



Vista 300

Patient Monitoring Solution

The Dräger Vista 300 is an essential patient monitor for adults, paediatrics, and neonates. It is part of a scalable patient monitoring system that fits securely into your hospital's network to give you all-time data access and optimise your workflows. Vista 300 facilitates enhanced workplace integration in your acute care areas with a comprehensive set of parameters and modules, helping you to improve patient care and outcomes as well as lower costs.

Benefits

Essential monitoring capabilities

The Vista 300 displays up to 13 waveforms in an easy-to-configure layout and offers a core set of essential parameters including 3/5/12 lead ECG, non-invasive blood pressure, respiration and dual temperature. Advanced parameters including three invasive blood pressures, flexible mainstream and sidestream etCO₂ and cardiac output are also available. Users can also add external parameter modules including SCIO, CO₂, BIS, and Masimo, Nellcor or Dräger SpO₂. In addition, NMT parameter can also be added on selected model. A variety of compatible accessories is available as well. The Vista 300 provides seamless connectivity to Dräger Scio anaesthetic gas measurement modules, delivering precise inspiratory and expiratory values.

Fully integrated workstation

The Vista 300 features workplace functionality with a complementary Dräger device, such as a ventilator or anaesthesia machine. In combination with the Vista system components, you'll have access to critical patient information in your complete network as patient data, vital signs and data from therapy devices are automatically uploaded to your HIS. This will help you to reduce technological complexities in your acute care areas and relieve your staff from time-consuming documentation work or manual data entries.

Enhanced workflow efficiencies

The Vista 300 supports the exchange of patient data, for you this means obtaining a rapid assessment, and being able to take better informed decisions. Vista 300 includes integrated decision support tools such as pulse pressure variation for fluid responsiveness, Oxy-CRG for neonatal monitoring, and Bispectral Index Technology for enhanced anaesthesia practices. Additionally, you can configure your screen and with fast access keys and simplified menus you get the data you need right at your fingertips. The integrated bed-to-bed-view also improves data access and visibility for any networked Vista monitor from your current patient's bedside to save you time and optimise your workflows.

System connectivity

Having the ability to securely exchange patient data supports clinical decision-making, reduces manual entry, and helps ensure a complete patient record. For this reason, our Vista 300 can be complemented with different hardware and software solutions so you can access your patients' data from anywhere remotely and inter-departmentally on one network - seamlessly and conveniently. To give you a comprehensive solution, our complementary components are Vista Gateway, Vista CMS, and Vista Spot Check as well as accessories and services. This scalable system allows the exchange of patient information via an HL7 interface, with automatic and wireless documentation of up to 256 patients. The Vista system supports cybersecurity measures to help you develop secure solutions that keep your devices and patient data safe. This includes functionalities such as secure data transfer and encryption, automatic screen timeouts, and user authentication.

Comprehensive Services

Dräger Services go beyond repairing equipment. We support you in increasing the uptime of your equipment while minimising potential costs. Our services and comprehensive consulting ensure maximum performance of your devices and a 100% planning reliability. Your team also receives continuous training with our regular and constantly updated courses to help reduce errors and improve your clinical outcomes.

System Components

D-45196-2021



Vista Central Monitoring System

The Vista Central Monitoring System (CMS) monitors up to 128 patient's vital signs when connected to our Vista monitor series. Conveniently, you can access your patients' data from anywhere at any time remotely and inter-departmentally on one network to exchange and assess patient data quickly for advanced decision support. This helps streamline your workflows while keeping a close eye on your patients.

D-4285-2023



Vista Gateway

Exchange patient information, such as alarms, vital signs, and ADT data with our Vista Gateway monitoring software solution. Vista Gateway transmits all relevant data between the Vista network and your existing hospital network. It offers you automatic and wireless documentation of up to 256 patients - thus reducing manual entries and improving all-time data access, clinical decision-making and patient safety.

D-863-2021



Vista 120 SC

With increasing demands on clinicians, it's essential to have an easy-to-use vital signs monitor that can enhance your clinical processes and help you make informed decisions that can positively impact patient care. Providing both spot check and continuous bedside monitoring capabilities, it's the ideal monitor for your various clinical needs.

Related Products

D-2308-2022



Dräger Atlan® A350/A350 XL

The new platform offers flexibility for most spatial conditions. The high precision piston ventilator supports lung protective ventilation measures and a comprehensive set of parameters assist decision-making support. The Atlan A350/XL can be networked to communicate securely with other networked devices to share data and information that can help to increase efficiency and reduce errors in anaesthesia.

D-44411-2012



Dräger Perseus® A500

The ceiling-mounted version of the Dräger Perseus® A500 combines the award-winning, ergonomic design of the Perseus® A500 with the mobility of a ceiling supply unit (CSU). In combination with Dräger Movita®, this floor-independent anaesthesia device offers a completely flexible and efficient workplace.

D-5762-2018



Dräger Savina® 300

The Dräger Savina® 300 combines the independence and power of a turbine-driven ventilation system with state-of-the-art ventilation modes. The large color touch screen and intuitive operating system that concentrates on essential features make configuration and operation very simple.



Dräger Evita® V800

Experience the next level of ventilator operation. The Evita® V800 combines high performance ventilation with an aesthetic design enabling quick and efficient operation. From the first onset of a lung protective ventilation until the integration of a patient care-centred intensive care workplace.

Technical Data

Classification

Protection class	Class I equipment and internal powered equipment
Degree of protection against electric shock	DEFIBRILLATION-PROOF TYPE CF: ECG (RESP), TEMP, IBP, C.O., SpO ₂ , NIBP, CO ₂ DEFIBRILLATION-PROOF TYPE BF: AG, BIS TYPE BF: NMT
Defibrillation protection	Yes
Liquid ingress protection	IP22
Mode of operation	Continuous
Compliant with standards	IEC 60601-1; IEC 60601-1-2; EN 60601-1; EN 60601-1-2; IEC 80601-2-49

Device specifications

Size (WxHxD)	(381±3) mm × (285±3) mm × (171±3) mm
Weight (standard configuration without battery, accessories and recorder)	< 5.5 kg

Display specifications

Display screen	15.6-inch color TFT
Resolution	1920 x 1080
Maximum number of waveforms	13
Indicator LEDs	1 power LED, 1 AC power LED, 1 alarm LED, 1 battery LED

Recorder

Recorder width	48 mm
Record paper width	50 mm
Paper speed	12.5 mm/s, 25 mm/s, 50 mm/s
Trace	Up to 3

Technical Data

Function configuration

Product	Model	Standard Configuration
Vista 300	A	<ul style="list-style-type: none">• ECG, RESP, TEMP, SpO₂(Dräger), SpO₂(Nellcor), SpO₂(Masimo), NIBP, AG• Wired network, Wi-Fi
	C	<ul style="list-style-type: none">• ECG, RESP, TEMP, SpO₂(Dräger), SpO₂(Nellcor), SpO₂(Masimo) NIBP, IBP, C.O., CO₂(Dräger G2), CO₂(Respironics C5, LoFlo), CO₂(Dräger MCable, MicroStream), BISx, AG, NMT• Wired network, Wi-Fi, recorder

Temperature

Operating	+0 °C to +40 °C (+32 °F to +104 °F)
Transport and storage	-20 °C to +55 °C (-4° F to +131°F)

Relative humidity

Operating	15% RH to 95% RH (non-condensing)
Transport and storage	15% RH to 95% RH (non-condensing)

Ambient pressure

Operating	70 kPa to 106 kPa
Transport and storage	50 kPa to 106 kPa

Power supply

Power supply	100 V to 240 V ~ 50 Hz/60 Hz
	Current ≤ 2.0 A

Battery (optional)

Quantity	2
Capacity	5000 mAh
Battery life	≥ 12 h depending on configuration
Battery charge time	≤ 10 h 100% charge, depending on configuration
Environment temperature	20 to 30 °C
Charge/Discharge cycle	300 times

Technical Data

Data review

Trend data	240 hours at 1 minute 48 hours at 1 second
Alarm events	1000 sets
NIBP measurement data	1200 sets
Full Disclosure	48 hours at 1 second

Wi-Fi Technical Specifications

IEEE	802.11a/b/g/n
Frequency Band	2.4 GHz ISM band & 5 G ISM band
Modulation	OFDM with BPSK, QPSK, 16-QAM, and 64-QAM 802.11b with CCK and DSSS

ECG 3-, 5-, 12-lead monitoring

Complies with IEC 60601-2-25, IEC 60601-2-27	
Lead Mode	3 Electrodes: I, II, III 5 Electrodes: I, II, III, aVR, aVL, aVF, V 10 Electrodes: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
Lead Naming Style	AHA, IEC
Display Sensitivity (Gain Selection)	1.25 mm/mV (×0.125), 2.5 mm/mV (×0.25), 5 mm/mV (×0.5), 10 mm/mV (×1), 20 mm/mV (×2), 40 mm/mV (×4), AUTO gain
Sweep	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Bandwidth (-3dB)	Diagnosis: 0.05 Hz to 150 Hz ST: 0.05 Hz to 40 Hz Monitor: 0.5 Hz to 40 Hz Surgery: 1 Hz to 20 Hz Enhanced: 2 Hz ~ 18 Hz Customized: High-pass Filter and Low-pass Filter (Refer to Changing the ECG Filter Settings)
Notch	In diagnosis, diagnosis 1, monitor, surgery, enhanced and customized modes: 50 Hz/60 Hz (Notch filter can be turned on or off manually)
Differential Input Impedance	> 5 MΩ
Input Signal Range	± 10 mV PP
Recovery Time After Defibrillation	< 5 s (measured without electrodes as IEC60601-2-27:2011, Sect. 201.8.5.5.1 requires.)
Leakage Current of Patient	< 10 μA
Scale Signal	1 mV PP, accuracy is ± 5%

Technical Data

Arrhythmia analysis	Asystole	V-Fib/V-Tach	Couplet
	Vent Rhythm	PVC Bigeminy	PVC Trigeminy
	Tachy	R on T	PVC
	Irr Rhythm	Brady	Missed beat
	Pacer not Pacing	Vent Brady	Pacer not Capture
	VEB	Run PVCs	Acc. Vent Rhythm
	IPVC	Non-Sustain VT	Multiform PVCs
	Pauses/min High	Pause	Afib
	PAC Bigeminy	PVCs High	Low Voltage (Limb)
	Extreme Brady	PAC Trigeminy	Wide QRS Tachy
	Sustain VT	Extreme Tachy	V-Tach

Heart Rate

HR Calculation:	
Range	Adult: 15 bpm to 300 bpm Pediatric/neonatal: 15 bpm to 350 bpm
Accuracy	± 1% or 1 bpm, whichever is greater
Resolution	1 bpm
Sensitivity	≥ 300 μVPP
QRS Detection Range	The detection range has exceeded the requirement described in the standard: Width: 70 ms~ 120 ms for adult Width: 40 ms~ 120 ms for pediatric/neonatal Amplitude: 0.5 mv~5 mv Complied with IEC 60601-2-27: 2011, Sect. 201.12.1.101.15.

PVC

Range	Adult: (0 to 300) PVCs/ min Pediatric/neonatal: (0 to 350) PVCs/min
Resolution	1 PVCs/min

Pause/min

Range	Adult/Pediatric/Neonatal: (0 to 30) pauses/min
Resolution	1 pause/min

ST value

Range	-2.0 mV to +2.0 mV
Resolution	0.01 mV
Accuracy	-0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified.

QT measurement

Range	200 ms ~ 800 ms
Resolution	4 ms

Technical Data

Accuracy	± 30 ms
QTc measurement	
Range	200 ms ~ 800 ms
Resolution	1 ms
ΔQTc measurement	
Range	-600 ms ~ 600 ms
Resolution	1 ms

RESP

Method	Impedance between RA-LL, RA-LA
Measurement lead	Options are lead I and II. The default is lead II.
Calculation Type	Manual, Automatic
Baseline Impedance Range	200 Ω to 2500 Ω (with ECG cables of 1 KΩ resistance)
Measuring Sensitivity	Within the baseline impedance range: 0.3 Ω
Waveform Bandwidth	0.2 Hz to 2.5 Hz (-3 dB)
Respiration Excitation Waveform	Sinusoid, 45.6 kHz(±10%), <350 μA
RR Measuring Range	0 rpm to 200 rpm
Resolution	1 rpm
Accuracy	0 rpm to 120 rpm: ±1 rpm 121 rpm to 200 rpm: ±2 rpm
Gain Selection	x0.25, x0.5, x1, x2, x3, x4, x5
Sweep	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
No Breath Detected Alarm Time Setup	10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s; default value is 20 s

NIBP

Complies with IEC 80601-2-30.	
Method	Oscillometric
Mode	Manual, auto, continuous, sequence
Measuring interval in auto mode (unit: minutes)	1/2/2.5/3/4/5/10/15/30/60/90/120/180/240/360/480
Continuous	5 min, interval is 5 s
Measuring parameter	SYS, DIA, MAP, PR
Alarm parameter	SYS, DIA, MAP, PR
Pressure unit	kPa, mmHg, cmH2O
Adult mode	SYS: 25 mmHg to 290 mmHg DIA: 10 mmHg to 250 mmHg MAP: 15 mmHg to 260 mmHg

Technical Data

Pediatric mode	Sys: 25 mmHg to 240 mmHg DIA: 10 mmHg to 200 mmHg MAP: 15 mmHg to 215 mmHg
Neonatal mode	SYS: 25 mmHg to 140 mmHg DIA: 10 mmHg to 115 mmHg MAP: 15 mmHg to 125 mmHg
Cuff pressure measuring range	0 to 300 mmHg
Pressure resolution	1 mmHg
Maximum mean error	±5 mmHg
Maximum standard deviation	8 mmHg
Adult/pediatric	120 s
Neonatal	90 s
Typical measuring period	20 to 35 s (depend on HR/motion disturbance)

SpO₂ (Dräger Module)

Dräger Module complies with ISO 80601-2-61.	
Measuring range	0% to 100%
Resolution	1%
Data update period	1 s
Adult/pediatric	±2% (70% to 100% SpO ₂) Undefined (0% to 69% SpO ₂)
Neonatal	±3% (70% to 100% SpO ₂) Undefined (0% to 69% SpO ₂)
Red light	(660±3) nm
Infrared light	(905±10) nm
Emitted light energy	<15 mW
PI (Perfusion Index):	
Measuring range	0.05 to 20%, invalid PI value is -?-
Resolution	0.1% (10.0% to 20.0%) 0.01% (0.05% to 9.99%)

SpO₂ (Masimo Module)

Measuring Range	1% to 100%
Resolution	1%
Accuracy:	

Technical Data

Adult /Pediatric	During no motion condition	±2% (70% to 100% SpO ₂) Unspecified (0% to 69% SpO ₂)
	During motion condition	±3% (70% to 100% SpO ₂) Unspecified (0% to 69% SpO ₂)
Neonate	During no motion condition	±3% (70% to 100% SpO ₂) Unspecified (0% to 69% SpO ₂)
	During motion condition	±3% (70% to 100% SpO ₂) Unspecified (0% to 69% SpO ₂)
Low Perfusion Performance:		
	> 0.02% pulse amplitude and %transmission > 5%	Saturation (% SpO ₂): ±2 Pulse Rate: ±3
Averaging Time (s)	2-4, 4-6, 8, 10, 12, 14, 16	
Sensitivity	Normal, APOD, Max	
PI:		
Measurement Range	0 to 20%	
Resolution	1% (10% ≤ PI ≤ 20%) 0.1% (1% ≤ PI < 10%) 0.01% (PI < 1%)	

SpO₂ (Nellcor Module)

Nellcor Module	
Measuring range	1% to 100%
Resolution	1%
SI	0 to 25.5
Data update period	1 s

TEMP

Complies with ISO 80601-2-56

Technique	Thermal resistance
Position	Skin, oral cavity, rectum
Channel	2
Sensor type	YSI-10K, YSI-2.252K
Unit	°C, °F
Measuring range	0 °C to +50 °C (+32 °F to +122 °F)
Resolution	+0.1 °C (+0.1 °F)
Accuracy	+25 °C to +45 °C: ±0.2 °C (±0.36 °F) Other range: ±0.3 °C (±0.54 °F)
Sensor accuracy	+25 °C to +45 °C: ±0.1 °C (±0.18 °F) Other range: ±0.2 °C (±0.36 °F)

Technical Data

Accuracy without sensor	±0.1 °C (± 0.18 °F)
Measuring mode	Direct mode
Transit response time ¹	≤ 30 s

Note 1: The claimed response time is valid without probe covers.

PR

		Measuring range	Accuracy	Resolution
PR (SpO ₂)	Dräger	25 bpm to 300 bpm	±2 bpm	1 bpm
	Nellcor	20 bpm to 300 bpm	±3 bpm (20 bpm to 250 bpm)	1 bpm
	Masimo	25 bpm to 240 bpm	±3 bpm (During no motion condition) ±5 bpm (During motion condition)	1 bpm
PR (NIBP)	Dräger	40 bpm to 240 bpm	±3 bpm or 3.5% whichever is greater	1 bpm
PR (IBP)	Dräger	20 bpm to 300 bpm	30 bpm to 300 bpm: ±2 bpm or ±2% whichever is greater	1 bpm
			20 bpm to 29 bpm: undefined	

IBP

Complies with IEC 60601-2-34.		
Technique	Direct invasive measurement	
Channel	3 channels	
IBP Measure	Measuring Range	(-50 to +360) mmHg
	Resolution	1 mmHg
	Accuracy (not including sensor)	± 2% or ±1 mmHg, whichever is greater
PPV	Measuring Range	0% to 50%
Pressure Unit		kPa, mmHg, cmH ₂ O
Pressure sensor:		
Sensitivity		5 µV/V/mmHg
Impedance Range		300 Ω to 3000 Ω
Filter		DC~ 12.5 Hz; DC~ 40 Hz
Zero		Range: ±200 mmHg

Technical Data

Pressure Calibration Range	IBP (excluding ICP)	80 mmHg to 300 mmHg
	ICP	10 mmHg to 40 mmHg
Volume Displacement		7.4 x 10 ⁴ mm ³ / 100mmHg

CO₂ (G2 Module)

G2 Module complies with ISO 80601-2-55

Intended patient	Adult, pediatric, neonatal	
Measure parameters	etCO ₂ , FiCO ₂ , AwRR	
Unit	mmHg, %, kPa	
Measuring range	etCO ₂	0 mmHg to 150 mmHg
	FiCO ₂	0 mmHg to 50 mmHg
	AwRR	0 rpm to 150 rpm
Resolution	etCO ₂	1 mmHg
	FiCO ₂	1 mmHg
	AwRR	1 rpm

Accuracy	etCO ₂	±2 mmHg, 0 mmHg to 40 mmHg	Typical conditions: Ambient temperature: (25±3) °C (77±37.4) °F Barometric pressure: (760±10) mmHg Balance gas: N ₂ Sample gas flowrate: 100 ml/min
		±5% of reading, 41 mmHg to 70 mmHg	
±8% of reading, 71 mmHg to 100 mmHg			
±10% of reading, 71 mmHg to 100 mmHg			
±12% of reading or ±4 mmHg whichever is greater	All conditions		
	AwRR	± 1 rpm	
Drift of measure accuracy	Meets the requirements of the measure accuracy		

Sample gas flowrate	50 ml/min, 70 ml/min or 100 ml/min (default) accuracy: ±15 ml/min
Warm-up time	Display reading within 20 s; reach to the designed accuracy within 2 minutes
Rise time	<400 ms (with 2 m gas sampling tube, sample gas flowrate: 100 ml/min)
	<500 ms (with 2 m gas sampling tube, sample gas flowrate: 70 ml/min)
	<1000 ms (with 2 m gas sampling tube, sample gas flowrate: 50 ml/min)

Technical Data

Response time	<4 s (with 2 m gas sampling tube, sample gas flowrate: 100 ml/min & 70 ml/min)
	<5.5 s (with 2 m gas sampling tube, sample gas flowrate: 50 ml/min)
Work mode	Standby, measure
O ₂ compensation	Range: 0% to 100 % Resolution: 1% Default: 16%
N ₂ O compensation	Range: 0% to 100% Resolution: 1% Default 0%
AG compensation	Range: 0% to 20% Resolution: 0.1% Default 0%
Zero	Support
Calibration	Support (It is recommend to be operated by trained personal)
Alarm	etCO ₂ , FiCO ₂ , AwRR
No breath detected (Alarm delay)	10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s, 60 s; default value is 20 s
Data sample rate	100 Hz

CO₂ Dräger MCable Mainstream CO₂ Module

Measure Parameters	etCO ₂ , FiCO ₂ , AwRR	
Unit	mmHg, %, Kpa	
Measuring Range:		
etCO ₂	0 to 13.4 Vol%	
	0 to 13.6 kPa (at 1013 hPa)	
	0 to 102 mmHg (at 1013 hPa)	
FiCO ₂	0 to 13.4 Vol%	
	0 to 13.6 kPa (at 1013 hPa)	
	0 to 102 mmHg (at 1013 hPa)	
AwRR	0 rpm to 150 rpm (PGM algorithm)	
Resolution	etCO ₂	1 mmHg
	FiCO ₂	1 mmHg
	AwRR	1 rpm

Technical Data

etCO ₂ Accuracy	<p>Reusable cuvette:</p> <p>-20 to 40 °C (-4 to 104 °F) $< \pm(0.43 \text{ Vol\%} + 8 \% \text{ relative})$ $(< \pm[0.44 \text{ kPa} + 8 \% \text{ relative, at } 1013 \text{ hPa}])$ $(< \pm[3.3 \text{ mmHg} + 8 \% \text{ relative, at } 1013 \text{ hPa}])$</p> <p>40 to 50 °C (104 to 122 °F) $< \pm(0.60 \text{ Vol\%} + 5 \% \text{ relative})$ $(< \pm[0.61 \text{ kPa} + 5 \% \text{ relative, at } 1013 \text{ hPa}])$ $(< \pm[4.6 \text{ mmHg} + 5 \% \text{ relative, at } 1013 \text{ hPa}])$</p>	
	<p>Disposable cuvette: $< 0 \text{ °C} (+ 32 \text{ °F})$ and $> 40 \text{ °C} (104 \text{ °F})$.</p> <p>-20 to -10 °C (-4 to 14 °F) $< \pm(0.70 \text{ Vol\%} + 22 \% \text{ relative})$ $(< \pm[0.71 \text{ kPa} + 22 \% \text{ relative, at } 1013 \text{ hPa}])$ $(< \pm[5.3 \text{ mmHg} + 22 \% \text{ relative, at } 1013 \text{ hPa}])$</p> <p>-10 to 0 °C (14 to 32 °F) $< \pm(0.43 \text{ Vol\%} + 13 \% \text{ relative})$ $(< \pm[0.44 \text{ kPa} + 13 \% \text{ relative, at } 1013 \text{ hPa}])$ $(< \pm[3.3 \text{ mmHg} + 13 \% \text{ relative, at } 1013 \text{ hPa}])$</p> <p>0 to 40 °C (32 to 104 °F) $< \pm(0.43 \text{ Vol\%} + 8 \% \text{ relative})$ $(< \pm[0.44 \text{ kPa} + 8 \% \text{ relative, at } 1013 \text{ hPa}])$ $(< \pm[3.3 \text{ mmHg} + 8 \% \text{ relative, at } 1013 \text{ hPa}])$</p> <p>40 to 50 °C (104 to 122 °F) $< \pm(0.70 \text{ Vol\%} + 22 \% \text{ relative})$ $(< \pm[0.71 \text{ kPa} + 22 \% \text{ relative, at } 1013 \text{ hPa}])$ $(< \pm[5.3 \text{ mmHg} + 22 \% \text{ relative, at } 1013 \text{ hPa}])$</p>	
Operation Mode	Measure, standby	
O ₂ Compensation:		
Range	0% to 100%	
Resolution	1%	
Default	16%	
N ₂ O Compensation:		
Range	0% to 100%	
Resolution	1%	
Default	0%	
He Compensation:		
Range	0% to 100%	
Resolution	1%	
Default	0%	

Technical Data

Xe Compensation:	
Range	0% to 100%
Resolution	1%
Default	0%
Zero Calibration	Support
Alarm Type	etCO ₂ , FiCO ₂ , AwRR
Apnea Alarm Delay	10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s; default value is 20 s.
Ramp-up time (t10...90)	< 50 ms
Time until availability	< 15 s
Time until specified accuracy is attained (warm-up phase)	< 180 s (at 23 °C and valid zeroing)
Data Reporting Rate	10 ms or 20 ms
Response Time	< 200 ms
Cross-sensitivities	No cross-sensitivities to: Ethanol, isopropanol, acetone, methane, NO, CO, nitrous oxide, halothane, enflurane, isoflurane, sevoflurane, desflurane, xenon, helium, argon Cross-sensitivities to: Water vapor: < 0.1 Vol% at 37 °C saturation

CO₂ Microstream CO₂ Module

Intended Patient	Adult, pediatric, neonatal
Measure Parameters	etCO ₂ , FiCO ₂ , AwRR
Unit	mmHg, %, kPa
Measuring Range:	
etCO ₂	0 mmHg to 99 mmHg
FiCO ₂	0 mmHg to 99 mmHg
AwRR	0 rpm to 150 rpm
Resolution:	
etCO ₂	1 mmHg
FiCO ₂	1 mmHg
AwRR	1 rpm
CO ₂ Partial Pressure Accuracy	0 to 38 mmHg: ± 2 mmHg ^{1,2,3} 39 to 99 mmHg: ± [5% of expected reading + 0.08 × (expected reading in mmHg - 39 mmHg)] ^{1,2,3}

Technical Data

Accuracy in presence of interfering gases as required by ISO 80601-2-55

The accuracy in presence of interfering gases is within 4% of the accuracy values above; therefore:

0 to 38 mmHg: $\pm (2 \text{ mmHg} + 4\% \text{ of expected reading in mmHg})$
 39-99 mmHg: $\pm [9\% \text{ of expected reading in mmHg} + 0.08 \times (\text{expected reading in mmHg} - 39 \text{ mmHg})]$ 0 to 38 mmHg
 $\pm (2 \text{ mmHg} + 4\% \text{ of expected reading in mmHg})$ in the presence of up to 80% helium with up to 15% oxygen
 39-99 mmHg: $\pm [9\% \text{ of expected reading in mmHg} + 0.08 \times (\text{expected reading in mmHg} - 39 \text{ mmHg})]$ in the presence of up to 80% helium with up to 15% oxygen

AwRR Accuracy	0 to 70 rpm: $\pm 1 \text{ rpm}$ 71 to 120 rpm: $\pm 2 \text{ rpm}$ 121 to 150 rpm: $\pm 3 \text{ rpm}$
Waveform Sampling	20 samples/second
Flow Rate	50 mL per minute (tolerance ± 5), flow measured by volume
Leakage Rate	Less than 40 mbar per minute when a 30% vacuum is invoked on the flow system
System Response:	
Rise Time	<190 ms
Delay Time:	<2.7 s
Warm-Up Period	Includes power-up time (10 seconds maximum) and initialization time (180 seconds)
Compression	BTPS is the standard correction used by Microstream capnography during all measurement procedures for body, temperature, pressure, and saturation

C.O.

Technique	Thermodilution Technique
Measure Parameters	C.O., TB, TI
Measuring Range:	
C.O.	0.1 L/min to 20 L/min
TB	+23 °C to +43 °C(+73.4 °F to +109.4 °F)
TI	-1 °C to +27 °C(+30.2 °F to +80.6 °F)
Resolution:	
C.O.	0.01 L/min
TB, TI	+0.1 °C (+0.1 °F)
Accuracy:	
C.O.	$\pm 5\%$ or $\pm 0.2 \text{ L/min}$, whichever is greater
TB	$\pm 0.1 \text{ °C} (\pm 32.18 \text{ °F})$ (not including sensor)
TI	$\pm 0.1 \text{ °C} (\pm 32.18 \text{ °F})$ (not including sensor)

Technical Data

BIS

Complies with IEC 60601-2-26			
Technique	Bispectral index, power spectrum analysis		
Measure Parameters	Primary Parameter	BIS	0 to 100
	Secondary Parameters	SQI	0% to 100%
		SR	0% to 100%
		EMG	30 dB to 80 dB
		SEF	0.5 Hz to 30.0 Hz
		TP	40 dB to 100 dB
		BC (Applicable to BIS™ Extend Sensor and Bilateral Sensor)	0 to 30
		ASYM (Available only with BISx4 and Bilateral Sensor)	0% to 100%
Sweep Speed	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s		
BIS Trend	6 min, 12 min, 30 min, 60 min		
Smoothing Rate	10 s, 15 s, 30 s		
Noise (EEG Waveform)	< 0.3 μ V (0.25 Hz to 50 Hz)		
EEG Bandwidth	0.25 Hz to 100Hz (-3 dB) \pm 10%		
BIS Alarm Range	0 to 100		

NMT

Complies with IEC 60601-2-10	
Stimulations	TOF (Train Of Four), T1/T4 and Tref/T4 calculations AUTO TOF (programmed from 15 s to 15 min) PTC (Post Tetanic Count)
Stimulation Current	20 to 60 mA Resolution: 1 mA
TOFcnt (TOF Count)	0 to 4
TOFrat (TOF Ratio)	0 to 100%
PTCcnt (PTC Count)	0 to 10

Interfaces (Analog Output)

Bandwidth (-3dB; reference frequency: 10Hz)	Monitor: 0.5 Hz to 40 Hz Diagnosis: 0.5 Hz to 40 Hz Diagnosis 1: 0.05 Hz to 40 Hz Surgery: 1 Hz to 20 Hz Enhanced: 2 Hz ~ 18 Hz Customized: When Low-pass Filter < 40 Hz, Bandwidth is High-pass Filter ~ Low-pass Filter; When Low-pass Filter > 40 Hz, Bandwidth is High-pass ~ 40 Hz.
Maximum Transmission Delay (Diagnosis Mode)	500 ms

Technical Data

Sensitivity	1 V/1 mV ±10%
PACE Rejection/ Enhancement	Support PACE rejection or enhancement
Waveform Display	Consistent with the calculation leads.
Compliant with Standard and Directive	Complies with the requirements in terms of short circuit protection and leakage current in EN60601-1.
Output Impedance	<500 Ω
Interface Type	PS2 connector

Defibrillator synchronisation

Output Impedance	<500 Ω
Maximum Time Delay	35 mS (R-wave peak to leading edge of pulse)
Waveform	Rectangular wave
Amplitude	High level: 3.5 V to 5.5 V, providing a maximum of 1mA output current; Low level: <0.5 V, receiving a maximum of 5mA input current
Minimum Required R-wave Amplitude	0.3 mV
Pulse Width	100 mS±10%
Limited Current	15 mA rating
Rising and Falling Time	<1 μs
Interface Type	PS2 connector

Nurse Call

Drive Mode	Voltage output
Power Supply	≤ 12 VDC, 200 mA Max.
Interface Signal	12 V power supply and PWM waveform
Interface Type	PS2 connector

Video Output Interface

Interface type	HDMI A-type port
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Network Interface

Specification	100-Base TX (IEEE802.3)
Interface Type	Standard RJ-45 network interface
HL7	XML format
	The data transmission will be finished within 8 s. The actual time will depend on the XML file size.

Ordering Information

Vista 300 Non-Invasive Model A	2601966
Vista 300 Invasive Model C	2601967
Vista 300 Non-Invasive Model A Brasil	2601066
Vista 300 Invasive Model C Brasil	2601067

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