Vista 120 SC
Vital Signs Monitor

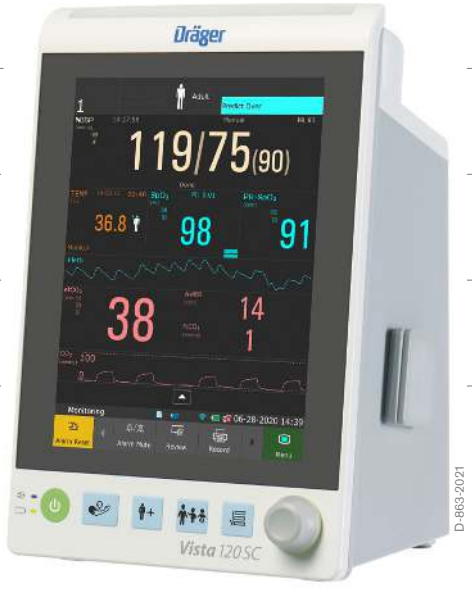
With increasing demands on clinicians, it's essential to have an easy-to-use vital signs monitor that can enhance your clinical processes and help you make informed decisions that can positively impact patient care. Providing both spot check and continuous bedside monitoring capabilities, it's the ideal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

8" touch screen

Early warning score

Wireless connectivity

Configurable with 5 different models



D-863.2021

Spot check, ward round, and continuous monitoring modes

Barcode patient admission

EMR/HIS connection via HL7
includes patient list download from HIS

Compatible with existing Vista 120 NIBP, $etCO_2$ and SpO_2 accessories

Dräger. Technology for Life®

Benefits

Transform your clinical workflow

With its plug-and-play measurement capabilities, the Vista 120 SC can enhance your clinical workflow, giving you more time to focus on your patients. Data entry, saving and upload functions are all done via LAN/wireless networks to help reduce the chance of documentation errors. It's light, portable and ready to go with an integrated handle for easy transport.

Spot check and continuous monitoring modes in one device

The Vista 120 SC offers both spot check and continuous bedside monitoring capabilities. Depending on the clinical situation, you can switch between modes easily and quickly. If you need to measure basic vital signs for multiple patients in the emergency department, step-down unit, or general ward or need a vital signs monitor to stay with one dedicated patient, the Vista 120 SC is the ideal monitor for your clinical needs.

Reduce the clinical complexities in your workflow

The unique Ward Round Mode on the Vista 120 SC allows you to wirelessly import patient lists from your hospital information system with simplicity. You can quickly and efficiently collect and transmit vital signs data during your patient assessments without repeated barcode admissions or manual entry of data – helping you reduce the clinical complexities in your workflow.

Identify the early warning signs

The Vista 120 SC is equipped with an early warning system that combines multiple vital signs parameters into a calculated score to indicate a patient's degree of deterioration. This scoring mechanism enables clinicians to identify the warning signs of a life-threatening event, allowing them to intervene quickly before it occurs.

Designed to meet your needs and budget

The Vista 120 SC is available in 5 different models, with models B, C, D and E offering two different temperature technologies in one monitor. Our flexible offerings help support your various clinical needs and stay within your budget.

Details

D-20023-2020

Patient Data Upload

D-20024-2020

Working Modes

D-20025-2020

Ward Round Mode

D-20026-2020

Early Warning Score (EWS)

D-1951-2021

Config.1

D-1952-2021

Config.2

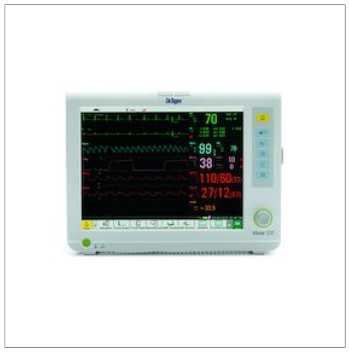
Related Products

D-30739-2017

Infinity® Acute Care System

Transform your clinical workflow with Infinity® Acute Care System. Its multiparameter monitor integrates with its networked medical-grade workstation, giving you real-time vital signs, access to clinical hospital systems and data management applications for a comprehensive range of patient information and powerful analysis tools at the point-of-care.

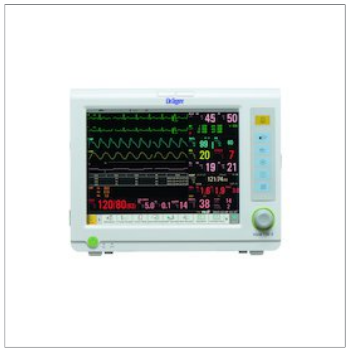
Related Products



D-6829-2014

Vista 120

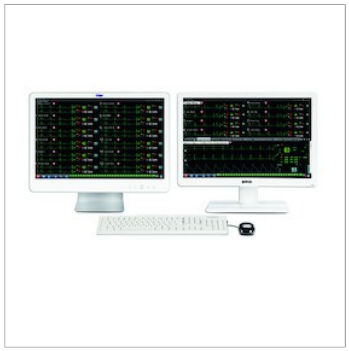
Hospitals around the world share a common challenge – to provide the best possible care in locations with growing populations, stricter financial regulations and caregivers that are increasingly overloaded. The Vista 120 was engineered to meet your clinical needs and stay within your budget, allowing you to deliver efficient and high-quality patient care.



D-13374-2016

Vista 120 S

Dräger understands the growing need for a patient monitor with built-in connectivity that provides essential monitoring at a good value. The Vista 120 S supports adult, a paediatric and neonatal patients and can be used on its own or with a Dräger therapy device as a fully integrated workstation.



D-45196-2021

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, and Vista 120 SC monitors. This central surveillance streamlines workflows for clinicians while enhancing patient care.

Technical Data

Classification	
Anti-electroshock type	Class I equipment and internal powered equipment
Class I equipment and internal powered equipment	SpO_2, NIBP, TEMP, CO_2: BF
Ingress protection	IPX2 With TAT-5000S-RS232 thermometer or F3000 TEMP module: Ordinary equipment (sealed equipment without liquid proof)
Disinfection/sterilisation method	Refer to IFU chapter "Reprocessing" for details
Working system	Continuous operation equipment
Compliant with standards	IEC 60601-1: 2005+A1: 2012; IEC 60601-1-2: 2014; EN 60601-1: 2006+A1: 2013; EN 60601-1-6: 2010+A1: 2015; EN 60601-1-8: 2007+A1: 2013; EN 60601-1-2: 2015; IEC 60601-2-49: 2018

Physical Specifications	
Size	155 mm (W) x 250 mm (H) x 165 mm (D)
Weight	< 3 kg (standard configuration, without accessories and battery)

Function Configuration	**Model**	**Standard Configuration**
Vista 120 SC	A	Dräger SpO_2, Dräger NIBP, recorder, Wi-Fi, touch screen
	B	Dräger SpO_2, Dräger NIBP, recorder, external temperature module, Wi-Fi, e-link, touch screen
	C	Nellcor SpO_2, SunTech NIBP, external temperature module Wi-Fi, e-link, touch screen
	D	Masimo SpO_2, SunTech NIBP, external temperature module, recorder, Wi-Fi, e-link, touch screen
	E	Masimo SpO_2, SunTech NIBP, Microstream etCO_2, external temperature module, Wi-Fi, e-link, touch screen

Environment Specification	
If stored or used outside the specified temperature and humidity ranges, the monitor cannot meet the performance specifications given here. When the monitor and related products have differing environmental specifications, the effective range for the combined products is that range common to the specifications for all products.	
Temperature	
Working	+0°C – +40°C For F3000 temp module, +10°C – +40°C For Exergen temp module, +16°C – +40°C
Trasport and storage	-20°C – +55°C
Humidity	
Working	15% RH – 95% RH (non-condensing)
Transport and storage	15% RH – 95% RH (non-condensing)
Altitude	
Working	70 kPa – 106 kPa
Transport and storage	50 kPa – 106 kPa
Power supply	100 V-240 V~, 50 Hz/60 Hz
	Current: 0.7 A – 0.35 A

Technical Data

Display	
Display	Messages
Display screen: 8-inch color TFT, supporting touch screen Resolution: 800×600	One power on/off LED, green One battery charge LED, yellow/green One AC power LED, green One alarm LED, red/yellow/blue

Battery Specification	
Number	1
Battery type	Lithium battery
Capacity	≥5,000 mAh
Charge/discharge cycle	300 times
Condition	Standard configuration, at 20℃ – 30℃, with (a) new fully charged battery/batteries, continuous SpO_2 measurement and NIBP automatic measurement mode at interval of 15 minutes, recording at interval of 15 minutes, screen brightness set to “1”.
Operating time	≥8 hrs
Charging time	≤390 min, at 20℃ – 30℃; the monitor is off

Recorder	
Record width	49 mm – 50 mm
Paper speed	12.5 mm/s, 25 mm/s, 50 mm/s
Trace	1
Recording types	Continual real-time recording 8 seconds real-time recording Recording manually Physiological alarm recording Trend graph recording Trend table recording NIBP review recording Alarm review recording NIBP auto triggered recording

Data Management	
Data review	
Trend graph/trend table review	3 hrs, at 1 second resolution 120 hrs, at 1 min. resolution
Alarm/monitoring event data	Up to 200 sets
NIBP measurement review	1,200 sets
Refer to IFU chapter "Monitoring Data Review" for more information about data review.	
Data storage	
Patient information	MRN, name, date of birth, date of admission, gender, type, height, weight, blood type, doctor, bed No., department
Trend graph and trend table	240 hours
NIBP measurement review	1,200 sets
Alarm review	200 sets

1 GB extension space for data storage: ≥400 hrs

With all parameters on, storage interval of 1 s, one SpO_2 wave, and one alarm event occurring for each 10 s.

In ward round mode, storage data maximally contains the following information:

Ward round record	MRN, name, type, bed No., ward round record and original record	Up to 80,000 sets
SpO_2	Measurement time, SpO_2 value, PR value	Up to 20 sets for a single patient

Technical Data

NIBP	SYS, DIA, MAP, PR, measurement time	Up to 20 sets for a single patient
TEMP	TEMP value, measurement time	Up to 20 sets for a single patient
CO_2	$etCO_2$, $FiCO_2$, AwRR	Up to 20 sets for a single patient

1 GB space for data storage: ≥100 thousand sets of ward round records. Up to 800 thousand sets of ward round records are supported (one ward round record has 20 original records).

In spot-checking mode, storage data maximally contains the following information: 16 million sets of spot-checking data for multiple patients.

Refer to IFU chapter "Storing Data in the Storage Device" for more information about storing data in the storage medium.

Dräger NIBP Module

Complies with EN IEC 80601-2-30: 2019		
Technique	Oscillometry	
Mode	Manual, auto, continuous, average	
Measuring interval in AUTO mode (unit: minutes)	1/2/3/4/5/10/15/30/60/90/120/180/240/360/480	
Continuous	5 min, interval is 5 s	
Measuring type	SYS, DIA, MAP, PR	
Pressure unit	kPa, mmHg, cmH_2O	
Average measurement	Interval (unit: minutes)	1/2/3/4/5
	Times	3/5

Measuring Range	
Adult mode	SYS: 40 mmHg – 270 mmHg DIA: 10 mmHg – 215 mmHg MAP: 20 mmHg – 235 mmHg
Paediatric mode	SYS: 40 mmHg – 230 mmHg DIA: 10 mmHg – 180 mmHg MAP: 20 mmHg – 195 mmHg
Neonatal mode	SYS: 40 mmHg – 135 mmHg DIA: 10 mmHg – 100 mmHg MAP: 20 mmHg – 110 mmHg
Alarm type	SYS, DIA, MAP
Cuff pressure measuring	Range 0 mmHg to 300 mmHg
Pressure resolution	1 mmHg
Maximum mean error	±5 mmHg
Maximum standard deviation	8 mmHg
Maximum measuring period	
Adult/paediatric	120 s
Neonate	90 s
Typical measuring period	20 s to 35 s (depend on HR/motion disturbance)
Dual independent channel overpressure protection	
Adult	(297±3) mmHg
Paediatric	(245±3) mmHg
Neonatal	(147±3) mmHg
Pre-inflation pressure	
Adult mode	Default: 160 mmHg Range: 80/100/120/140/150/160/180/200/220/240 mmHg
Paediatric mode	Default: 140 mmHg Range: 80/100/120/140/150/160/180/200 mmHg
Neonatal mode	Default: 100 mmHg Range: 60/70/80/100/120 mmHg

Technical Data

SunTech NIBP Module

Method	Oscillometric	
Mode	Manual, auto, continuous, average	
Measuring interval in AUTO mode (unit: minute)	1/2/3/4/5/10/15/30/60/90/120/180/240/360/480	
Continuous	5 min, interval is 5 s	
Average measurement	Interval (unit: minutes)	1/2/3/4/5
	Times	3/5
Measuring type	SYS, DIA, MAP, PR	
Pressure unit	kPa, mmHg, cmH_2O	
Measuring range		
Adult mode	SYS: 40 mmHg – 260 mmHg DIA: 20 mmHg – 200 mmHg MAP: 26 mmHg – 220 mmHg	
Paediatric mode	SYS: 40 mmHg – 230 mmHg DIA: 20 mmHg – 160 mmHg MAP: 26 mmHg – 183 mmHg	
Neonatal mode	SYS: 40 mmHg – 130 mmHg DIA: 20 mmHg – 100 mmHg MAP: 26 mmHg – 110 mmHg	
Alarm type	SYS, DIA, MAP	
Pressure resolution	1 mmHg	
Maximum mean error	±5 mmHg	
Maximum standard deviation	8 mmHg	
Maximum measuring period		
Adult	130 s	
Paediatric	90 s	
Neonate	75 s	
Overpressure protection		
Adult/paediatric	<300 mmHg	
Neonate	<150 mmHg	
Pre-inflation pressure		
Adult mode	120 mmHg, 140 mmHg, 150 mmHg, 160 mmHg, 180 mmHg, 200 mmHg, 220 mmHg, 240 mmHg, 260 mmHg, 280 mmHg Default: 160 mmHg	
Paediatric mode	80 mmHg, 100 mmHg, 120 mmHg, 140 mmHg, 150 mmHg, 160 mmHg, 180 mmHg, 200 mmHg, 220 mmHg, 250 mmHg Default: 120 mmHg	
Neonatal mode	60 mmHg, 70 mmHg, 80 mmHg, 90 mmHg, 100 mmHg, 120 mmHg, 140 mmHg Default: 90 mmHg	

SpO_2

Complies with EN/ISO 80601-2-61: 2019	

Dräger module

Measuring range	0% – 100%
Resolution	1%
Data update period	1 s
Accuracy	
Adult/paediatric	±2% (70% – 100% SpO_2) Undefined (0% – 69% SpO_2)

Technical Data

Neonate		±3% (70% – 100% SpO_2)	
		Undefined (0% – 69% SpO_2)	
SpO_2 storage interval		In ward round or spot-checking mode 30 s (default), 1 min, 2 mins, 5 mins	
Sensor			
Red light		(660±3) nm	
Infrared light		(905±10) nm	
Emitted light energy		< 15 mW	
PI			
Measuring range		0–10, invalid PI value is 0	
Resolution		1	
Nellcor module			
Measuring range		0% – 100%	
Resolution		1%	
Data update period		1 s	
Accuracy	DS-100A, OXI-A/N (adult) D-YS (adult and paediatric) OXI-P/I (paediatric)	± 3% (70% – 100% SpO_2)	
	MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I, MAX-FAST (adult and paediatric)	±2% (70% – 100% SpO_2)	
	MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I, MAX-FAST (adult and paediatric)	±3% (60% – 80% SpO_2)	
	If sensor is used for neonate as recommended, the accuracy will be larger than adult by ±1.		
SpO_2 storage interval		In ward round or spot-checking mode 30 s (default), 1 min, 2 mins, 5 mins	
Sensor		Wavelength: approximately 660 nm and 900 nm	
		Emitted light engery: <15 mW	

Masimo module			
Measuring range	1% – 100%		
Resolution	1%		
Accuracy	Adult/paediatric	During no motion condition	±2% (70% – 100% SpO_2) Unspecified (0% – 69% SpO_2)
		During motion condition	±3% (70% – 100% SpO_2) Unspecified (0% – 69% SpO_2)
	Neonate	During no motion condition	±3% (70% – 100% SpO_2) Unspecified (0% – 69% SpO_2)
		During motion condition	±3% (70% – 100% SpO_2) Unspecified (0% – 69% SpO_2)
Low perfusion performance	> 0.02% pulse amplitude and % transmission > 5%	Saturation (% SpO_2): ±2 Pulse rate: ±3	
	Interfering substances	Carboxyhemoglobin may erroneously increase readings. The level of increase is approximately equal to the amount of carboxyhemoglobin present. Dyes, or any substance containing dyes, that change usual arterial pigmentation may cause erroneous readings.	
	Averaging time(s)	2-4, 4-6, 8, 10, 12, 14, 16	
	Sensitivity	Normal, APOD, Max	
	PI measurement range	0.02 – 20%	

Technical Data

Note: The information about wavelength range can be especially useful to clinicians (for instance, when photodynamic therapy is performed).

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	0 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
	SunTech	30 bpm to 220 bpm	±3 bpm or ±2%, whichever is greater	1 bpm

TEMP

Complies with EN/ISO 80601-2-56:2017+A1: 2018

TAT-5000S-RS232 thermometer:

Measuring range	16°C – 43°C
Arterial heat balance range for body temperature[1]	34.5°C – 43°C
Clinical accuracy	±0.1°C per ASTM E1112
Clinical performance (versus oral thermometry), per ISO 80601-2-56	Clinical bias: 0.52°C Limits of agreement: 1.24 Clinical repeatability: 0.13
Clinical performance (versus rectal thermometry), per ISO 80601-2-56	Clinical bias: 0.02 – 0.07°C Limits of agreement: 0.87 – 1.15 Clinical repeatability: 0.13
Operating environment	16°C – 40°C
Storage environment	-20°C – 50°C
Resolution	0.1°C
Response time	~ 0.04 seconds
Time displayed on scanner	30 seconds
Battery type and life	9-volt alkaline battery, providing 15,000 readings[2]

NOTE:

[1] Automatically applied when temperature is within normal body temperature range, otherwise reads surface temperature.

[2] Approximate number of readings when scanning for 5 seconds and reading the temperature display for 3 seconds before turning off the thermometer.

WARNING:

The monitor may not meet performance specifications if stored or used outside temperature and humidity ranges. When moving the monitor from a storage location, wait at least one hour or more before use to allow the monitor to adjust to room temperature.

F3000 Module

Measuring range	30°C – 43°C
Prediction measurement range	35°C – 43°C
Low temp. mode prediction measurement range	33°C – 43°C
Working temperature	10°C – 40°C
Transport and storage	-20°C – 55°C
Sensor type	Oral /axillary /rectal
Adjustable range of alarm limits	35.5°C – 42°C

Technical Data

Resolution	0.1°C
Accuracy	Monitoring mode and predictive mode: ±0.1°C Quick predictive mode: ±0.3°C
Typical measurement time (after insertion into measurement site)	Oral (quick predictive mode): (3 – 5) s (non-fever temps); (8 – 10) s (fever temps) Oral (predictive mode): (6 – 10) s Axillary: (8 – 12) s Rectal: (10 – 14) s Monitoring mode (all sites): (60 – 120) s
Measuring mode	Direct mode/adjusted mode
Transient response time	≤30 s monitoring mode
Clinical bias	(-0.2 – -0.4)°C
Limits of agreement	0.49
Stability	0.14°C
NOTE:	
The direct mode refers to monitoring mode, while adjusted mode refers to predictive mode and quick predictive mode.	

CO_2

Complies with EN ISO 80601-2-55: 2018	
Intended patient	Adult, paediatric, neonatal
Measure parameters	$etCO_2$, $FiCO_2$, AwRR
Unit	mmHg, %, kPa
Measuring range	
$etCO_2$	0 mmHg to 99 mmHg
$FiCO_2$	1 mmHg to 99 mmHg
AwRR	0 rpm to 150 rpm
Resolution	
$etCO_2$	1 mmHg
$FiCO_2$	1 mmHg
AwRR	1 rpm
Accuracy	
CO_2 partial pressure accuracy	0 to 38 mmHg: ±2 mmHg 39 to 99 mmHg: ±[5% of expected reading + 0.08 × (expected reading in mmHg – 39 mmHg)]
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: ±(2 mmHg + 4% of expected reading in mmHg) – 39 to 99 mmHg: ± [9% of expected reading in mmHg + 0.08 × (expected reading in mmHg - 39 mmHg)] – 0 to 38 mmHg: ±(2 mmHg + 4% of expected reading in mmHg) in the presence of up to 80% helium with up to 15% oxygen – 39 to 99 mmHg: ±[9% of expected reading in mmHg + 0.08 × (expected reading in mmHg – 39 mmHg)] in the presence of up to 80% helium with up to 15% oxygen
AwRR accuracy	0 to 70 rpm: ±1 rpm 71 to 120 rpm: ±2 rpm 121 to 150 rpm: ±3 rpm
Waveform sampling	20 samples/second
Flow rate	50 mL per minute (tolerance -7.5, +15), flow measured by volume

Technical Data

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 sec After the system warm up and during steady state Microstream MCable use: the maximum delay time between patient breath and its report on the CO_2 waveform is 2.9 sec
Warm-up period	Includes power-up time (10 seconds maximum) and initialisation time (180 seconds) Total warm-up time 1 minute and 30 seconds maximum
Compression	BTPS is the standard correction used by Microstream capnography during all measurement procedures for body, temperature, pressure, and saturation

Wi-Fi Technical Specifications

IEEE	802.11 a/b/g/n
Frequency band	2.4 GHz & 5 GHz ISM band
Modulation	OFDM with BPSK, QPSK, 16-QAM, and 64-QAM 802.11b with CCK and DSSS
Typical transmit power (±2 dBm)	2.4 GHz 17 dBm for 802.11b DSSS 17 dBm for 802.11b CCK 17 dBm for 802.11g OFDM 16 dBm for 802.11n OFDM 5 GHz (not available in USA and in Canada) 10 dBm for 802.11a OFDM 9 dBm for 802.11n OFDM
I/U ratio (co-channel)	≤ 20 dB
I/U ratio (adjacent channel)	≤ 1 dB
Throughput	≥ 0.01 Mbps
Latency	≤ 1 s
Jitter	≤ 1 s
PER	≤ 10%

Wi-Fi Performance Specifications

System capacity and resistance to wireless interference	When the following conditions are present: – Quantity of the monitors supported by a single AP: ≤ 8 – Each monitor can communicate with Vista 120 CMS – Each monitor supports bed view function, which allows users to view its information from another bed or view other bed's information from its screen – The AP signal strength of the monitor should be stronger than -65 dBm – When the distance between the interfering devices and the monitor is more than 30 cm, and there is a co-channel interference Wi-Fi network (at least -85 dBm weaker than the monitor's network) and an adjacent-channel Wi-Fi network (at least -50 dBm weaker than the monitor's network) at the same time. Note: excluding the Wi-Fi devices, the interfering devices include but are not limited to: – 2.4G or 5G wireless devices (excluding Wi-Fi devices)

Technical Data

	– Cellular mobile communication networks – Microwave ovens – Interphones – Mobile phones – ESU equipment
Wi-Fi network stability	The wireless network function of all monitors works normally and meets the following requirements: – Total delay time for data transmission from the monitors to Vista 120 CMS: ≤ 2 s – Total delay time of data transmission from one monitor to other monitors: ≤ 2 s – Effective time of alarm reset configured on another monitor: ≤ 2 s – Effective time for monitor-related settings configured on the Vista 120 CMS: ≤ 2 s – No communication loss between all the monitors When the following conditions are present: – Quantity of the monitors supported by a single AP: ≤ 8 – Each monitor can communicate with Vista 120 CMS – Each monitor supports bed view function, which allows users to view its information from another bed or view other bed's information from its screen The AP signal strength of the monitor should be stronger than -65 dBm The following requirements must be met: – Within 24 hours, the time percentage of failing to transmit data from any monitor to the Vista 120 CMS does not exceed 0.1%. When the connected 8 monitors roam for 30 times, the time percentage of failing to transmit data from any monitor to the Vista 120 CMS does not exceed 0.1%
Distinct vision distance	The distinct vision distance between the monitor and the AP: ≥ 50 meters

e-link	
Transmit frequency	2,402 MHz – 2,480 MHz
Frequency band	2,402 MHz – 2,480 MHz
Modulation	FHSS, GFSK, DPSK, DQPSK
Transmit power	≥ 0 dBm
I/U ratio	≤ 1 dB
Throughput	≥ 0.01 Mbs
Latency (one-way delay)	≤ 1 s
Jitter (latency variation)	≤ 1 s
PER	≤ 10%

Interfaces

Nurse Call	
Drive mode	Voltage output
Power supply	11.4 V – 12.6 V
Interface signal	12 V power supply and PWM waveform

Technical Data

Interface type	Standard RJ-45 network interface

USB Interfaces

Number of USB interfaces	Standard: 2
Drive mode	HOST interface, USB 1.0/2.0 protocol
Power supply	5 VDC ±5%, 500 mA max.
Interface type	USB A-type port

Wired Network Interface

Specification	100-base TX (IEEE802.3)
Interface type	Standard RJ-45 network interface

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