Specification: V3



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Ventilator V3 (N0.148-00)



Technical Specification

Physical Characteristics			
Dimensions	1389mm × 528 mm × 697 mm		
	(Height \times Width \times Depth) (including		
	trolley);		
	343.5mm × 312.5 mm × 258 mm		
	(Height \times Width \times Depth)		
	(excluding trolley)		
Weight	60 kg (with all safe working load)		
	10 kg (main unit)		
Air Supply	Integrated ultra-silent turbine		
Screen			
Screen Size:	12.1" TFT touch screen		
Resolution	1280 × 800		
Brightness:	Adjustable		
Ventilator Specification			
Ventilation mode	V-A/C (Volume assist/control)		
	P-A/C (Pressure assist/control)		
	V-SIMV (Volume - Synchronized		
	Intermittent Mandatory		
	Ventilation)		
	P-SIMV (Pressure - Synchronized		
	Intermittent Mandatory		
	Ventilation)		
	CPAP/PSV,		
	DuoVent,		
	APRV,		
	PRVC		
	PRVC-SIMV		
	VS		
	PSV-S/T		
Invasive Mode	V-A/C, P-A/C, V-SIMV, P-SIMV,		
	CPAP/PSV, DuoVent, PRVC, APRV,		
	PRVC-SIMV, VS		
Non-invasive Mode	P-A/C, P-SIMV, CPAP/PSV,		
	DuoVent, APRV, PSV-S/T		

Controlled parameter ra	anges
O ₂ %:	21 - 100% (increments of 1 %)
TV (Tidal Volume):	Adult: 100 - 2200 mL (increments of 10 mL) Pediatric: 20 - 300 mL (increments of 1 mL)
Respiratory Rate (RR):	1 - 100 bpm (increments of 1 bpm)
fSIMV (Ventilation frequency in SIMV mode):	1 - 60 bpm (increments of 1 bpm).
I:E range:	4:1~1:10.
Tinsp (Inspiratory time):	0.10 - 10 s (increments of 0.05 s).
Tslope (Time of Pressure Rising):	0 - 2.00 s (increments of 0.05 s).
High Pressure Time (Thigh)]:	0.2 - 30 s (increments of 0.1 s)
Tlow (Low Pressure Time):	0.2 - 30 s (increments of 0.1 s)
Max inspiratory Time (Timax):	0.20 ~ 15.00 s(increments of 0.1 s)
Tpause:	5 % - 60 % (increments of 5 %), Off
ΔPinsp(Inspiratory pressure):	5 - 80 cmH ₂ O (increments of 1 cmH ₂ O)
ΔPsupp:	0 - 85 cmH ₂ O (increments of 1 cmH ₂ O)
Phigh (High Pressure	0 - 80 cmH₂O (increments of 1
Level):	cmH₂O)
Plow (Low Pressure	0 - 50 cmH₂O (increments of 1
Level):	cmH₂O)
PEEP:	0 - 50 cmH₂O (increments of 1 cmH₂O), Off
Flow trigger	0.5 -15 L/min (increments of 0.1 L/min), Off
Pressure trigger	-10 to - 0.5 cmH $_{\mbox{\scriptsize 2}}O$ (increments of
叹息压力 0-45	0.5 cmH₂O), Off



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Exp % (Expiration termination/trigger	10 - 85% (increments of 5%), Auto	Waveforms	Airway pressure - time, Flow - time, Volume - time
level)		Weaning indicator	
Apnea Ventilation		P0.1	-20 - 0 cmH₂O
TVapnea	Adult: 100 - 2200 mL (increments	NIF (Maximum negative	
·	of 10 mL) Pediatric: 20 - 300 mL	inspiratory pressure)	-45 - 0 cmH₂O
	(increments of 1 mL)	RSBI (Rapid Shallow	
ΔΡαρηεα	5 - 80 cmH ₂ O (increments of 1	Breathing Index)	0 - 999 /(L•min)
	cmH₂O)	Special Function	
RRapnea (Apnea	1 - 80 bpm (increments of 1 bpm)	Manual Breath	
Respiratory Rate)		Expiration Hold	
Apnea Tinsp	0.20 - 10 s (increments of 0.05 s)	Inspiration Hold	
Sigh		Nebulizer	
Sigh Switch	ON, Off	O2个(O2 enrichment)	
Interval	20 s - 180 min (increments of 1 s	Sputum Suction	
	from 20 to 59 s, increments of 1	Smart Pulmonary View	
	min from 1 to 180 min)	Lung Recruitment Tool	Sustained Insufflation
Cycles Sigh	1 - 20 (increments of 1)	PEEPi monitoring	
Δint.PEEP	1 - 45 cmH₂O (increments of 1	-	Paw - Volume, Flow - Volume, Paw
	cmH₂O), Off	P-V Tool	- Flow
Automatic Tube Resista	ance Compensation	Tube Resistance	
Tube Type	endotracheal intubation and	Compensation	TRC
	tracheotomy tube	Smart Sync	IntelliSynTec
Tube I.D.	Adult: 5.0 - 12.0 mm (increments of	O2 Therapy	2-60 L/min
	0.5 mm) Pediatric: 2.5 - 8.0 mm		EtCO2, Vdaw, VDaw/Tve, Vtalv,
	(increments of 0.5 mm)	CO2	V'alv, SlopeCO2, V'CO2, VeCO2,
Compensate	1 -100 % (increments of 1 %) off		ViCO2
Expiration Compensation	ON, Off	Control accuracy	
Switch		O ₂ %	± (3 vol.% +1 % of setting)
Monitoring		TV	± (10 mL + 10% of the set value)
Airway pressure range	Ppeak, Pplat, Pmean (Range -20 -	Tinsp	\pm 0.1 s or \pm 10 % of setting,
	120 cmH₂O)		whichever is greater
PEEP	$0{\sim}$ 120 cmH2O	I: E	1:4~2:1: ± 10% of the set value;
Tidal volume range:	0∼4000 mL		Other range: ± 15% of the set
Respiratory Rate	ftotal, fmand, fspn (Range 0 - 200		value.
	bpm)	RR	±1 bpm
Minute volume range	MV, MVspn, MVleak (Range 0 –	fSIMV	±1 bpm
	100.0 L/min)	Tslope (Rising Time)	± (0.2s + 20% of the set value)
Resistance	Rinsp, Rexp (0 - 600 cmH ₂ O/L/s)	Phigh	\pm (2 cmH2O + 5% of the set value)
Compliance	Cstat, Cdyn (0 - 300 mL/cmH₂O)	Plow	\pm (2 cmH2O + 5% of the set value)
Inspired Oxygen (FiO₂)	15 - 100 %	Thigh	±0.2s or ± 10% of the set value,
WOB (Work of	0 – 100.0 J/min		whichever is larger
Breathing)		Tlow	±0.2s or ± 10% of the set value,
RCexp (Expiratory Time	0 - 10 s		whichever is larger
Constant)			



Pressure Trigger	\pm (1 cmH2O + \pm 10% of the set value)		cmH2O + 20% of the actual reading).
Flow Trigger	± (1 L/min + 10% of the set value)	RSBI	Within the range of 0 $\ /({\sf min}\cdot{\sf L})\sim$
Δint.PEEP	2-45cmH2O± (2 cmH2O + 5% of the set value) (exclude 2)1-2cmH2O±		999 /(min·L) , \pm (3 /(min·L)+15% of the actual reading).
	(1% of the set value)	WOB	Within the range of 0.0 J/min \sim
Exp %	±10% (absolute error)		100.0 J/min, ± (1 J/min + 15% of
Fapnea (Apnea	±1bpm		the actual reading).
Frequency)		NIF	Within the range of -45.0 cmH2O \sim
ΔPapnea	± (2 cmH2O + 5% of the set value)		0.0 cmH2O, ± (2 cmH2O + 4% of
TVapnea	± (10 mL + 10% of the set value)		the actual reading)
Apnea Tinsp	±0.1s or ± 10% of the set value, whichever is larger	P0.1	Within the range of -20.0 cmH20 \sim 0.0 cmH2O, \pm (2 cmH2O + 4% of
Monitoring Accuracy			the actual reading).
Airway pressure (Ppeak, Pplat, Pmean, PEEP)	Within the range of -20cmH2O \sim 120 cmH2O, \pm (2 cmH2O + 4% of the actual reading)	RCexp	Within the range of 0.0s \sim 10.0s, \pm (0.2s + 20 % of the actual reading).
Tidal Volume (TVi, TVe,	Within the range of 0 mL \sim 100 mL,	Alarm Settings	
TVe/IBW, TVe spn)	± (10 mL + 3% of the actual reading);	Tidal Volume	Upper alarm limit Adult: 110~4000 mL, OFF
	Within the range of 100 mL \sim 4000		Pediatric: 25~600 mL, OFF
	mL, ± (3 mL + 10% of the actual reading)		Lower alarm limit Adult: OFF, 50~3995 mL
Minute Volume (MV,	Within the range of 0.0 L/min \sim		Pediatric: OFF, 10~595 mL
MVspn, MVleak)	100.0 L/min, ± (0.2 L/min + 10% of the actual reading)	Minute Volume	Upper alarm limit: Adult: 0.2~100.0 L/min
Frequency (ftotal,	Within the range of 0 bpm \sim 200		Pediatric: 0.2~60.0 L/min
fmand, fspn)	bpm, ±1 bpm or ±5% of the actual		Lower alarm limit: Adult: 0.1~50.0
	reading, whichever is larger		L/min
Inspired Oxygen (FiO₂)	Within the range of 15 vol.% \sim 100		Pediatric: 0.1~30.0 L/min
	vol.%, ± (2.5 vol. % + 2.5% of the	Airway pressure	
	actual reading).	Frequency (Respiratory	
Resistance	Within the range of 0	Rate)	
	cmH2O/(L/s) \sim 5 cmH2O/(L/s), the	Inspired oxygen (FiO₂)	Upper alarm limit: 10~90 cmH2O.
	accuracy is not defined;		Lower alarm limit: OFF,5~ (upper
	Within the range of 5		alarm limit -5) cmH2O
	cmH2O/(L/s) \sim 20 cmH2O/(L/s),	Apnea alarm time	Upper alarm limit: 2~160 bpm, OFF
	±10 cmH2O/(L/s);		Lower alarm limit: OFF,1~(upper
	Within the range of 20	CidoChrone COO	alarm limit -1) bpm
	cmH2O/(L/s) \sim 500 cmH2O/(L/s)	SideStream CO2 modu	
	(exclude 20), ±50% of the actual	Displayed numerics	EtCO ₂
Compliance	reading).	Measurement Range	Comen SideStream: 0 mmHg~150
Compliance	Within the range of 0 mL/ cmH2O \sim 300 mL/ cmH2O, \pm (2 mL/		mmHg, 0% \sim 19.7%, 0 kPa \sim 20 kPa (at 760 mmHg)
			Respironics Capno SideStream: 0



		EtCO₂ Measurement Accuracy	Comen mainstream:
Resolution		EtCO Magazira	vol% (at 760 mmHg);
Waveforms	EtCO ₂ - time		mmHg \sim 190 mmHg, 0 vol% \sim 25
\\\\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	conditions): a) Within the range of 0 mmHg ~114 mmHg, ± (2.25 mmHg + 4% of the reading). b) Within the range of 115 mmHg ~190 mmHg, the accuracy is not defined		Masimo IRMATM mainstream: 0
			kPa \sim 20 kPa (at 760 mmHg);
			mmHg \sim 150 mmHg, 0% \sim 19.7%, 0
			Respironics CAPNOSTAT 5: 0
		<u>-</u>	(at 760 mmHg);
		range	mmHg,0%~19.7%,0 kPa~20 kPa
		EtCO ₂ Measurement	Comen mainstream: 0 mmHg~150
	CO2 accuracy (under all	Displayed numerics	EtCO ₂
	b) Within the range of 114 mmHg \sim 190 mmHg, the accuracy is not defined.	MainStream CO₂ Mod	
			mmHg)
			mmHg \sim (upper alarm limit $^-$ 2
	mmHg + 2% of the reading).		mmHg) Masimo ISA Capno sidestream: 0
	Respironics Capno SideStream: (Note: the gas temperature is 25°C, if respiratory rate is greater than 80 rpm, the accuracy is 12% of the reading): 0 mmHg~38 mmHg: ± 2 mmHg, 39 mmHg~99 mmHg: ± 10% of the actual reading. Masimo ISA Capno SideStream: CO2 accuracy (under the condition: 22°C ±5°C 1013 ± 40 hPa; gas mixture of CO2 and N2.) a) Within the range of 0 mmHg ~114 mmHg, ± (1.52	Limits	mmHg \sim (upper alarm limit $-$ 2
			Respironics Capno sidestream: 0
			(upper alarm limit - 2 mmHg)
		EtCO₂ Alarm Lower Limits	Comen sidestream:0 mmHg \sim
		FtCO. Alarm Lower	
			(lower alarm limit + 2 mmHg) \sim 190 mmHg
			Masimo ISA Capno sidestream:
			mmHg
			Respironics Capno sidestream: (lower alarm limit + 2 mmHg) \sim 99
		Limits	5.
		EtCO ₂ Alarm Upper	Comen sidestream: (lower alarm limit + 2 mmHg) \sim 150 mmHg
		EtCO Alarm Hanar	m sampling line)
	reading.	time)	ISA Capno sidestream: < 3s (use a 2
	mmHg \sim 150 mmHg, \pm 10% of the	Rise time (Response	Masimo mainstream: < 1 s; Masimo
	d) Within the range of 101	Diag time - /D	m sampling line)
	100 mmHg, ± 8% of the reading;		ISA Capno sidestream: < 3s (use a 2
	b) Within the range of 41 mmHg \sim 70 mmHg, \pm 5% of the reading; c) Within the range of 71 mmHg \sim	System response time	Masimo mainstream: < 1 s; Masimo
			rate control accuracy: ± 10 mL/min.
			sampling rate: 50mL/min; sampling
	40 mmHg, ± 2 mmHg;		Masimo ISA Capno SideStream:
	a) Within the range of 0 mmHg \sim		10 mL/min.
Measurement accuracy	Comen SideStream:		sampling rate control accuracy: ±
	vol% (at 760 mmHg)		sampling rate: 50 mL/min;
	mmHg \sim 190 mmHg, 0 vol $\%$ \sim 25		Respironics Capno SideStream:
	Masimo ISA Capno SideStream: 0		accuracy: ± 10mL/min;
	0 kPa \sim 13.2 kPa (at 760 mmHg)	accuracy	50 mL/min; sampling rate control



	a) Within the range of 0mmHg~ 40mmHg, ± 2 mmHg; b) Within the range of 41mmHg~ 70mmHg, ± 5% of the reading; c) Within the range of 71mmHg~ 100mmHg, ± 8% of the reading; d) Within the range of 101mmHg~ 150mmHg, ± 10% of the reading. Respironics CAPNOSTAT 5 mainstream: CO2 accuracy (Note: Temperature :35°C): a) Within the range of 0 mmHg~40 mmHg, ± 2 mmHg; b) Within the range of 41	EtCO₂ Alarm Lower	Respironics CAPNOSTAT 5 mainstream: (lower alarm limit +2mmHg) ~150 mmHg Masimo IRMATM mainstream: (lower alarm limit + 2 mmHg) ~ 190 mmHg Comen mainstream: 0 mmHg ~
		Limits	Comen mainstream: 0 mmHg ~ (upper alarm limit - 2 mmHg) Respironics CAPNOSTAT 5 mainstream: 0 mmHg~ (upper alarm limit - 2 mmHg) Masimo IRMATM mainstream: 0 mmHg~ (upper alarm limit - 2 mmHg)
	mmHg \sim 70 mmHg, $~\pm~$ 5% of the	SpO₂ module:	
	reading; c) Within the range of 71	Display	Pulse rate (PR) waveform/parameter, SpO2
	mmHg \sim 100 mmHg, \pm 8% of the	SpO2 measurement	Nellcor SpO2: 0%~100%
	reading; d) Within the range of 101	range	Masimo SpO2: $1\%{\sim}100\%$ Comen SpO2: $0\%{\sim}100\%$
d) Within the range of 101 mmHg~150 mmHg, ± 10% of the reading. Masimo IRMATM mainstream: CO2 accuracy (under the condition: 22℃ ± 5℃ 1013 ± 40 hPa; gas mixture of CO2 and N2.): a) Within the range of 0 mmHg ~ 114 mmHg, ± (1.52 mmHg + 2% of the reading); b) Within the range of 114 mmHg ~190 mmHg, the accuracy is not defined; CO2 accuracy (under all conditions): a) Within the range of 0 mmHg ~ 114 mmHg, ± (2.25 mmHg + 4% of the reading); b) Within the range of 114 mmHg ~190 mmHg, the accuracy is not defined; Resolution Waveforms EtCO₂ - time, V - CO₂	SpO2 accuracy	Nellcor SpO2: Within the range of $70\%\sim100\%$, Adult/Pediatric measurement accuracy is $\pm2\%$ (during non-motion state); Within the range of $0\%\sim69\%$, measurement accuracy is not defined. Masimo SpO2: Within the range of $70\%\sim100\%$, Adult/Pediatric measurement accuracy is $\pm2\%$ (during non-motion state), $\pm3\%$ (during motion state); Within the range of $1\%\sim69\%$, the measurement accuracy is not defined. Comen SpO2: Within the range of $70\%\sim100\%$, Adult/ Pediatric measurement accuracy is $\pm2\%$ (during non-motion state); Within the range of $0\%\sim69\%$, the measurement accuracy is not defined.	
EtCO ₂ Alarm Upper	Comen mainstream: (lower alarm	PR measurement range	defined. Nellcor SpO2: 20 bpm \sim 300 bpm
Limits	limit + 2 mmHg) \sim 150 mmHg		Masimo SpO2: 25 bpm \sim 240 bpm



PR measurement	Nellcor SpO2: resolution: 1 bpm		alarm limit -1bpm)
resolution	Masimo SpO2: resolution: 1 bpm		Masimo SpO2: 25bpm \sim (Upper
	Comen SpO2: resolution: 1 bpm		alarm limit -1bpm)
PR measurement	Nellcor SpO2: 20 bpm∼250 bpm:		Comen SpO2: 20bpm~(Upper
accuracy	the measurement error should be	Tuesd	alarm limit -1bpm)
	\pm 3 bpm; 251 \sim 300 bpm:	Trend	T. I. C. I.
	measurement accuracy is not	Type	Tabular, Graphic
	defined.	Length	72 hours
	Masimo SpO2: the measurement	Content	Monitor Parameters, Setting
	error should be ±3 bpm (during		Parameters (Setting Ventilation
	non-motion state) and ±5 bpm (during motion state)		mode and Parameters) includes
	Comen SpO2: the measurement		parameter alarm events and
	error should be ±2 bpm		parameter waveforms related to
Perfusion index range	Nellcor SpO2: / (Note: Nellcor SpO2	Data Review	the alarm time
r criusion maex range	module has no perfusion index.)	Event logs	Up to 8000 event logs can be
	Masimo SpO2: $0.02\%\sim20\%$, the	Eventiogs	saved, including alarm logs and
	accuracy is not defined.		operation logs. The alarm log
	Comen SpO2: 0.05%~20%, the		includes parameter alarm events
	accuracy is not defined.		and parameter waveforms related
Data update period	≤ 2 s		to the alarm time.
Signal Quality Index (SIQ)	Masimo SpO2 and Comen SpO2	Freeze the waveform	Freeze the waveform of the
indication function	should come with SIQ indication	review	interface at the current time and
	function		use the knob to review the data.
Regulatory compliance	should conform to the		When freezing, 30 most recent
	requirements of YY0784-2010		historical waveforms can be
Upper SpO2 alarm limit	Nellcor SpO2: (Lower alarm limit		reviewed by sliding the screen or
	+1%)~100%		rotating the knob.
	Masimo SpO2: (Lower alarm limit	Freeze the loop review	Up to 5 reference loops can be
	+1%)~100%		saved.
	Comen SpO2: (Lower alarm limit	O ₂ Therapy	
	+1%)~100%	O ₂ %	15 - 100 % (increments of 1 %) ± (3
Lower SpO2 alarm limit	Nellcor SpO2: 20%~(Upper alarm		vol.% +1 % of setting)
	limit -1%)	Flow	2 - 60 L/min ± (1.5 L/min +10 % of
	Masimo SpO2: 1%~(Upper alarm		setting) (BTPS)
	limit -1%)	Gas Circuit Specification	n
	Comen SpO2: 0%~(Upper alarm	Gas type	Air, O2
	limit -1%)	Gas source requirement	Medical compressed oxygen
Upper PR alarm limit	Nellcor SpO2: (Lower alarm limit +1 bpm) \sim 300 bpm	High-pressure O ₂ source	
	Masimo SpO2: (Lower alarm limit	Gas source pressure	$280{\sim}600 ext{kPa}$
	+1 bpm)~240 bpm	range	
	Comen SpO2: (Lower alarm limit +1	Rated flow rate	120 L/min
	bpm)~254 bpm	requirement	
Lower PR alarm limit	Nellcor SpO2: 25bpm~(Upper	Input connector	NIST (ISO 5356-1) or DISS (CGA
20 Mer i i i didi ii ii iii	(opper		1240)



Standards compliant	YY/T 0799-2010		pediatric disposable breathing
-	EN ISO5359:2008		tube, water collection cup,
Low-pressure O ₂ source			expiratory valve): ≤ 2 mL/cmH2O;
Input pressure range	< 100 kPa		Pediatric reusable circuit (including
Maximum flow rate	15 L/min		inspiratory safety valve, pediatric
Input connector	CPC quick coupling		reusable breathing tube, water
Inspiratory module			_
Peak flow rate	≥ 210 L/min		collection cup, expiratory valve, Y-
Nebulizer connector	Flow rate: 5 L/min \sim 8 L/min		joint): ≤ 2 mL/cmH2O;
Safety pressure of respiration	≤ 12.5 kPa		Neonate reusable circuit (including inspiratory safety valve, neonate
Inspiratory-side external	Coaxial 22 mm/15 mm conical		
connector	connector		reusable breathing tube, water
Removable, sterilizable	can be entirety removed quickly;		collection cup, expiratory valve, Y-
	and can be entirety cleaned and		joint): ≤ 1 mL/cmH2O.
	disinfected.	Inspiratory resistance	≤ 6 cmH2O at the flow rate of 60
Regulatory compliance	YY1040.1-2003		L/min (Adult);
	EN ISO5356-1:2004		≤ 6 cmH2O at the flow rate of 30
Expiratory module			
Expiratory-side external	Coaxial 22 mm/15 mm conical		L/min (Pediatric);
connector	connector		≤ 6 cmH2O at the flow rate of 5
Removable, sterilizable	can be entirety removed quickly; and can be entirety cleaned and		L/min (Neonate).
Kemovable, Stermzable		Expiratory resistance	≤ 6 cmH2O at the flow rate of 60
			L/min (Adult);
	disinfected.		≤ 6 cmH2O at the flow rate of 30
Regulatory compliance	YY1040.1-2003		L/min (Pediatric);
	EN ISO5356-1:2004		≤ 6 cmH2O at the flow rate of 5
System compliance and a	resistance		L/min (Neonate).
Compliance	Adult disposable circuit (including		L/IIIII (Neonate).
	inspiratory safety valve, adult	Basic performance	
	disposable breathing tube, water	Pressure monitoring	-20~120 cmH2O
		range	
	collection cup, expiratory valve): ≤	Safety pressure of	In ventilation state: ≤ 125cmH2O
	4 mL/cmH2O;	system	In non-ventilation state or
	Adult reusable circuit (including		power failure or
	inspiratory safety valve, adult		gas source failure (<0.12MPa): ≤ 14
	reusable breathing tube, water		cmH2O
	collection cup, expiratory valve, Y-		
	joint): ≤ 2 mL/cmH2O;	Environmental specifi Temperature	
	Pediatric disposable circuit		5 - 40 °C (operating); -20 to 60 °C
	(including inspiratory safety valve,		(storage and transport, O₂ sensor:
	(including inspiratory safety valve,		20 to 50°C)



Relative Humidity	5 - 95 % (operating); 5 - 95 % (storage and transport)	Battery type	Build-in Lithium-ion battery, 14.4 VDC, 6700mAh
Power Specification	62 - 106 kPa (operating); 50 -106 kPa (storage and transport)	Battery life	140 min (when a new fully charged battery is used in standard operating mode)
External AC power su	pply		280 min (when two new fully
Input voltage	100 - 240 V		charged batteries are used in
Input frequency	50/60 Hz		standard operating mode)
Input current	1.2 – 0.5 A	I/O	
Fuse	T3AL/250 V	Communication	Rs232, Ethernet, VGA, USB port,
External DC power su	pply	interface	Nurse call
Input voltage	12V	Trolley MC100	
Input current	10A	Dimensions	
Internal battery		Weight	20 kg
Number of batteries	One or Two		
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