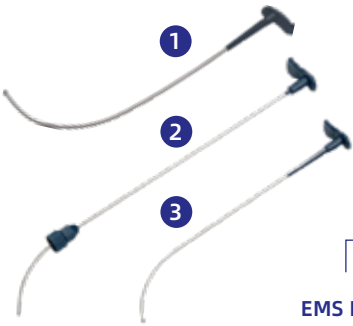# Accessories

Rigid Stylet

For use with endotracheal tubes ≥ 6.0mm;
Recommended to facilitate successful intubations

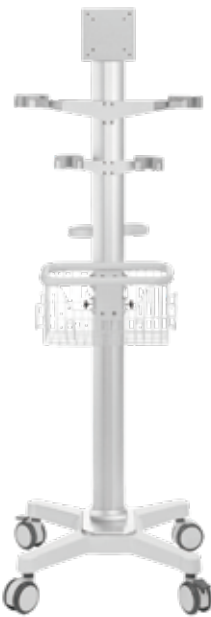**Item code:**

❶ 210-0063-00
❷ 210-0035-00
❸ 102-0364-00

Mobile Stand

A stand-alone configuration for use in a variety of hospital settings

Item code: 105-0152-00

EMS Bag

Color: BLUE/RED
Size: 3.5inch/8inch

Item code:
8inch(105-0340-00)
3.5inch(210-0505-00)

MILLER 00 MILLER 0 MILLER 1

MAC 1 MAC 2 MAC 3

MAC 4 MAC 5

MAC D1 MAC D2 MAC D3

MAC D4 MAC D5

Mac 1 Mac 2 Mac 3

Mac 4 Mac 5

CMac 3 CMac 4 CMac 5

Reusable Blades

Model No.	Item code	Size(L*W*H)	Applicable patients
Miller 00	210-0036-00	72x14x29.5	premature
Miller 0	210-0012-00	84x15x29.5	newborn
Miller 1	210-0013-00	110x15x29.5	infant
Mac 1	210-0014-00	101x18x34	infant
Mac 2	210-0060-00	115x21x36.5	children
Mac 3	210-0061-00	126.5x21x39.5	adult
Mac 4	210-0062-00	136x22.5x43	difficulty (obese)
Mac 5	210-0009-00	149.5x23x51	difficulty
Mac D1	210-0103-00	96x18x34	infant
Mac D2	210-0104-00	115x22x50	children
Mac D3	210-0105-00	127x22x53	adult
Mac D4	210-0106-00	136x22x57	difficulty (obese)
Mac D5	210-0107-00	147x22x59	difficulty

Disposable Blades

Model No.	Item code	Size(L*W*H)	Applicable patients
Mac 1	210-0473-00	101x18x34	infant
Mac 2	210-0474-00	115x21x36.5	children
Mac 3	210-0475-00	126.5x21x39.5	adult
Mac 4	210-0477-00	136x22.5x43	difficulty (obese)
Mac 5	210-0478-00	149.5x23x51	difficulty
CMac 3	210-0470-00	126.5x21x39.5	adult
CMac 4	210-0471-00	136x22.5x43	difficulty (obese)
CMac 5	210-0472-00	149.5x23x51	difficulty

Brochure

Video Laryngoscope
Airway Management Visual Tools

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

HugeMed

An Endoscopy Solution Company
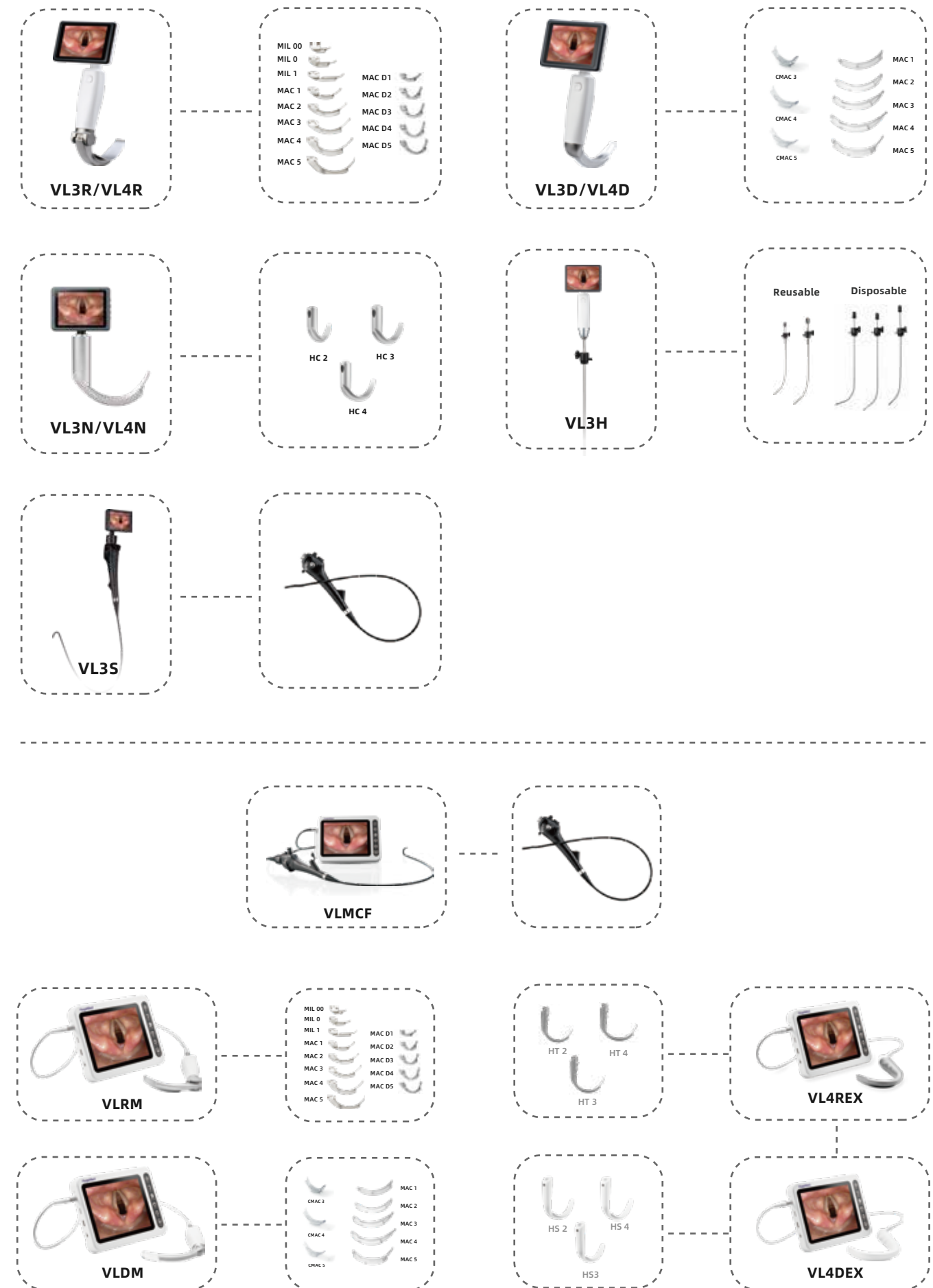
CE

P/N:ENG-EU-CATA-VL-STD-202310V1.0

HugeMed

1 Solution

Visual Intubation

HugeMed has launched video laryngoscope for tracheal intubation, with our airway management visualized system, you can perform the routine, anticipate difficult and general intubation. The diverse models and multiple types can support compliant efforts to those challenges in airway management.
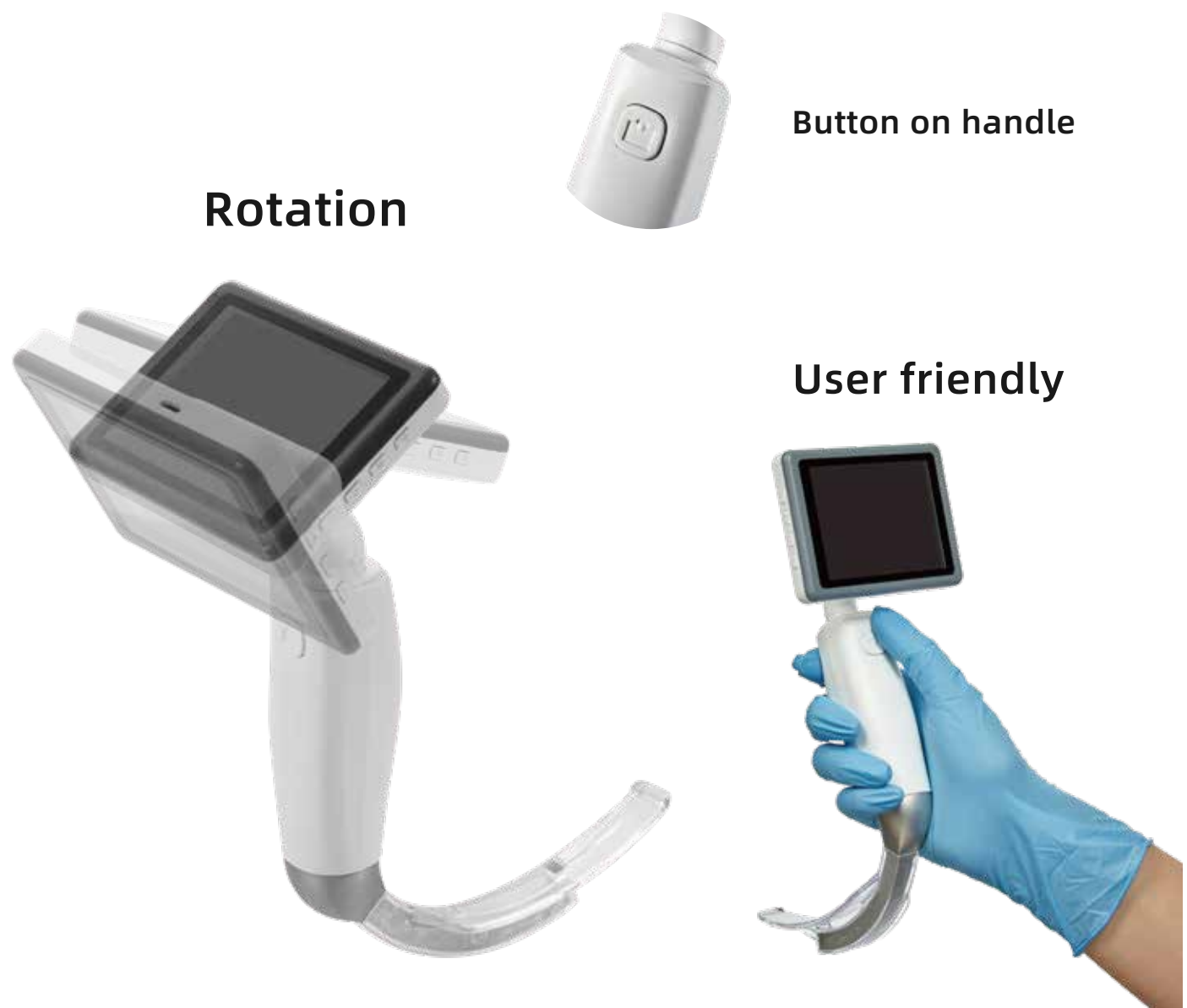
VL3R/VL4R

MIL 00
MIL 0
MIL 1
MAC 1   MAC D1
MAC 2   MAC D2
MAC 3   MAC D3
CMAC 3   MAC D4
MAC 4   MAC D5
MAC 5

VL3D/VL4D

CMAC 3   MAC 1
                              MAC 2
                              MAC 3
CMAC 4   MAC 4
CMAC 5   MAC 5

VL3N/VL4N

HC 2   HC 3
HC 4

VL3H

Reusable   Disposable

VL3S

VLMCF

VLRM

MIL 00
MIL 0
MIL 1
MAC 1   MAC D1
MAC 2   MAC D2
MAC 3   MAC D3
MAC 4   MAC D4
MAC 5   MAC D5

VL4REX

HT 2   HT 4
HT 3

VLDM

CMAC 3   MAC 1
                              MAC 2
CMAC 4   MAC 3
                              MAC 4
CMAC 5   MAC 5
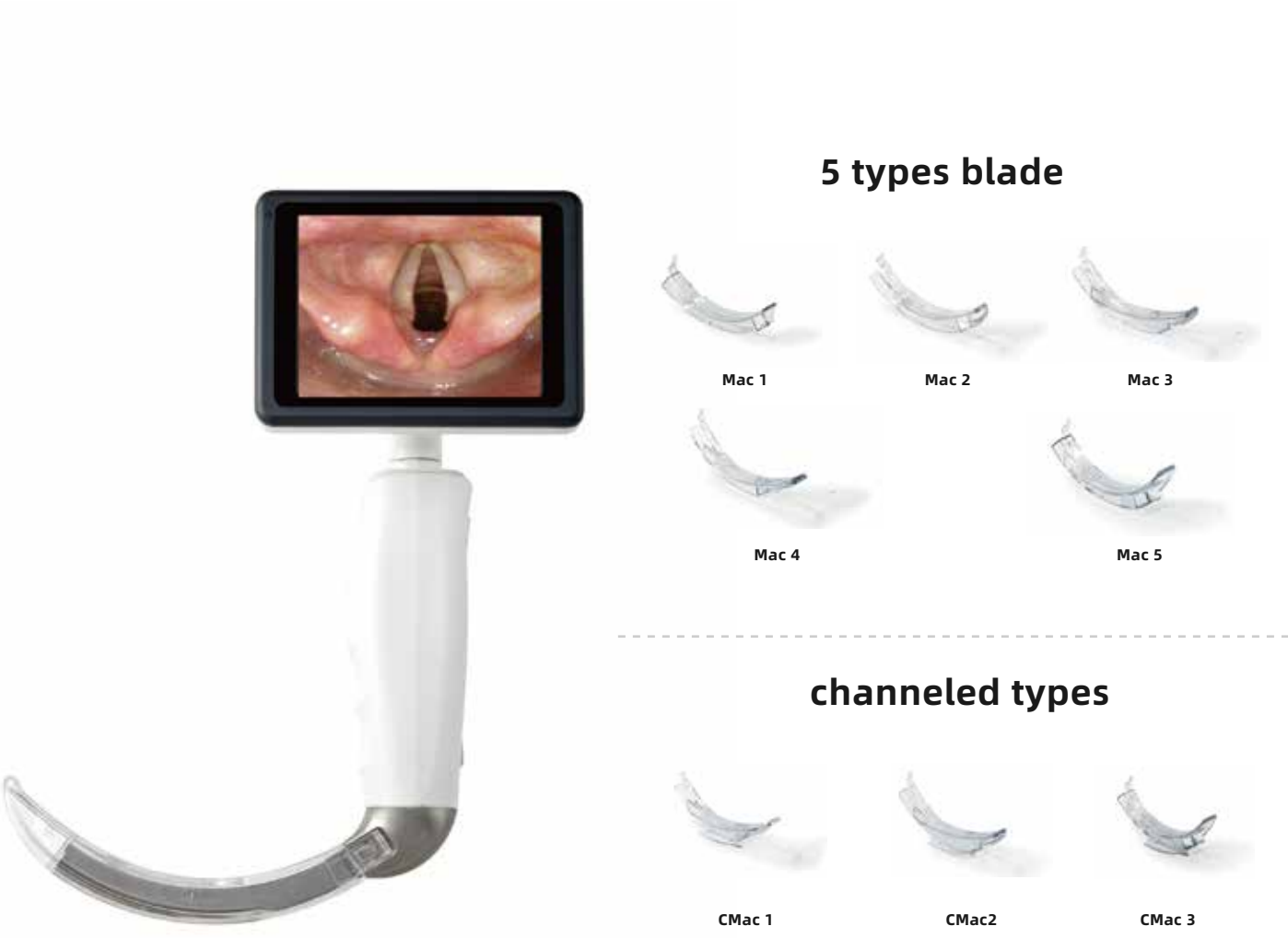
HS 2   HS 4
HS3

VL4DEX

VL3D/VL4D

Video Laryngoscope

Blade type-Disposable

Diverse model
5 sizes of single-use blades(additional 3 channeled types CMac3/4/5)

Functional
Easy to operate; One-click button for snapshot and video recording; 140°up/down, 180°left/right rotation; With external monitor connecting capability

High mobility
In combination with the 3.5/4 inches monitor, the VL3D/VL4D can be used in different occurrences

Anti-Fog Technology
Turn on and ready to go, no need to wipe water mist

Excellent Image quality
Using CMOS sensor and powerful LED at the distal tip provides good image quality

Anti-cross infection
Single-use blade for optimum protection against cross- contamination

Button on handle

Rotation

User friendly

5 types blade

Mac 1   Mac 2   Mac 3

Mac 4   Mac 5

channeled types

CMac 1   CMac2   CMac 3

Specification				
Model			VL3D	VL4D
Processor	Display size		3.5 inches full view	4 inches full view
	Display ratio		4:3	5:3
	Display type		TFT-LCD	
	Resolution		640*480 px	800 x 480 px
	Rotation		Up/down 0-140°, Left/right 0-180°	
	Memory		Built-in SD card standard 32GB	
Camera	Resolution		2.0M px	
	Field Angle		66°	
	Illuminance		LED≥400 lx, h=30mm	
Battery	Battery Capacity		Rechargeable 3200mAh lithium-ion battery	
	Working Time		≥120 minutes	
	Battery Life Cycle		≥300 times	
	Charging Times		4-6 hours	
Blade	Material		Polycarbonate	
	Anti-fog		Yes, Anti-fog by heating	
	Size		MAC1:101mm(L)*18mm(W)*34mm(H) MAC2:115mm(L)*21mm(W)*36.5mm(H) MAC3:126.5mm(L)*21mm(W)*39.5mm(H)	MAC4:136mm(L)*22.5mm(W)*43mm(H) MAC5:149.5mm(L)*23mm(W)*51mm(H)
Item code			8801B-PA003	2002B-PA002

VL3R/VL4R — Video Laryngoscope
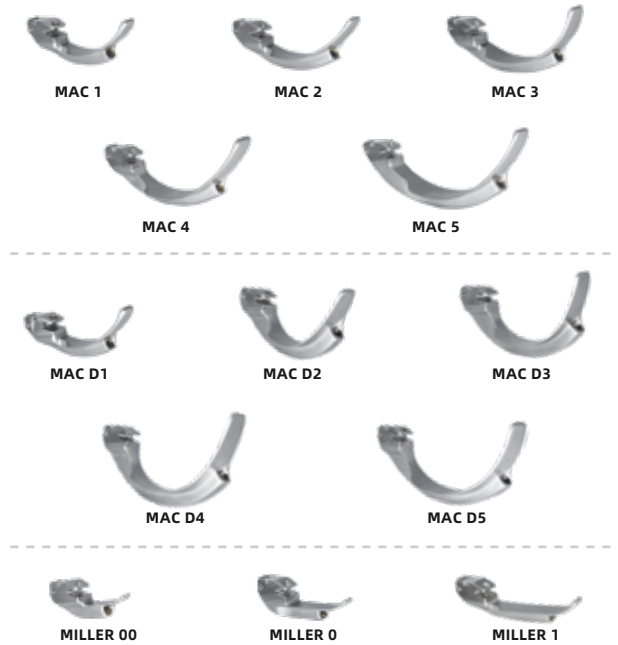
Blade type-Reusable

Diverse model
Complete 13 models of blade

Functional
Easy to operate; One-click button for snapshot and video recording;
140°up/down, 180°left/right rotation;
With external monitor connecting capability

High mobility
With the 3.5/4 inches monitor, the VL3R/VL4R can be used in different occurrences

Anti-Fog Technology
Turn on and ready to use, rapid heating advantages to resist lens clouding

Excellent Image quality
Using CMOS sensor and powerful LED at the distal tip provides good image quality

MAC 1   MAC 2   MAC 3

MAC 4   MAC 5

MAC D1   MAC D2   MAC D3

MAC D4   MAC D5

MILLER 00   MILLER 0   MILLER 1

Rotation

Button on handle   **13 types blade**

Specification				
Model			VL3R	VL4R
Processor	Display size		3.5 inches full view	4 inches full view
	Display ratio		4:3	5:3
	Display type		TFT-LCD	
	Resolution		640*480 px	800 x 480 px
	Rotation		Up/down 0-140°, Left/right 0-180°	
	Memory		Built-in SD card standard 32GB	
Camera	Resolution		2.0M px	
	Field Angle		66°	
	Illuminance		LED≥400 lx, h=30mm	
Battery	Battery Capacity		Rechargeable 3200mAh lithium-ion battery	
	Working Time		≥120 minutes	
	Battery Life Cycle		≥300 times	
	Charging Times		4-6 hours	
Blade	Material		316 medical stainless steel, anti-shatter	
	Water Resistance		IPX8	
	Anti-fog		Yes, Anti-fog by heating	
Item code			8802B-PA003	2003B-PA003

VL3N/VL4N — Video Laryngoscope

Blade type-New design

Diverse model
Complete 3 models of blade

Cost-effective
Optimized supply chain for nice-sale solution

Functional
Easy to operate; One-click button for snapshot and video recording; 140°up/down, 180°left/right rotation; With external monitor connecting capability

High mobility
With the 3.5/4 inches monitor, the VL3N/VL4N can be used in different occurrences

Anti-Fog Technology
Rapid heating advantages to resist lens clouding

Excellent Image quality
Using CMOS sensor and powerful LED at the distal tip provides good image quality

Anti-cross infection
Blade and handle form one continuous piece for optimum disinfection

High resolution & Field-angle
• 2.0M px camera
• Field angle ≥66°

Optimized Workflow
• USB port

Functional
• Photo & Video recording
• 32G storage

Tailored and Durable
• 3 Blades
• IPX8 Waterproof

HC 2   HC 3   HC 4

Specification				
Model			VL3N	VL4N
Processor	Display size		3.5 inches full view	4 inches full view
	Display ratio		4:3	5:3
	Display type		TFT-LCD	
	Resolution		640*480 px	800 x 480 px
	Rotation		Up/down 0-140°, Left/right 0-180°	
	Memory		Built-in SD card standard 32GB	
Camera	Resolution		2.0M px	
	Field Angle		66°	
	Illuminance		LED≥500 lx, h=30mm	
Battery	Battery Capacity		Rechargeable 1800mAh lithium-ion battery	
	Working Time		≥90 minutes	
	Battery Life Cycle		≥300 times	
	Charging Times		4-6 hours	
Blade	Material		Aluminum-Alloy	
	Water Resistance		IPX8 when waterproof cap is attached	
	Anti-fog		Yes, Anti-fog by heating	
	Size		HC2: 130.2mm(L)*22.1mm(W)*121.8mm(H) HC3: 142.2mm(L)*22.1mm(W)*125.6mm(H) HC4: 153.2mm(L)*22.1mm(W)*130.0mm(H)	

VLDM

Video Laryngoscope

Disposable Blades

Real-time recording helps confirm tube placement and facilitate teaching, ergonomic design for more convenient use.

Handle+Blade

Signal Cable

HugeMed Image Processor

Large monitor-Disposable

Progress in view
1024*768 px output provides perfect view of the vocal cords

Anti-fog
Turn on and ready to go, no need to wipe water mist

Ergonomic design
Quick installation and removal of blades; Quick snapshot and video recording button

Benefits
With handle connecting cable, can help operator resist infection from the procedure of intubation, be more convenient for teaching;
With external monitor connecting capability

Application occurrences
Easy to operate in Ambulance, ICU, OR, ER, Teaching hospital, etc.

Multiple models
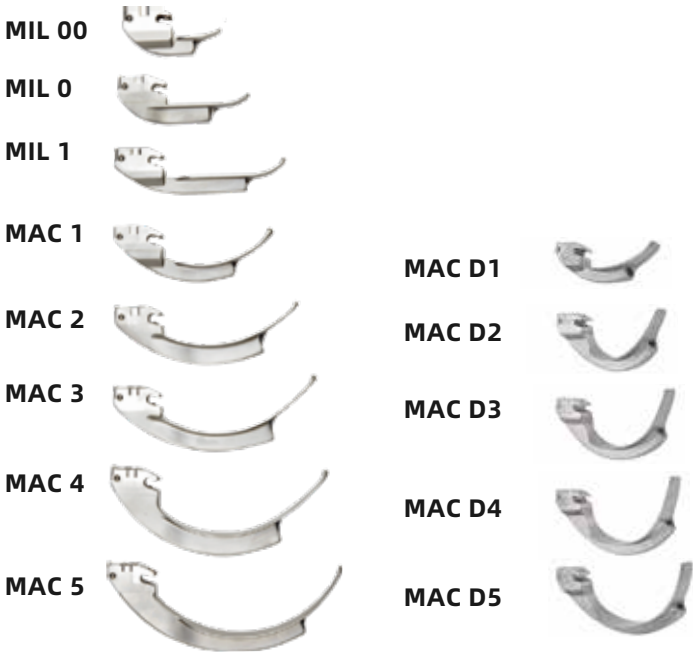5 sizes of single-use blades(additional 3 channeled types CMac3/4/5)

5 types blade

Mac 1

Mac 2

Mac 3

Mac 4

Mac 5

channeled types

CMac 3

CMac 4

CMac 5

Specification		
Model		**VLDM**
Processor	Display size	8 inches LCD processor
	Display ratio	4:3
	Display type	TFT-LCD
	Resolution	1024*768 px
	Memory	Built-in SD card standard 32GB
Camera	Resolution	2M px
	Field Angle	66°
	Illuminance	LED≥400 lx, h=30mm
Battery	Battery Capacity	Rechargeable 6400mAh lithium-ion battery
	Working Time	≥4h
	Battery Life Cycle	≥300 times
	Charging Times	4-6 hours
Blade	Material	Polycarbonate
	Anti-fog	Yes, with anti-fog coating
	Size	MAC1:101mm(L)*18mm(W)*34mm(H) MAC4:136mm(L)*22.5mm(W)*43mm(H) MAC2:115mm(L)*21mm(W)*36.5mm(H) MAC5:149.5mm(L)*23mm(W)*51mm(H) MAC3:126.5mm(L)*21mm(W)*39.5mm(H)
Item code		**1805B-PA008**

VLRM

Reusable Blades

Digital color monitor with LCD-quality resolution
Reusable video laryngoscope with digital-resolution camera, Innovative blade sizing, angulation, and camera positioning, anti-fog feature, with a rapid heating profile to resist lens clouding and secretions

MIL 00

MIL 0

MIL 1

MAC 1   MAC D1

MAC 2   MAC D2

MAC 3   MAC D3

MAC 4   MAC D4

MAC 5   MAC D5

Handle+Blade   Signal Cable   HugeMed Image Processor

Large monitor-Reusable

Progress in view
1024*768 px output provides perfect view of the vocal cords

Anti-fog
Rapid heating advantages to resist lens clouding and secretions

Ergonomic design
Quick installation and removal of blades; Quick screenshot and video recording button

Benefits
With handle connecting cable, can help operator resist infection from the procedure of intubation, more convenient for teaching; With external monitor connecting capability

Application occurrences
Easy to operate in Ambulance, ICU, OR, ER, Teaching hospital, etc.

Multiple models
13 models of reusable blades

Specification		
Model		**VLRM**
Processor	Display size	8 inch LCD processor
	Display ratio	4:3
	Display type	TFT-LCD
	Resolution	1024*768 px
	Memory	Built-in SD card standard 32GB
Camera	Resolution	2M px
	Field Angle	66°
	Illuminance	LED≥400 lx, h=30mm
Battery	Battery Capacity	Rechargeable 6400mAh lithium-ion battery
	Working Time	≥4h
	Battery Life Cycle	≥300 times
	Charging Times	4-6 hours
Blade	Material	SUS316L
	Water Resistance	IPX8
	Anti-fog	Yes, Anti-fog by heating
	Size	Miller00: 72mm(L)*14mm(W)*29.5mm(H) MAC5:149.5mm(L)*23mm(W)*51mm(H) Miller0:84mm(L)*15mm(W)*29.5mm(H) MACD1:96mm(L)*18mm(W)*34mm(H) Miller1:110mm(L)*15mm(W)*29.5mm(H) MACD2:115mm(L)*22mm(W)*50mm(H) MAC1:101mm(L)*18mm(W)*34mm(H) MACD3:127mm(L)*22mm(W)*53mm(H) MAC2:115mm(L)*21mm(W)*36.5mm(H) MACD4:136mm(L)*22mm(W)*57mm(H) MAC3:126.5mm(L)*21mm(W)*39.5mm(H) MACD5:147mm(L)*22mm(W)*59mm(H) MAC4:136mm(L)*22.5mm(W)*43mm(H)
Item code		**1805B-PA009**

VL4DEX

Video Laryngoscope

Advanced-Disposable

Progress in view
1024*768 px output provides perfect view of the vocal cords
Anti-fog
Rapid heating advantages to resist lens clouding and secretions
Ergonomic design
Quick installation and removal of blades; Quick snapshot and video recording button
Benefits
With handle connecting cable, can help operator resist infection from the procedure of intubation, be more convenient for teaching; With external monitor connecting capability
Application occurrences
Easy to operate in Ambulance, ICU, OR, ER, Emergency Medical Services, Teaching hospital, etc.
Multiple models
New 3 medical PC blades design
Anti-cross infection
Vacuum sterile package for one patient

HS 3

HS 2

HS 4

HugeMed Image Processor

300K PX Camera blade

Signal Cable

Specification		
Model		**VL4DEX**
Processor	Display size	8 inches LCD processor
	Display ratio	4:3
	Display type	TFT-LCD
	Resolution	1024*768 px
	Memory	Built-in SD card standard 32GB
Camera	Resolution	300K px
	Field Angle	66°
	Illuminance	LED≥500 lx, h=30mm
Battery	Battery Capacity	Rechargeable 6400mAh lithium-ion battery
	Working Time	≥4h
	Battery Life Cycle	≥300 times
	Charging Times	4-6 hours
Blade	Material	ABS+PC
	Water Resistance	/
	Anti-fog	Yes, with anti-fog coating
	Size	HS 2: 145mm(L)*24mm(W)*130mm(H) HS 3: 140mm(L)*23mm(W)*143mm(H) HS 4:150mm(L)*23mm(W)*152mm(H)
Item code		**2105B-PA001**

VL4REX

Video Laryngoscope

Advanced-Reusable

Progress in view
1024*768 px output provides perfect view of the vocal cords

Anti-fog
Rapid heating advantages to resist lens clouding and secretions

Ergonomic design
Quick installation and removal of blades; Quick snapshot and video recording button

Benefits
With handle connecting cable, can help operator resist infection from the procedure of intubation, be more convenient for teaching; With external monitor connecting capability

Application occurrences
Easy to operate in Ambulance, ICU, OR, ER, Emergency Medical Services, Teaching hospital, etc.

Multiple models
New 3 titanium blades design

Anti-cross infection
Blade and handle form one continuous piece with IPX8 waterproof design for optimum disinfection

HT 3

HT 2

HT 4

2.0M PX Camera blade

Signal Cable

HugeMed Image Processor

Specification		
Model		VL4REX
Processor	Display size	8 inch LCD processor
	Display ratio	4:3
	Display type	TFT-LCD
	Resolution	1024*768 px
	Memory	Built-in SD card standard 32GB
Camera	Resolution	2M px
	Field Angle	66°
	Illuminance	LED≥500 lx, h=30mm
Battery	Battery Capacity	Rechargeable 6400mAh lithium-ion battery
	Working Time	≥4h
	Battery Life Cycle	≥300 times
	Charging Times	4-6 hours
Blade	Material	Titanium
	Water Resistance	IPX8 when waterproof cap is attached
	Anti-fog	Yes, Anti-fog by heating
	Size	HT 2: 127.5mm(L)*20.5mm(W)*146.5mm(H) HT 3: 139.5mm(L)*20.5mm(W)*150.4mm(H) HT 4: 150.5mm(L)*20.5mm(W)*154.8mm(H)
Item code		2103B-PA001

VL3H

Stylet type-Reusable

Efficiency
Processor with 0-140°/0-180° rotation improves efficiency of difficult airway intubation

Ergonomic design
Fixator at the stylet can fix endotracheal tube well

Shapeable stylet
Stylet with Material of Ni-Ti memory alloy can be back to the prototype in 50-60℃ water

N3065   N3965

Stylet type-Disposable

Efficiency
Processor with 0-140°/0-180°rotation improves efficiency of intubation

Ergonomic design
Fixator at the stylet can fix endotracheal tube well

Anti-cross infection
Vacuum sterile package for single use

H5055   H5065   H5075

Specification						
Model		N3065	N3965	H5055	H5065	H5075
Main unit	Type	Reusable		Single-use		
	Display size	3.5 inch LCD processor				
	Display ratio	4:3				
	Pixels	640*480 px				
	Battery	Rechargeable lithium-Ion battery, 3200 mAh; Continuous working time ≥6h				
	Swivel Up and Down	0-130°				
	Swivel Left and Right	0-270°				
Tube	Tube Radian	80mm>R>50mm		R=55mm	R=65mm	R=75mm
	Tube Diameter	3.0 mm	3.9 mm	5.0mm		
	Tube Length	L=280mm	L=350mm	L=350mm		
	Water Resistance	IPX7 when waterproof cap is attached				
Camera	View angle	100°±10%		60°± 5%		
	View depth	3-50mm		20-50mm		
	Camera resolution	160,000 px		160,000 px		
	Illuminance	≥ 400 lx, h=20mm				
Item code		8830B-PA001	8830B-PA002	/	/	/

VL3S

Video Laryngoscope

Camera System
Photo and Video recording function
Easy for clinical teaching and training

Suction Button
Fast Connection; Smooth Suction

Working Channel
Inner diameter:
Several sizes available

Biopsy Valve
Cover the opening to the biopsy port

Display
Horizontal and vertical rotation angle: 120°
HD full view screen.
6 function buttons, USB port,
HDMI port for big display

Quick Handlings
1 lock design
Fast installation and disassembling
Stay firm and efficient

Insertion part
Fracture resistant smooth flexible and durable

Angulation Control
Flexible angulation control
Precise location

Distal tip part
Dual diflections,160° up 130° down
New CMOS Technology
High brightness LED light source

350mm/650mm working length

Flexible type-Reusable

Features
Portable: Completely mobile, compact and space-saving, particularly in the intensive care unit
Ergonomic design
Marvelous balance for superb handling and to reduce fatigue
Application occurrence
Easy to operate in EMS, ICU, OR, ER, NICU, Teaching hospital, etc.
Benefits
Multiple models permit passage through ETT and DLT; Wide field-of-view and angulation range allow easy orientation in the airway observation

Specification

Model		VL3S					
Processor part	Display size	3.5 inches LCD processor					
	Display ratio	4:3					
	Display type	TFT-LCD					
	Resolution	640*480 px					
	Function	USB&HDMI port; White balance					
Battery	Memory	Taking photo and video recording, built-in 32G memory card					
	Battery Capacity	Rechargeable 1800mAh lithium-ion battery					
	Working Time	Continuous working time ≥6h					
	Battery Life Cycle	≥300 times					
Scope	Charging Times	4-6h					
	Field Angle	110°±10%					
	Configuration	Suction port, biopsy port					
	Distal tip part	160°up 130° down					
	Resolution	160,000 px					
	Water Resistance	IPX7 when waterproof cap is attached					
	Insertion tube						
	Insertion tube size	**M58**	**M52**	**M40**	**M39**	**M30**	**M28**
	Outer diameter of Insertion tube(mm)	5.8mm	5.2mm	4.0mm	3.9mm	3.0mm	2.8mm
	Instrument channel inner diameter(mm)	3.0mm	2.6mm	2.0mm	1.2mm	1.2mm	/
	Working length(mm)	650mm	650mm	650mm	650mm	650mm	650mm
	Item code (with processor part)	8820B-PA022	8820B-PA023	/	8820B-PA017	8820B-PA018	8820B-PA025
	Insertion tube size	**M52-1**		**M40-1**		**M39-1**	**M28-1**
	Outer diameter of Insertion tube(mm)	5.2mm		4.0mm		3.9mm	2.8mm
	Instrument channel inner diameter(mm)	2.6mm		2.0mm		1.2mm	/
	Working length(mm)	350mm		350mm		350mm	350mm
	Item code (with processor part)	8820B-PA019		8820B-PA021		8820B-PA020	8820B-PA024

VLMCF
Video Laryngoscope

Portable Reusable

Progress in view
1024*768 px output provides perfect view of the vocal cords
Benefits
Help operator resist infection from the procedure of intubation, be more convenient for teaching; Easy to move
Application occurrences
Easy to operate in Ambulance, ICU, OR, ER, Emergency Medical Services, Teaching hospital, etc.
Multiple models
M28/M30/M39/M40/M52/M58/M28-1/M39-1/M40-1/M52-1 (endoscope size same as VL3S)

Signal cable

Quick plug and unplug

Bending angle

Specification		
Model		**VLMCF**
Processor	Display size	8 inches LCD processor
	Display ratio	4:3
	Display type	TFT-LCD
	Resolution	1024*768 px
	Function	USB&HDMI port; White balance
	Memory	Taking photo and video recording, built-in 32G memory card
Battery	Battery Capacity	Rechargeable 6400mAh lithium-ion battery
	Working Time	Continuous working time ≥4 h
	Battery Life Cycle	≥300 times
	Charging Times	4-6h
Scope	Field Angle	110°±10%
	Configuration	Suction port, biopsy port
	Working length	650/350mm
	Distal tip part	160°up 130° down
	Resolution	160,000 px
	Water Resistance	IPX7 when waterproof cap is attached
	Item code (with processor part)	**1805B-PA012** / **1805B-PA013**
	Item code(scope)	M58 (210-0318-00) M30 (210-0325-00) M52 (210-0317-00) M52-1 (210-0365-00) M28 (210-0058-00) M40 (210-0326-00) M40-1 (210-0414-00) M28-1 (210-0363-00) M39 (210-0057-00) M39-1 (210-0364-00)

MS-8
Image processor

One central system
One processor for all HugeMed's endoscope, can be used in anesthesiology department, OR, ICU, etc.
IT Solution
With DICOM protocol, MS-8 recorded image and video can be transferred to hospital PACS system. This will effectively improve the efficiency of inter-departmental collaboration
More Connection abilities
Type-C connector for scope and data connecting, USB3.0 for faster data transfer, Wired or wireless networks ability; DVI/HDMI/SDI image output ability
Flexible Mobility
No matter on the trolley or on the table, MS-8 can be placed steadily. The machine has been equipped the new trolley which can be use in different occurrences such as OR, ICU, OPD, etc.

Specification		
Model		**MS-8**
Display	Dimension	386.4 (h) x 253.6 (w) x 38.5 (d) mm
	Weight	2.6 kg
	Display size	15.6 inches TFT-LCD
	Display resolution	1080P(1920*1080)px
	Display type	TFT-LCD, touch srceen
	Function	Dual view, WIFI, Brightness control, Contrast control, Using time canculator, etc.
Power supply	Working time	Continuous working time ≥4h
	Memory capacity	64 GB
Item code		**210-0697-00**