

HD 550 with bronchoscope EB-5T28

Sistem videoendoscopic pentru videobronhoscopie (caracteristici avansate) **HD-550+ EB-5T28.**

Videoprocessor Cod - HD 550

Descriere Sistem video pentru investigarea internă a organelor cavitare ale sistemului digestiv și respirator

Parametrul Specificația

Videoprocessor Intrări cameră ≥ 1 , Da.

Imaginea HDTV / HD $\geq 1920 \times 1080$ pixeli- **pag 6, Processor**

- Resolution: 1920×1080, 1920×1200

Controale / caracteristici Ajustare nuanță obligatoriu

Iluminare auto, **Da,**

Brightness	Auto/Manual, 1-19 levels
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Balans de alb auto-

White Balance	Auto-saved
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Acuitate obligatoriu

Image enhancement	Structure enhancement, Edge enhancement
Contrast/denoise	L/M/H , auto-denoise

Înșetarea imaginii obligatoriu, pag 4. **Processor**

- Image freeze/storage

- Real time image freeze

"Reducerea zgomotului imaginii" obligatoriu

AGC (Automatic gain control)	On/Off
AGC	Yes

Iris automat obligatoriu

IRIS	Peak/Avg/Auto
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Zoom electronic obligatoriu

Digital Zoom	1.4x, 1.6x, 1.8x
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Videocompensare obligatoriu

4.7.5 Image Enhancement

Press the **ENH** button on the front panel to adjust the edge enhancement level or structure enhancement level. The indicator corresponding to the selected level of edge enhancement or structure enhancement will be illuminated.

The image enhancement includes edge enhancement and structure enhancement. The structure enhancement includes two modes: Structure A and Structure B.

Ieșiri RGB 1 Y/C- da, prin S-video

Remarca:

RGB analog

- Poate transmite semnal de calitate înaltă, dar:
 - nu este un standard HD „garantat”
 - depinde de bandă și de echipament
- Teoretic poate reda imagini apropiate de HD în anumite sisteme, dar:
 - nu este stabil ca standard HD (720p/1080p definite clar)

➡ Concluzie: **nu este considerat soluție HD modernă standard**

Y/C (S-Video)

- Este limitat la semnal analog clasic
- Lățime de bandă insuficientă pentru HD
- conceput pentru PAL/NTSC (SD)



➡ Concluzie: **nu suportă HD**

Digital (DVI, SDI, HD-SDI)

Video output	SDI, DVI, VGA, CVBS, S-video
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Tehnologia de banda ingusta de culoare, care are rolul de a evidentia capilarele si structurile de pe suprafata mucoasei, pentru o mai buna delimitarea a leziunilor de la nivelul mucoasei da

Boosted Image Performance

The 4-LED light source enables multi-spectrum and multi-mode imaging. Its versatility not only allows a superior brightness under the White Light mode, but also an uncompromised illumination under chromoendoscopy modes SFI¹ and VIST², where the vascular color contrast and mucosal structure are greatly enhanced. You will get much more from this level of image performance.

White Light Mode (Default)	SFI Mode	VIST Mode
• Highly illuminated image • True to color • Suitable for routine observation	• Normal-focus mode with enhanced structure and color • Supporting in detection and demarcation of the lesions	• Near-focus mode with increased mucosal contrast • Assisting in characterization of the lesions and diagnosis

Sursa de lumină Tip lampă LED sau xenon ≥250W- **LED**

Periferece disponibile Display medical HD ≥ 23 inch, da.

27" High Resolution LCD Color Monitor

"Posibilitatea de stocare a datelor prin cel puțin una din metode" "DVD / SD-card / memory stick USB / HDD portabil"- **incorporate, pag 5 Processor**

- Storage capacity: 500GB (standard)

Data Management	500G Built-in, 5 USB, DICOM
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Înregistrare a datelor pacienților (minim ID, nume, sex, data nasterii, varsta, comentariu) ≥ 50 înregistrări, **Da 10000 pacienti,pag 10, 550 Processor**

Digital Zoom	1.4X, 1.6X, 1.8X
Patient Data	≥ 10,000 records

8. Work Order List

- More than 10000 work orders can be created and saved into the work order list.

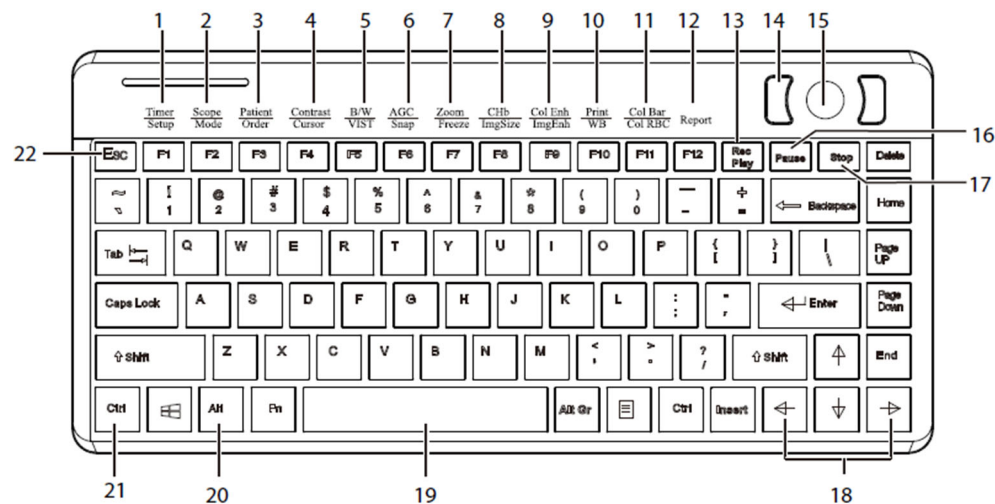
Usermanual processor, pag 28

Order	
Patient Info	
ID:	
*Name:	
Gender:	
Age:	
Exam Info	
Exam Item:	
Applicant:	
Status:	Not examined
Pre-exam Date:	03/15/2021 
Application Date:	03/15/2021 
(*: Required Filed.)	
Save	Exam
Exit	

Figure 4-6 Work Order

Tastatura pentru introducerea datelor, tastare multilingva care poate tasta si semnele diacritice obligatoriu

2.3 Keyboard



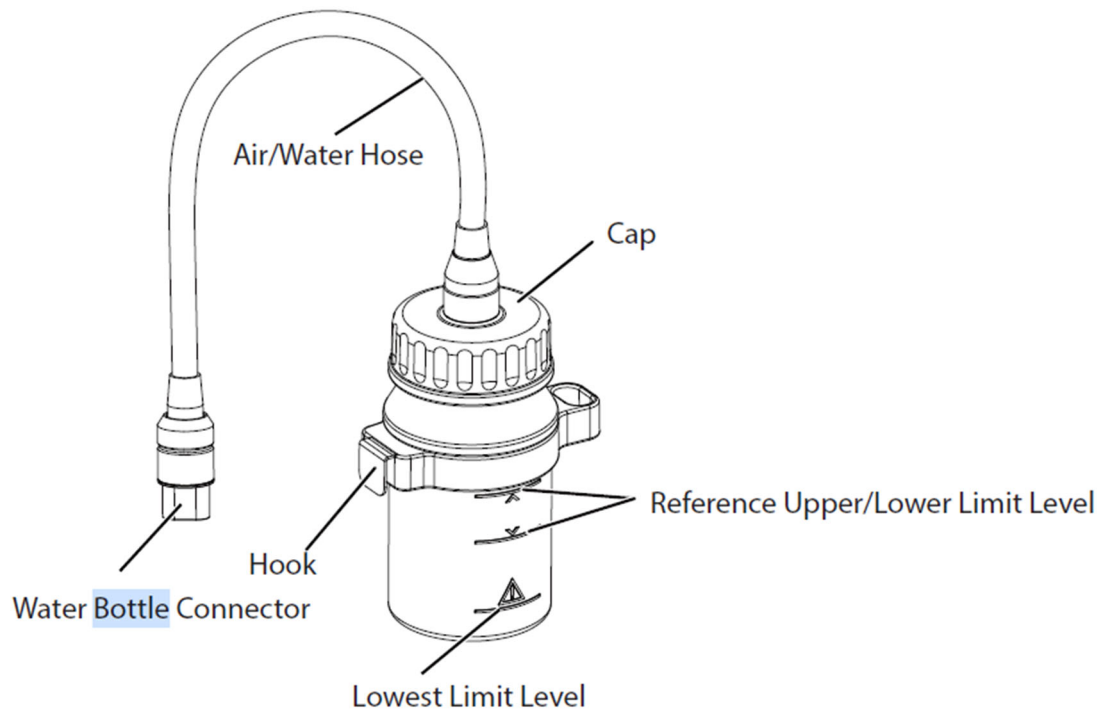
Suport pe rotile obligatoriu, DA

Keyboard tray	money cannot be moved easily.
	The keyboard tray is between the top cover and the Shelf A and near to bottom of the top cover. The keyboard tray can be pulled and pushed. Ensure that it can be moved easily.

Sistem de furnizare a aerului/appei minim 3 regimuri de lucru

Air feeding	4 levels (Off/L/M/H)
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volumul vasului pentru apă minim 250 ml, DA.



Sistem de aspirație Să se indice modelul oferit modelul H002
Tip Separat de procesor
Volumul rezervorului ≥ 1,4 litri—2x 2500 ml

Vid obligatoriu

Dirijarea nivelului de aspirare în trepte

III. SPECIFICATIONS

1. Max vacuum: ≥ 90 kPa
2. Adjustable vacuum range: 20 kPa $\sim$ Max vacuum
3. Max airflow: ≥ 20 L/min
4. Sound Level: ≤ 60 dB(A)
5. Suction bottle (glass): 2500ml/bottle, 2 bottles in a group

Accesorii: Sursa de lumină modelul oferit **VLS-55Q** 1 unit.

Pompă inclusă 0,3 - 0,6 Pa – extrem de mica valoare solicitata, improprie endoscopiei flexibile.

– Air-pump flow levels: high/medium/

low

– Pressure range: 45Kpa – 65Kpa

– Maximum air flow volume:

- High: 3.7L/min – 5.5L/min
- Medium: 3.0L/min – 4.7L/min
- Low: 2.0L/min – 3.7L/min

Tester automat 1 unit. (să se indice modelul)-**LT-217**

LT-217™

AUTOMATIC SYSTEM TO CHECK THE INTEGRITY OF FLEXIBLE AND SEMI-RIGID ENDOSCOPES



LT-217

LT-217/B (with built-in barcode reader)

Dimensions: W 115 x D 240 x H 70 mm
Materials: Shock resistant plastic

Classification: laboratory instrument
Warranty: 12 months
Standard pump average life: 4.000 cycles

DESCRIPTION

Patented leak tester designed to check all types and brands of flexible and semi-rigid endoscopes. It verifies the integrity of the endoscope and its inner channels through a patented vacuum and pressure system. 5 different cycles are available, all customizable. Equipped with 4" display, battery charger, mini-USB connector to download cycles (cable included).

Aspirator endoscopic ≥ 0.85 bar—**0,9**

Vas de rezervă pentru aspirator $\geq 1,4$ litri, 1 unit.-2 buc. 2500 ml

Filtre pentru aspirator 5 unit.-10 buc

III. SPECIFICATIONS

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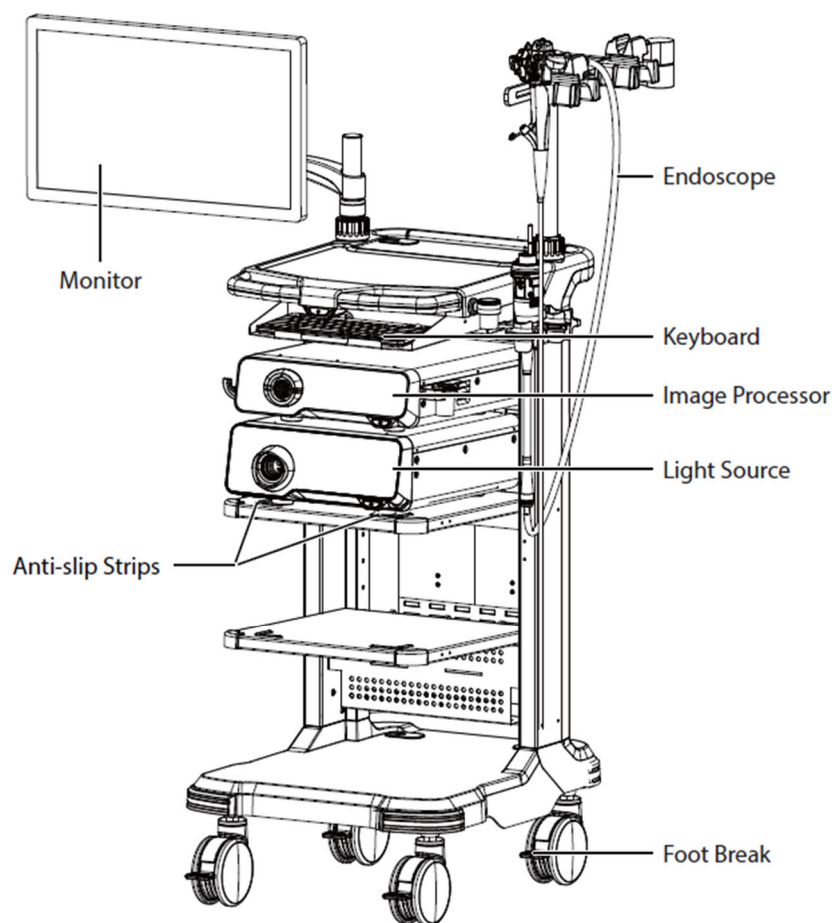
II. ACCESSORIES LIST

● Abdomen suction tube	1PC
● Suction soft tube $<\Phi 7 \times \Phi 12$, length 2m>	1PC
● Fuse tube< RF2AL250V $\sim$ / $\Phi 5 \times 20$ >	2PCS
● Power cord	1PC
● Foot-switch	1PC
● Air filter	2PCS
● Manual	1PC.

All specifications and product configurations are subject to change without notification.

Trolie cu transformator de izolare pentru excluderea electrocutării pacienților și medicilor în timpul procedurilor 1 unit. (să se indice modelul) **HDT-500 (With Transformer) (brosura anexată)**

Polițe reglabile la înălțime sau fixe 4 unit. -5 unit



Videobronhoscop Să se indice modelul oferit modelul **Video Bronchoscope EB-5T28:**
Φ6.7*600mm, 2.8mm working channel

Tip HDTV / HD ≥ 1920x1080 pixeli

Compatibilitatea cu Tehnologia de banda ingusta de culoare, care are rolul de a evidentia capilarele si structurile de pe suprafata mucoasei, pentru o mai buna delimitarea a leziunilor de la nivelul mucoasei obligatoriu-da.

Powered by SFI/VIST

SFI/VIST are SonoScape's image-enhanced endoscopy technologies, endorsed by physicians and extensively used in gastroenterology. Their applications also extend in bronchoscopy: combining with the High-Definition image, SFI/VIST provide an enhanced visualisation of surface structure and mucosal morphology, which helps to detect, demarcate and characterise airway inflammation and lesions.

Tubul de inserție Lungimea ≥ 600 mm

Diametrul exterior < 7mm

Gradația Să se indice adâncimea introdusă în cm, eroarea ± 1 cm

Canalul de lucru Diametrul ≥ 2.8 mm

Optica Unghiul câmpului de vedere 120 grade

Adâncimea câmpului de vedere 3 - 100 mm

Deflecția sus/jos 180/130

Capul distal Diametrul exterior < 5mm, **parametru impropriu pentru diametru extern de 7 mm.**

Funcționalitatea mâinerului de dirijare butoane ≥4

2.2.2 Control and Insertion Sections

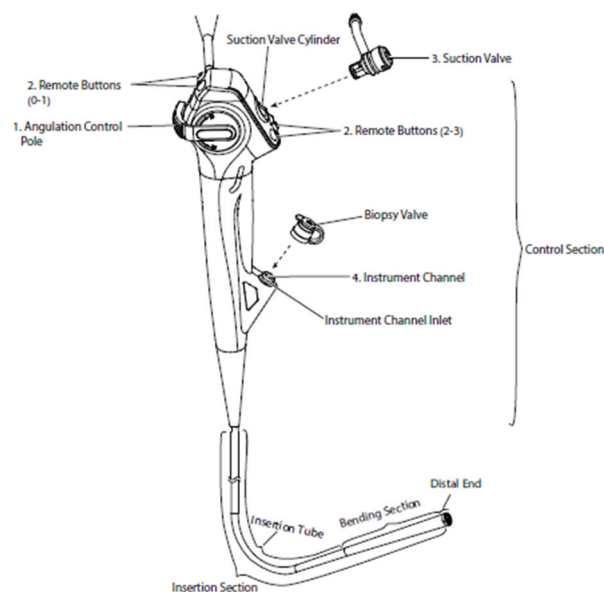


Figure 2-3 Control and Insertion Sections

No.	Part Name	Description
1	Angulation control pole	- Push it upwards, the bending section moves downwards; - Push it downwards, the bending section moves upwards.
2	Remote buttons (0-3)	The functions of these buttons can be set through the image processor used with the endoscope.
3	Suction valve	Press it to aspirate the liquid, debris or gas from the patient's body.
4	Instrument channel	This channel should be used with the biopsy valve and the functions are as follows. - Used to feed the liquid to the distal end of the endoscope. - Used for the endotherapy accessory. - Used as a part of the suction channel.

Bronchoscopes

	EB-5H20	EB-5T28
Angulation	Up180°, down130°	Up180°, Down130°
Depth of view	2-100 mm	2-100 mm
Field of view	120°	120°
Working length	600 mm	600 mm
Distal end diameter	4.9 mm	5.9 mm
Insertion tube diameter	4.9 mm	5.9 mm
Instrument channel diameter	2.0 mm	2.8 mm
Compatibility	HD-550, HD-510	HD-550, HD-510

Functii ale Video procesorului mentionate mai sus:

înghețarea imaginii obligatoriu
 eliberarea imaginii obligatoriu
 capturare imaginii obligatoriu
 reglarea intensității lumii obligatoriu
 reglarea tonului de culoare (filtre optice) obligatoriu
 modificarea contrastului obligatoriu
 zoom electronic obligatoriu.

Spălarea obiectivului obligatoriu, **da, prin canalul de irigare-aspiratie.**

2.2.3 Distal End

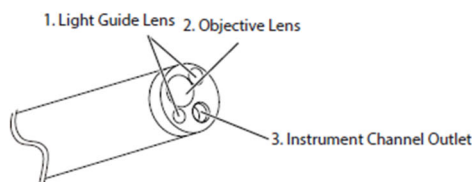


Figure 2-4 Distal End

No.	Part Name	Description
1	Objective lens	Used to transmit the optical signals of the observed area to the sensor.
2	Light guide lens	Used to transmit light signals of observed tissues to the image sensor.
3	Instrument channel outlet	Used as instrument outlet (such as biopsy forceps), liquid feeding outlet or suction inlet.

Metode de sterilizare Să se indice minim o metodă de sterilizare- Chimica, sterilizate cu plasma.

HD-550 Endoscopy System	
PART NO.	DESCRIPTION
Standard Configuration(Gastro&Colonoscope System Package)	
	HDT-550 Trolley system (With or Without Isolated Transformer)
	Color Monitor 27"
	Video Gastroscope (EG-550 series gastroscope, including one scope only)
	Video Colonoscope (EC-550 series colonoscope, including one scope only)
	Light Source: VLS-50 series LED light source (VLS-50D or VLS-50T)
	Image Processor: HD-550
	Keyboard
	Suction Machine
Optional Parts	
	HDT-500 Trolley system
	HDT-500 Trolley system with Isolated Transformer
	Barco 26"
	Video Gastroscope EG-550: $\Phi 9.3 \times 1050\text{mm}$, 2.8mm working channel
	Video Gastroscope EG-550L: $\Phi 9.8 \times 1050\text{mm}$, 3.2mm working channel
	Video Colonoscope EC-550: $\Phi 12 \times 1350\text{mm}$, 3.8mm working channel
	Video Colonoscope EC-550T: $\Phi 12 \times 1700\text{mm}$, 3.8mm working channel
	Video Colonoscope EC-550L: $\Phi 12.9 \times 1350\text{mm}$, 4.2mm working channel
	Video Colonoscope EC-550L/T: $\Phi 12.9 \times 1700\text{mm}$, 4.2mm working channel
	Image Processor HD-550
	VLS-50D
	VLS-50T