



**Veterinary
single-use
flexible Endoscope**

Datasheet

Safety	Standard	CE marking according to REGULATION (EU) 2017/745; Class II a according to Rule 5, Rule 13 in Chapter III of Annex VIII; EN 60601-1-2:2006; EN 60601-1-2:2015+A1:2021				
	Operating	Temperature: 5°C-40 °C, atmospheric pressure: 700hPa-1060hPa, humidity: ≤93%.				
Veterinary Single-use Flexible Endoscope	Storage	Temperature: 0°C-45 °C, atmospheric pressure: 700hPa-1060hPa, humidity: 30%-95%.				
	Transportation	Temperature: 0°C-45 °C, atmospheric pressure: 700hPa-1060hPa, humidity: 30%-95%.				
	Model	VBR-M22	VBR-M32	VBR-M40	VBR-M50	VBR-M58
	Item No.	2016B-PA055	2016B-PA054	2016B-PA053	2016B-PA052	2016B-PA051
	Type	Flexible	Flexible	Flexible	Flexible	Flexible
	Image sensor	CMOS (Complementary Metal Oxide Semiconductor) Chip-on-tip				
	View angle	120°±10°	120°±10°	120°±10°	120°±10°	120°±10°
	Direction of view	0°±10°	0°±10°	0°±10°	0°±10°	0°±10°
	View depth	3-50 mm	3-50 mm	3-50 mm	3-50 mm	3-50 mm
	Insertion tube diameter	2.2 mm	3.1 mm	4.0 mm	5.0 mm	5.8 mm
	Maximum size of insertion portion	2.3 mm	3.2 mm	4.1 mm	5.1 mm	6.1 mm
	Working channel	/	1.2 mm	2.0 mm	2.8 mm	3.4 mm
	Bending angle(up/down)	210°/210°	210°/210°	210°/210°	210°/210°	210°/210°
	Working length	600 mm±10%	600 mm±10%	600 mm±10%	600 mm±10%	600 mm±10%
	Total length	860 mm±10%	860 mm±10%	860 mm±10%	860 mm±10%	860 mm±10%
	Weight	≤0.28 Kg	≤0.28 Kg	≤0.28 Kg	≤0.28 Kg	≤0.28 Kg
	Control button	Two Buttons (User definable, image processor allow the functions adjustment including White Balance, Zoom, Taking photo, Video recording, Freezing, Disable)				
Recommended minimum ETT inner diameter ^{*1}	≥2.5 mm	≥3.5 mm	≥4.5 mm	≥5.5 mm	≥6.5 mm	
Minimum DLT size recommended for use ^{*1}	≥26 Fr	≥32 Fr	≥35 Fr	≥41 Fr	/	
Recommended maximum instrument size ^{*2}	/	<1.2 mm	<2.0 mm	<2.8 mm	<3.4 mm	
Enlarged view of tip						
Instrument channel (Direction from which instruments enter and exit the image)	/					
<p>^{*1} The inner diameter of double lumen tube can vary depending on the specific brand or model of the tube. There is no guarantee that all the tubes selected can be passed by.</p> <p>^{*2} Due to the vary instruments in the market, there is also no guarantee that all the recommended sizes of instrument can go pass the working channel.</p>						
Medical Image Processor	Model	MS-8				
	Operating	Temperature: 5°C-40 °C, atmospheric pressure: 800hPa-1060hPa, humidity: 30%-80%.				
	Storage	Temperature: -10°C-45 °C, atmospheric pressure: 800hPa-1060hPa, humidity: 30%-80%.				
	Transportation	Temperature: -20°C-50 °C, atmospheric pressure: 800hPa-1060hPa, humidity: 20%-90%.				
	Physical specification					
	Dimensions	386.4 (h) x 253.6 (w) x 38.5 (d) mm				
	Weight	2.7 kg				
	Display					
	Display size	15.6 inches				
	Display resolution	1920*1080 px				
	Display type	Color TFT LCD with touch screen				
	Display orientation	Support dual-view display, rotation function				
	Function of Setting					
	Scope button configuration	Function of A/B: White Balance, Zoom, Taking photo, Video recording, Freezing, Disable				
	Image adjustment	LED Level/Sharpness/Color Tone/Contrast				
	Language	English, French, German, Spanish, Portuguese, Swedish, Finnish, Norsk, Italian, Russian and Chinese				
	Pre-recording	Control function of Patient Information Management on/off				
	Image border					
	Output interface					
	USB I	Connect to the USB flash drive for data transfer or updating system				
	Digital video output	HDMI, DVI and SDI for connectivity to the external monitor				
	Output resolution	Full HD 1920*1080 px				
	Input interface					
	VL-port	For connection with endoscope which configured with the USB Type-C cable				
	Endoscope Port	For connection with endoscope with the edge connector				
	DC	Power supply				
	USB II	Only for developers debugging the software				
Recording function						
Recording format	JPG for photograph or MP4 for video					
Memory capacity	64 GB including operating system					
Audio recording	No					
Power supply						
Power adapter input	AC 100-240V 50/60Hz, 1.5A Max(Battery charger)					
Battery	Lithium battery rechargeable, DC 7.4V, 9500 mAh					
Battery continuous working time*	Maximum 5 hours when battery under good condition and normal usage					
Mounting interface						
Mounting interface standard	VESA MIS-D 100/75, C compliant displays with mounting interface					
Cleaning and Disinfection						
Recommended cleaning method	It is recommended that wiped by water mixed with detergents or enzymatic solution for cleaning.					
Recommended disinfection method	It is recommended that wiped by 75% medical alcohol.					
*The battery needs to be replaced if working time is less than 30 mins.						