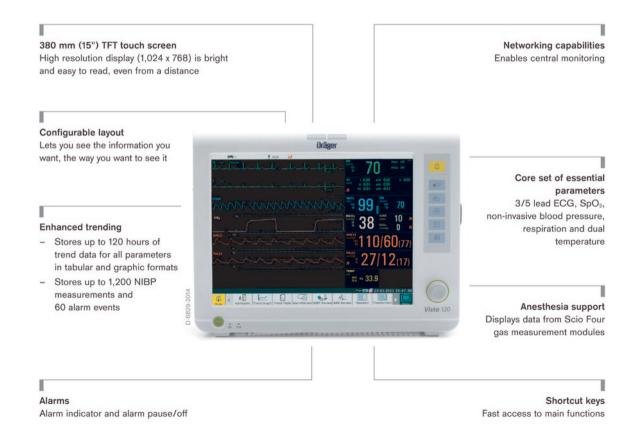


Vista 120 Patient Monitoring Solution

Hospitals have a common challenge: provide the best care possible in an environment where patient populations are growing, financial constraints are increasing and caregivers are overburdened. Dräger offers a patient monitor to meet the clinical needs in these environments: the Vista 120.



Benefits

Essential monitoring capabilities, exceptional value

The Vista 120 displays up to eleven waveforms in an easy-to-configure layout and offers a core set of essential parameters including 3/5 lead ECG, non-invasive blood pressure, respiration and dual temperature comes standard. Advanced parameters including two invasive blood pressures, Mainstream etCO₂ and Cardiac Output are also available.

Clear view of patient data

The Vista 120 has a 380 mm (15") color touchscreen display that offers easy viewing of up to eight channels.

Supports workflow efficiently and cost-effectively

The Vista 120 is easy to learn and easy to use. You can configure the display to see the information you want to see, the way you want to see it. Fast access keys and simplified menus put the data you need right at your fingertips.

Built-in recorder

The Vista 120 has an integrated recorder that prints out up to three channels of information – saving time by providing documentation when and where you need it.

Standard built-in gas interface

The Vista 120 provides seamless connectivity to Dräger Scio anesthetic gas measurement modules delivering precise inspiratory and expiratory values.

Dräger heritage of quality

At Dräger, every life is unique. Protecting, supporting and saving lives is the foundation of our company philosophy. Our goal is to provide product and solutions that support acute care, help improve patient outcomes, reduce costs and achieve greater overall patient satisfaction.

Related Products



Vista 120 Central Monitoring System

The easy-to-use Vista 120 Central Monitoring System (CMS) lets you centrally monitor the vital signs of up to 64 patients connected to Vista 120/Vista 120 S bedside monitors. This central surveillance streamlines workflow for clinicians, while significantly increasing patient safety.

SUPPORTED PARAMETERS

ECG			
Lead mode	3-lead wire: I, II, III		
	5-lead wire: I, II, III, aVR, aVL, aVF, V		
Waveform	3-lead wire: 1-channel waveform		
	5-lead wire: 2-channel waveform, max. seven waveforms		
Lead naming style	AHA, IEC		
Display sensitivity	1.25 mm/mV (x0.125), 2.5 mm/mV (x0.25), 5 mm/mV (x0.5),		
	10 mm/mV (x1), 20 mm/mV (x2), AUTO gain		
Sweep	6.25, 12.5, 25, 50 mm/s		
Bandwidth (-3dB)	Diagnosis: 0.05 to 150 Hz		
	Monitor: 0.5 to 40 Hz		
	Surgery: 1 to 20 Hz		
CMRR	Diagnostic: > 95 dB		
(Common Mode Rejection Ratio)	Monitor: > 105 dB		
	Surgery: > 105 dB		
Notch	50 Hz/60 Hz (Notch filter can be selected manually)		
Differential input impendance	> 5 MΩ		
Input signal range	±8 mV _{PP}		
Electrode offset potential tolerance	±500 mV		
Auxiliary current	Active electrode: < 100 nA		
Leads off detection)	Reference electrode: < 900 nA		
nput offset current	≤ 0.1μA		
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 μΑ		
Scale signal	1 mV _{PP} , accuracy is ±5		
System noise	< 30 μV _{PP}		
ESU protection	Cut mode: 300 W		
·	Coagulation mode: 100 W		
	Recovery time: ≤ 10 s		
ESU noise suppression	Tested according to the test method in ANSI/AAMI EC13-2002		
	Sect. 5.2.9.14, it accords with the standard		
Minimum Input Slew Rate (Lead II)	> 2.5 V/s		
Pace pulse			
Pulse indicator	Pulse is marked if the requirements of IEC 60601-2-27: 2011,		
	Sect. 201.12.1.101.12 are met: Amplitude: ±2 mV to ±700 mV		
	Width: 0.1 ms to 2.0 ms Ascending time: 10 μs to 100 μs		
Pulse rejection	Pulse is rejected if the requirements of IEC 60601-2-27: 2011,		
,	Sect. 201.12.1.101.13 are met: Amplitude: ±2 mV to ±700 mV		
	Width: 0.1 ms to 2.0 ms Ascending time: 10 μs to 100 μs		
Upout rate			
Heart rate Range	ADU: 15 to 300 bpm		
nungo	PED/NEO: 15 to 350 bpm		
Accuracy	±1% or ±1 bpm, whichever is greater		
Resolution	1 bpm		
Sensibility	≥ 300 µV _{PP}		

ADU: 0 to 300 PVCs/min
PED/NEO: 0 to 350 PVCs/min
1 PVCs/min or 2% of measurement, whichever is greater
1 PVCs/min
-2.0 to 2.0 mV
-0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater.
- 0.01 IIIV
Heart rate is computed by excluding the minimum and maximum values from the 12 most recent RR intervals and averaging the residual 10 RR intervals.
If each of three consecutive RR intervals is greater than 1,200 ms
then the four most recent RR intervals are averaged to compute the HR.
Adult: RR interval for 5 consecutive QRS complex ≤ 0.5 s. Pediatric/neonatal: RR interval for 5 consecutive QRS complex ≤ 0.375 s.
Adult: 0.5 s < RR interval for 5 consecutive QRS complex < 1.5 s Pediatric/neonatal: 0.375 s < RR interval for 5 consecutive QRS complex < 1 s.
Adult: RR interval for 5 consecutive QRS complex ≥ 1.5 s. Pediatric/neonatal: RR interval for 5 consecutive QRS complex ≥ 1 s.
The interval of 5 consecutive ventricular complexes is less than
600 ms
The interval of 5 consecutive ventricular complexes ranges from 600 ms to 1,000 ms
The interval of 5 consecutive ventricular complexes is higher than 1,000 ms
Gain 0.5: 10 s
Gain 1.0: 10 s
Gain 2.0: 10 s
Gain 0.5: 10 s
Gain 1.0: 10 s
Gain 2.0: 10 s
HR range: 80 to 120 bpm
Range: Within 11 s
HR range: 80 to 40 bpm
Range: Within 11 s
Complied with IEC 60601-2-27: 2011, Sect. 201.12.1.101.17
minimum recommended 1.2 mV T-Wave amplitude
<u>`</u>
Complied with IEC 60601-2-27: 2011,
<u>`</u>

	Ventricular bigeminy: 80 ±1 bpm		
	Slow alternating ventricular bigeminy: 60 ±1 bpm		
	Rapid alternating ventricular bigeminy: 120 ±1 bpm		
	Bidirectional systoles: 91 ±1 bpm		
Respiration			
Method	Impedance between RA-LL, RA-LA		
Baseline impedance range	200 Ω to 2,500 Ω (with ECG cables of 1 KΩ resistance)		
Measuring sensitivity	Within the baseline impedance range: 0.3 Ω		
Waveform bandwidth			
	0.2 to 2.5 Hz (-3 dB)		
RR measuring and alarm range:	Adult: 0 to 120 rpm		
Pacalutian	Neo/Ped: 0 to 150 rpm		
Resolution	1 rpm		
Accuracy	Adult: 6 rpm to 120 rpm: ±2 rpm		
	0 rpm to 5 rpm: not specified		
	Neo/Ped: 6 rpm to 150 rpm: ±2 rpm		
Gain selection	0 rpm to 5 rpm: not specified		
Gain selection	x0.25, x0.5, x1, x2, x3, x4, x5		
NIBP			
Method	Oscillometric		
Mode	Manual, Auto, Continuous		
Measuring interval in auto mode	1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 240, and 480 min		
Continuous	5 min, interval is 5 s		
Measuring type	Systolic Pressure, Diastolic Pressure, Mean Pressure		
Alarm type	SYS, DIA, MAP		
Measuring and alarm range			
Adult mode	SYS: 40 to 270 mmHg		
	DIA: 10 to 215 mmHg		
	MAP: 20 to 235 mmHg		
Pediatric mode	SYS: 40 to 230 mmHg		
	DIA: 10 to 180 mmHg		
	MAP: 20 to 195 mmHg		
Neonatal mode	SYS: 40 to 135 mmHg		
	DIA: 10 to 100 mmHg		
	MAP: 20 to 110 mmHg		
Cuff pressure measuring range	0 to 300 mmHg		
Pressure resolution	1 mmHg		
Maximum standard deviation	8 mmHg		
Maximum measuring period			
Adult/Pediatric	120 s		
Neonate	90 s		
Typical measuring period	20 to 35 s (depend on HR/motion disturbance)		
01	· · · · · · · · · · · · · · · · · · ·		
Overpressure protection Adult	297 ±3 mmHg		
Pediatric	240 ±3 mmHg		
Neonatal	147 ±3 mmHg		
Toonald	147 ±0 IIIIII Ig		
PR			
Measuring range	40 to 240 bpm		
Accuracy	±3 bpm or 3.5%, whichever is larger		

SpO ₂			
Measuring range	0 to 100%		
Resolution	1%		
Accuracy			
Adult (including Pediatric)	±2% (70 to 100% SpO ₂)		
Addit (including Fediatric)	Undefined (0 to 69% SpO ₂)		
Nameta	<u> </u>		
Neonate	±3% (70 to 100% SpO ₂)		
	Undefined (0 to 69% SpO ₂)		
PI			
Measuring Range	0-10, invalid PI value is 0.		
Resolution	1		
Pulse rate			
Pulse rate measuring range	25 to 300 bpm		
Alarm range	30 to 300 bpm		
Accuracy	±2 bpm		
Accuracy	τz υριιι		
Nellcor Module			
Measuring Range	1% to 100%		
Alarm Range	20% to 100%		
Resolution	1%		
Data update period	1s		
Accuracy (70% to 100% SpO ₂):			
DS-100A, OXI-A/N(Adult)	±3%		
OXI-A/N(Neonate)	±4%		
D-YS (Infant to Adult)	±3%		
D-YS (Neonate)	±4%		
D-YS with D-YSE Ear Clip	±3.5%		
MAX-FAST	±2%		
Pulse Rate			
Measuring Range	20 to 300 bpm		
Resolution	1 bpm		
Accuracy	3 bpm (20 to 250 bpm)		
Sensor Wave length	approximately 660 and 900nm		
Emitted light energy	<15 mW		
NOTE: Information about the wave length range car	n be especially useful to clinicians (for instance, when photodynamic therapy is		
performed).			
Temperature			
Channels	2		
Measuring and alarm range	0 to 50°C (32 to 122°F)		
Sensor type	YSI 10 k		
Resolution	±0.1°C (0.1°F)		
Accuracy (without sensor)	±0.1°C		
Refresh time	Every 1 to 2 s		
IBP			
IDP			
Accuracy	±2% or ±1 mmHg, whichever is greater		

Sancitivity	5 (μV/V/mmHg)	
Sensitivity Impedance range		
Filter	300 Ω to 3,000 Ω DC~ 12.5 Hz; DC~ 40 Hz	
Zero	Range: ±200 mmHg	
Measuring and alarm range Art	0 to 200 mmHa	
PA	0 to 300 mmHg 6 to 120 mmHg	
CVP/RAP/LAP/ICP	-10 to 40 mmHg	
P1/P2	-50 to 300 mmHg	
CO ₂		
Method	Infra-red absorption technique	
Unit	mmHg, %, kPa	
-		
Measuring range etCO ₂	0 to 150 mmHg	
FiCO ₂	3 to 50 mmHg	
AwrR	0 to 150 rpm (Mainstream)	
Resolution		
etCO ₂	1 mmHg	
FiCO ₂	 1 mmHg	
Awrr	1 rpm	
etCO ₂ accuracy	±2 mmHg, 0 to 40 mmHg	
	±5% of reading, 41 to 70 mmHg	
	±8% of reading, 71 to 100 mmHg	
	±10% of reading, 101 to 150 mmHg	
AwRR accuracy	±1 rpm	
Apnea alarm delay	10, 15, 20, 25, 30, 35, 40 s, default value is 20 s	
Calculation method	BTPS (Body Temperature Pressure Saturated)	
Stability		
Short term drift	Drift over 4 hours < 0.8 mmHg	
Long term drift	Accuracy specification will be maintained over 120 hours	
O ₂ compensation		
Range	0 – 100%	
Resolution	1%	
Default	16%	
C.O.		
Intended patient	Adult	
Measurement method	Thermodilution Technique	
Measuring range		
C.O.	0.1 L/min ~ 20 L/min	
ТВ	23°C ~ 43°C	
П	-1°C ~ 27°C	
Resolution		
C.O.	0.1 L/min	
TB, TI	±0.1°C	

C.O.	±5% or 0.2 L/min, whichever is greater	
ТВ	0.1°C (without sensor)	
П	0.1°C (without sensor)	
Trend review		
Short	1 hr, 1 s. resolution	
Long	120 hrs, 1 min. resolution	
Review	1200 sets NIBP measurement data	
NOTE: Regarding the AG specifications, refer to the	Supplement Scio Four modules.	
Recorder		
Record width	48 mm (1.9 inch)	
Paper speed	12.5, 25, 50 mm/s	
Trace	Up to 3 waveforms	
Recording types	Continuous real-time recording	
	 8 seconds real-time recording 	
	 Time recording 	
	 Alarm recording 	
	 Trend graph recording 	
	 Trend table recording 	
	 NIBP review recording 	
	 Arrhythmia review recording 	
	 Alarm review recording 	
	 C.O. measurement recording 	
	 Frozen waveform recording 	
	 Drug calculation titration recording 	
	Hemodynamic Calculation result recording	
Display specifications		
Display screen	380 mm (15 inch) color TFT	
Resolution	1024 x 768	
Maximum number of waveforms	11	
Indicator LEDs	1 power, 2 alarm, 1 charge	
Physical specification		
Size (H x W x D)	316 x 408 x 157 mm (12.4 x 16.1 x 6.2 inch)	
Weight	7.0 kg (15.4 lbs)	
Electrical specification		
Power supply	100 V – 240 V~, 50 Hz/60 Hz	
Pmax	110 VA	
FUSE	T 3.15 AH, 250 V	
Classification		
Anti-electroshock type/protection class	Class I equipment and internal powered equipment	
EMC type	Class A	
Anti-electroshock degree	CF: ECG (RESP), TEMP, IBP, CO	
-	BF: SpO ₂ , NIBP, CO ₂ , AG	
Liquid ingress protection	IPX1	
Disinfection/sterilization method	Refer to Instructions for Use: Care and cleaning	
Mode of operation	Continuous running equipment	
<u>'</u>	<u> </u>	
Power supply	100 V to 240 V~, 50 Hz/60 Hz	

FUSE 7	T 2 15	ΔH	250	VE
FUSE	I (3. I()	AH.	200	vr

1		
5,000 mAh		
240 min (At 25±2°C, with (a) new fully charged battery/batteries,		
continuous SpO2 measurement and NIBP automatic measurement		
mode at interval of 15 minutes, Dräger ECG/TEMP module		
connected, recording at interval of 10 minutes, brightness set to "1")		
≤ 360 min, 100% charge (Monitor is on or in standby mode)		
≤ 324 min, 90% charge (Monitor is on or in standby mode)		

ENVIRONMENTAL REQUIREMENTS

The monitor may not meet the performance specifications given here if stored or used outside the specified temperature and humidity ranges. When the monitor and related products have differing environmental specifications, the effective range for the combined products is that range which is common to the specifications for all products.

Temperature range	
Operating	0 to 40°C (32 to 104°F)
Transport and storage	-20 to 55°C (-4 to 131°F)
Relative humidity	
Operating	15%RH ~ 95%RH (non-condensing)
Transport and storage	15%RH ~ 95%RH (non-condensing)
Atmospheric pressure	
Operating	86 kPa ~ 106 kPa
Transport and storage	70 kPa ~ 106 kPa

Standards

IEC 60601-1: 2005+A1 :2012; IEC 60601-1-2: 2007; EN 60601-1: 2006+A1 :2013; EN 60601-1-2: 2007; IEC 60601-2-49: 2011
The Vista 120 monitors comply with the Medical Device Directive (MDD) 93/42/EEC.

VISTA 120	MS30214	MS31997	MS31996	MS31998
3/5-lead wire ECG	X	X	X	X
Draeger SpO ₂	X		X	
Nellcor SpO ₂		X		X
Non-Invasive Blood	X	X	X	X
Pressure				
Respiration	X	X	X	X
Dual Temperature	X	X	X	X
Built-in Recorder	X	X	X	X
Networking	X	X	X	X
Gas Mesurement	X	X	X	X
Module Compatibility				
2 Invasive Blood			X	X
Pressures				
Cardiac Output			X	X
etCO ₂			X	X
1// 100 1				

Vista 120 monitors are available in select markets only.

For availability in your area, please contact the appropriate Dräger office from those listed below.

Notes

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Notes

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