

Two non-fast 0.6A

Compatible Endoscopes

**S2101 - AC
S2101 - AB**

The S2101-BC device uses a dedicated electronic image processing board. Image transmission in this device is done by using standard HDMI, HD-SDI and DVI ports. The SD memory card port on the back panel of the device allows saving photos and videos.



HDSDI **HDMI**
SD **DVI**

Image Processing

Operating system	Dedicated software
Output ports	SD Card reader, DVI, HD-SDI, HDMI
External memory port	YES
Ability to save photos and videos	YES



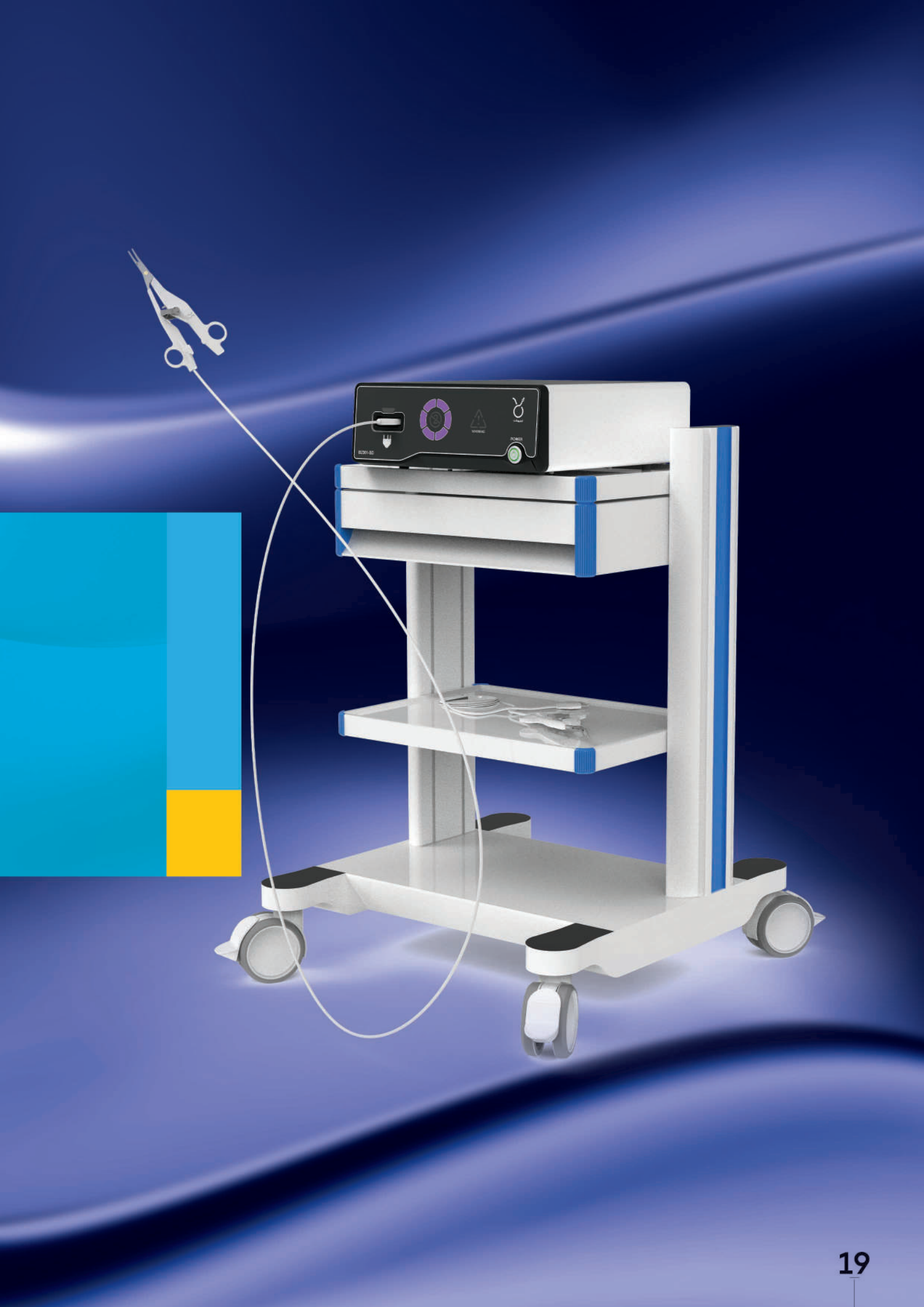


Ordybehesht





Future is Near



B2301 - HM ORDYBEHESHT VESSEL SEALING HANDPIECE

Technical Specifications of B2301-HM's Jaw

Distal jaw width	2mm	STANDARDS
Average jaw width	3mm	IEC 60601-1-2:2014+A1:2020
Working length	20.6mm	IEC 60601-1:2005+AMD1:2012+AMD 2:2020
Curve angle	21°	IEC 60601-1-8:2020
Curvature's length	21.6mm	ISO 13485:2016
		ISO 11737-2:2019
		ISO 10993-7:2008
		ISO 10993-1:2018
		ISO 10993-12:2012
		ISO 11607-1:2019

The advantages of using the curved and delicate jaw of our handpiece

- 1** Makes cutting and sealing simple and intuitive
- 2** Ability to use spaces that are difficult to access
- 3** No need to exchange tools and use sutures
- 4** Optimum short cooling cycle of ten seconds after every five seconds of use
- 5** Deliver precise blunt dissection
- 6** The ability to capture and restrain the tissue safely



B2301 - SD
ORDYBEHESHT VESSEL SEALING GENERATOR



B2301-HM handpieces are powered by B2301-SD high frequency unit.

STANDARDS

- IEC 60601-1-2:2014+A1:2020
- IEC 60601-1:2005+AMD1:2012+AMD 2:2020
- IEC 60601-2-2:2017
- ISO 13485:2016

Technical Specifications of Ordybehesht Vessel Sealing Generator
Model B2301-SD

Physical Characteristics	Dimensions Mass	130 x 380 x 350mm (HWD) 8kg
Electrical Specification	Input Voltage Maximum power consumption Protective fuse Input frequency	100 - 230V 330W Two non-fast 3.5A 50 - 60Hz

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FEB-B001-CN-1001		FEB-B015-CN-1015	
FEB-B002-CN-1002		FEB-B016-CN-1016	
FEB-B003-CN-1003		FEB-B017-CN-1017	
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FEB-B007-CN-1007		FEB-B021-CN-1021	
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