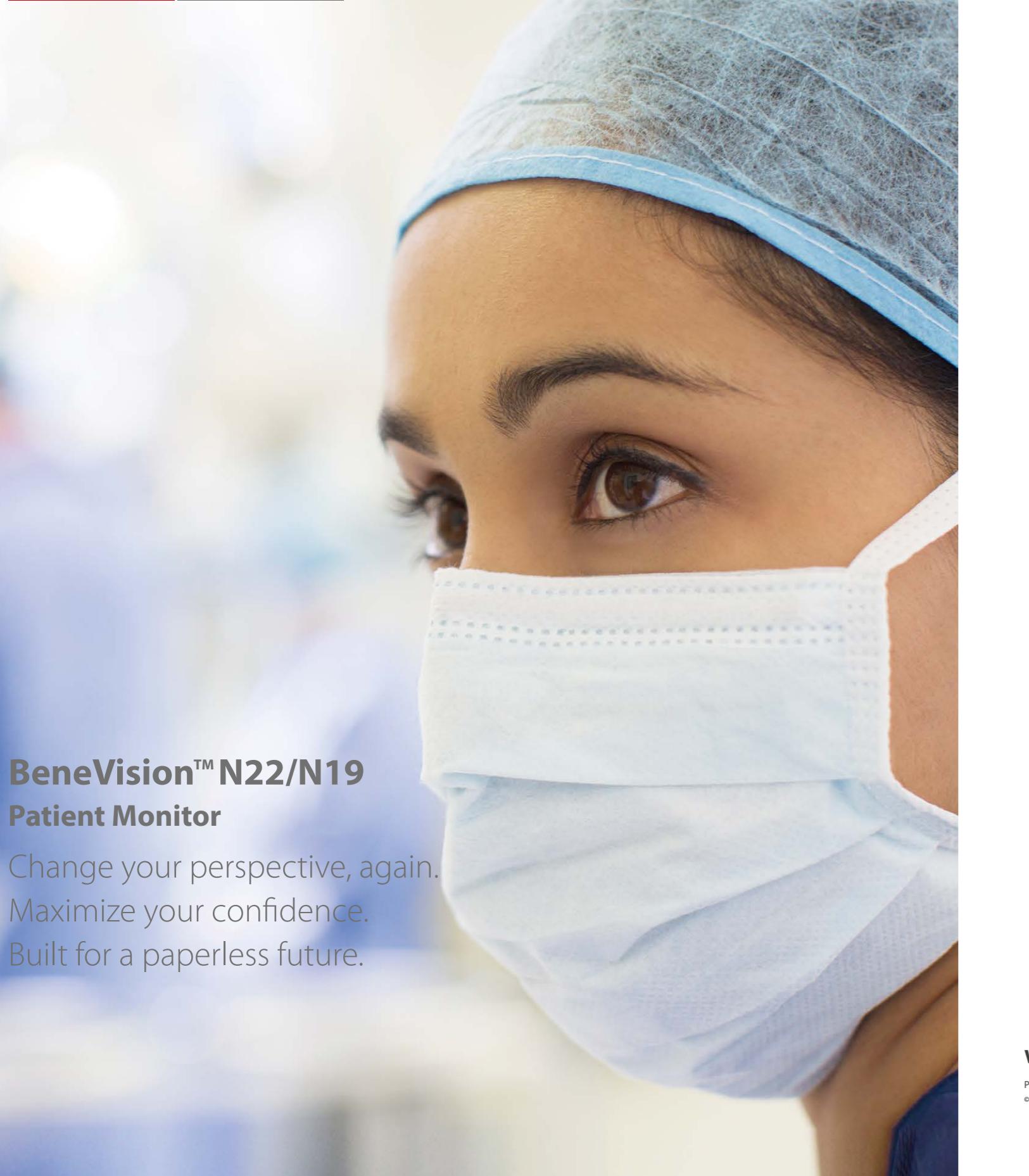


BeneVision™

See more With ease



BeneVision™ N22/N19

Patient Monitor

Change your perspective, again.
Maximize your confidence.
Built for a paperless future.

www.mindray.com

P/N: ENG-BeneVision N22/N19-210285x14Px20190129
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BeneVision N22/N19

Patient monitor

Always in sight, always in mind



mindray

healthcare within reach

mindray

BeneVision. Change your perspective, again.

BeneVision N22/N19

At Mindray, we believe the best way to predict the future is to create it today. We're thinking how to help you save your time in order to treat more patients effectively. We also focus on clinical safety, and efficiency. Now for the first time in the world, the BeneVision patient monitor ROTATES between landscape and portrait. You have both higher and wider clinical views when patient care demands them.

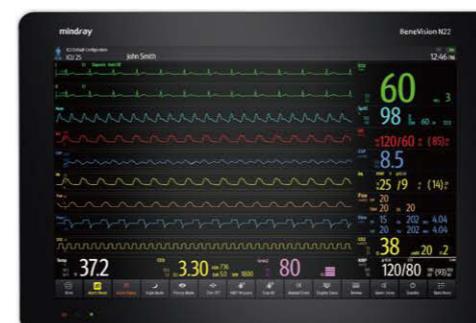


Design.
Excellence for visionaries.



Original technology innovations have been combined with thoughtful considerations to improve patient monitoring experience.

During the design process, we strove to make the details "and" instead of "or", such as the ingenious portrait and landscape display, as well as the single-level menu user interface.



Modular design brings so many options.

- Parameter modularity allows you flexibility in patient care and makes the most of your equipment investment.
- iView module combines a powerful, embedded PC and the patient monitor in the same unit. The innovative design optimizes cooling without the need for a fan.
- Ultra-compact main unit and big screen can be used as a combined unit or separated to make use of the rotating screen feature.



Auto



Built-in



No fan



Seamless

Innovative. Maximize your confidence.

Everyday, Mindray delivers accurate, real-time, physiological measurement data from millions of patients worldwide, which clinicians have come to rely on when making decisions. BeneVision provides the worlds best monitoring technologies for you and promotes new ones continuously.

Cardiology

ΔST monitoring and ST segment templates.
Real-time QT/QTc measurement.
Glasgow 12-lead resting interpretation.



Hemodynamics and volumetric

Less-invasive PiCCO and ScvO₂ monitoring.
Non-invasive cardiac output with ICG module.



Airway gas and lung mechanics

One-slot CO₂+O₂ module
Volumetric CO₂ and metabolic measurements
AION Multi-Gas +SPIRIT respiratory mechanics



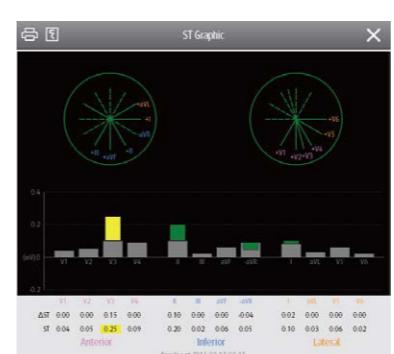
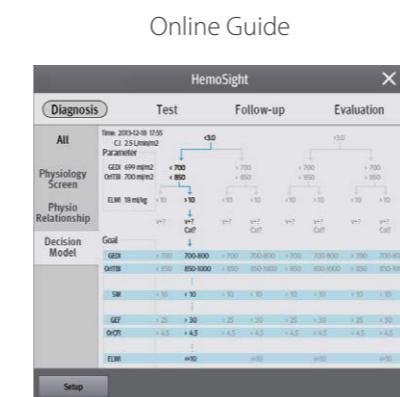
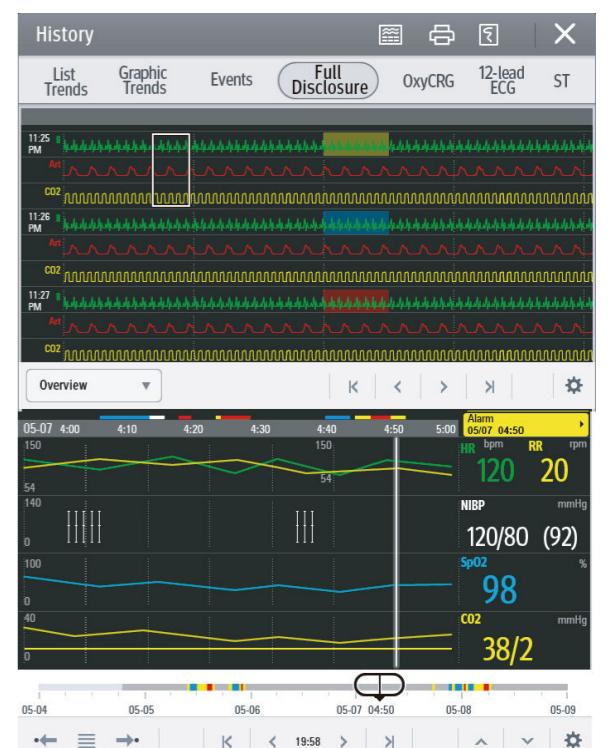
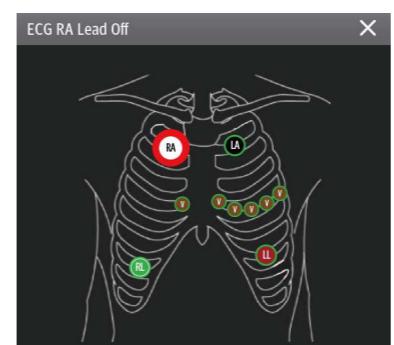
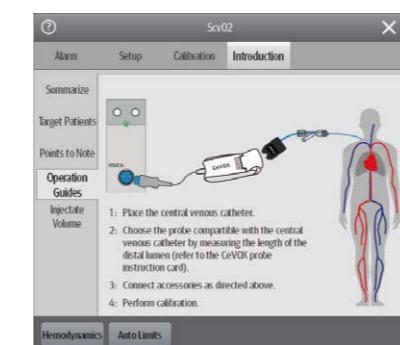
Tissue perfusion

INVOS rSO₂ provides a noninvasive and continuous reading of changes in regional oxygen saturation of blood in tissue microvascular circulation.



Neurology

EEG, and BIS/BISx4 monitoring.
Advanced NMT monitoring technology can detect movement in all directions accurately.



Comparison review
Events summary and details ease contextual evaluation.

HemoSight™
Help clinicians to make decisions through sets of hemodynamic assistance applications.

ST Graphic™
Quickly and accurately detect changes in ST values for analysis.



Mobility. Streamlined.

Since the introduction of the world's first portable cardiac monitor in 1964, Mindray has committed itself to being the pioneer in early patient mobilization for better recovery. BeneVision extends the typical mobile monitoring solution with more wireless roaming, data continuity, and streamlined workflow in every situation. Combined with its patient-worn telemetry monitor, which is also a cableless measurement module, BeneVision ensures a supreme level of mobility and offers more freedom to both patient and caregiver.



BeneVision N22/N19
wirelessly pairs with its TM80
and BP10 patient-worn
modules for cableless
measurement at the bedside
and beyond.



Ambulatory patients
monitored around the
bedside and beyond.

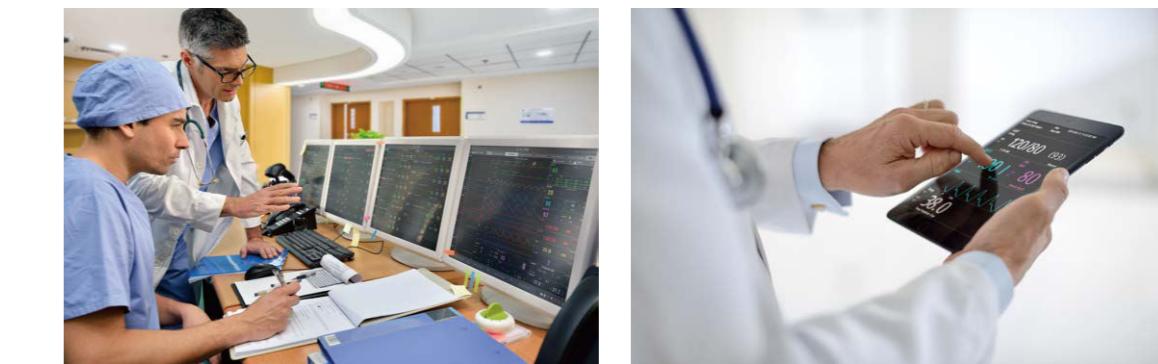


The Mindray classical
transport monitoring solution
with BeneVision N1 also works
seamlessly with BeneVision for
unmatched patient safety.

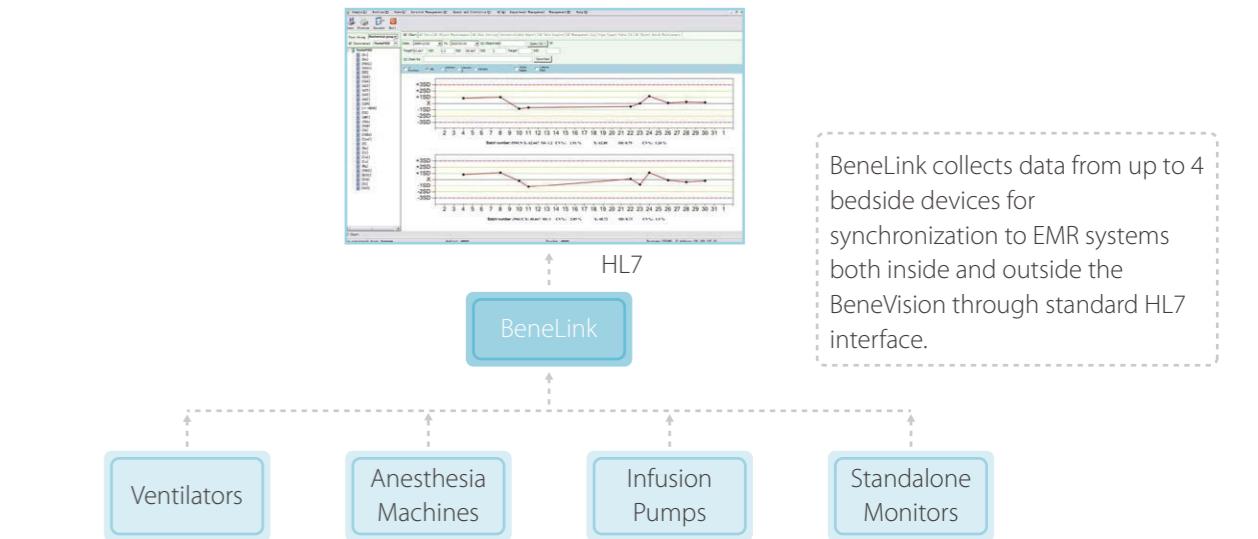


Mindray provides a flexible solution for monitoring your patient's status anywhere, anytime, even when you are away from the clinical environment...Based on layer 3 network structure, the Mindray patient monitoring system has a high network adaptability to integrate seamlessly with your hospital's current network.

With Mindray's central station and eGateway further connecting BeneVision with your clinical world, bedside device data and other clinical system data is shared to enhance your diagnosis and clinical decision making.



BeneVision
EMR(Electronic Medical Record)



iView can run your own clinical Apps (such as PACS, LIS, HIS/CIS, and EMR) on one intuitive view and connects with your hospital network infrastructure directly without any additional server or gateway.

With its 1680 x 1050 pixels 22-inch screen, BeneVision N22 has a perfect split layout in portrait display. No need to worry that the waveforms will be obstructed by the iView application window as you browse the patient's information.

BeneVision N22/N19

Patient monitor



Physical Specifications		QT Analysis	Adult/Pediatric/Neonate.
Weight	Including main unit with a battery, screen with handle & navigation knob, iView module, and Wi-Fi module.	Patient	QT, QTc, ΔQTc
N22:	11.5 kg (25.4 lbs)	Parameters	Bazett, Fridericia, Framingham, or Hodges
N19:	10.3 kg (22.7 lbs)	QTc Formula	
Size	Including main unit, screen with handle.	Range	
N22:	641 x 383 x 115 mm (portrait)	QT/QTc:	200 to 800 ms
	566 x 458 x 115 mm (landscape)	QT-HR:	Adult: 15 to 150 bpm
N19:	584 x 348 x 115 mm (portrait)	QT Accuracy	Pediatric/Neonate: 15 to 180 bpm
	509 x 423 x 115 mm (landscape)	Resolution	± 30 ms
Main unit:	268 x 268 x 68 mm	Respiration	QT 4 ms; QTc 1 ms
Display		Range	0 to 200 bpm
Type	Medical-grade color TFT LCD, capacitive touch screen, support multi-touch operation.	Resolution	1 rpm
	Rotatable screen (Landscape and portrait)	Apnea Alarm Time	10, 15, 20, 25, 30, 35, 40 sec
Resolution	1680 x 1050 pixels	Accuracy	
Screen		0 - 120 rpm:	± 1 rpm
N22:	22-inch, 178° viewing angle	121 - 200 rpm:	± 2 rpm
N19:	19-inch, 170° viewing angle	Lead	I, II, or auto (default: lead II)
Waveforms	Up to 16 waveforms (portrait)	Pulse Oximetry	Meet standards of ISO 80601-2-61.
	Up to 13 waveforms (landscape)	Module	Mindray, Masimo, Nellcor
ECG		Range	0 to 100 %
Meet standards of IEC 60601-2-27 and IEC 60601-2-25.		Resolution	1%
Lead Sets	Automatic 3/5/6/12-lead recognition	Accuracy	
3-lead:	I, II, III	Mindray/Nellcor:	± 2 % (70 to 100%, Adult/Pediatric)
5-lead:	I, II, III, aVR, aVL, aVF, V		± 3 % (70 to 100%, Neonate)
6-lead:	I, II, III, aVR, aVL, aVF, Va, Vb	Masimo:	Unspecified (0 to 69%)
12-lead:	I, II, III, aVR, aVL, aVF, V1 to V6		± 2 % (70 to 100%, Adult/Pediatric, non-motion)
Sweep Speed	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s		± 3 % (70 to 100%, Neonate, non-motion)
Gain Selection	x 0.125, x 0.25, x 0.5, x 1, x 2, x 4, auto		± 3 % (70 to 100%, motion)
Waveform format	Standard, Cabrera		Unspecified (0 to 69%)
Input Signal Range	± 8 mV (p-p)	Perfusion indicator (PI)	Yes, for Mindray/Masimo SpO ₂
Electrode Offset Potential Tolerance	± 500 mV	Pitch Tone	Yes
Bandwidth		Dual-SpO ₂	Yes, SpO ₂ , SpO ₂ b, ΔSpO ₂
Diagnostic Mode:	0.05 to 150 Hz	Pulse Rate Range	
Monitor Mode:	0.5 to 40 Hz	Mindray/Nellcor:	20 to 300 bpm
Surgical Mode:	1 to 20 Hz	Masimo:	25 to 240 bpm
ST Mode:	0.05 to 40 Hz	Pulse Rate Accuracy	
High Freq Cut-off (for 12-lead ECG analysis):	350 Hz, 150 Hz, 35 Hz, 20 Hz selectable	Mindray:	± 3 bpm (20 - 300 bpm)
CMRR		Nellcor:	± 3 bpm (20 - 250 bpm)
Diagnostic:	> 90 dB	Masimo:	± 3 bpm (non-motion)
Monitor, Surgical, ST mode:	> 105 dB (with notch filter on)		± 5 bpm (motion)
Pace detection		PR Refresh Rate	1 sec
Amplitude:	± 2 mV to ± 700 mV	Temperature	Meet standard of ISO 80601-2-56.
Width:	0.1 to 2 ms	Method	Thermal resistance
Rise time:	10 to 100 µs (without overshoot)	Channels	Up to 8 channels
Defibrillator Protection	Withstand 5000VAC (360J) defibrillation	Units of Measure	Selectable °C or °F
Defib. Recovery Time	≤ 5 seconds	Range	0 to 50 °C / 32 to 122 °F
ESU recovery time	≤ 10 s	Resolution	0.1 °C, 0.1°F
Provides Glasgow resting 12-lead ECG algorithm.		Accuracy	± 0.1 °C or ± 0.2 °F (without probe)
Provides Mindray Multi(4)-lead ECG monitoring analysis algorithm.		Refresh Rate	1 sec
(* These ECG specifications are from MPM Platinum module.)		Genius™ Tympanic Thermometer	
Heart Rate		Measurement Range	33 to 42 °C / 91.4 to 107.6 °F
Measurement Range		Calibrated Accuracy	± 0.1 °C (environment temperature 25 °C, target temperature 36.7 to 38.9 °C)
Adult:	15 to 300 bpm		± 0.2 °C (environment temperature 16 °C, target temperature 33 to 42 °C)
Pediatric/Neonate:	15 to 350 bpm	Resolution	0.1 °C, 0.1°F
Accuracy	± 1 bpm or ± 1%, whichever is greater.	Response Time	< 2 sec
Resolution	1 bpm	Non-Invasive Blood Pressure	
Arrhythmia Analysis		Meet standards of ISO 80601-2-30.	
Patient	Adult/Pediatric/Neonate.	Method	Oscillometry
Monitored Arrhythmias	Asystole, VFib/VTac, VTac, Vent. Brady, Extreme Tachy, Extreme Brady, Vrhythm, PVCs/min, Pauses/min, Couplet, Bigeminy, Trigeminy, R on T, Run PVCs, PVC, Tachy, Brady, Missed Beats, PNP, PNC, Multif. PVC, Nonsus. VTac, Pause, Irr. Rhythm, AFib, SVT, SVTs/min	Modes	Manual, Auto, STAT, Sequence
ST Segment Analysis		Units of Measure	mmHg, kPa (user-selectable)
Patient	Adult/Pediatric.	Resolution	1 mmHg
Range	- 2.0 to + 2.0 mV (RTI)	Systolic range	
Accuracy	± 0.02 mV or ± 10%, whichever is greater (- 0.8 to + 0.8 mV)	Adult:	25 to 290 mmHg
Resolution	0.01 mV	Pediatric:	25 to 240 mmHg
		Neonate:	25 to 140 mmHg
		Diastolic range	
		Adult:	10 to 250 mmHg
		Pediatric:	10 to 200 mmHg
		Neonate:	10 to 115 mmHg
		Mean range	

Adult:	15 to 260 mmHg	25.1 to 80 %:	±2 %		
Pediatric:	15 to 215 mmHg	80.1 to 100 %	±3 %		
Neonate:	15 to 125 mmHg				
Accuracy					
Max Mean Error: ± 5 mmHg					
Max Standard Deviation: 8 mmHg					
Cuff Deflation Technique Step bleed					
Initial Cuff Inflation					
Adult:	80 to 280 mmHg (default: 160 mmHg)	etCO ₂ :	1 mmHg		
Pediatric:	80 to 210 mmHg (default: 140 mmHg)	O ₂ (optional):	1 %		
Neonate:	60 to 140 mmHg (default: 90 mmHg)				
Over Pressure Protection					
Adult/Pediatric:	297 ± 3 mmHg	Adult/Pediatric:	120 ml/min (with or without O ₂ monitoring)		
Neonate:	147 ± 3 mmHg	Neonate:	70 ml/min or 90 ml/min, selectable		
Max Measurement time					
Adult/Pediatric:	180 sec		90 ml/min (with O ₂ monitoring)		
Neonate:	90 sec				
Assisting Venous Puncture					
Yes					
Pulse Rate Range					
30 to 300 bpm					
Pulse Rate Accuracy					
± 3 bpm or ± 3 %, whichever is greater					
IBP					
Meet standard of IEC 60601-2-34.					
Number	Up to 8 channels	etCO ₂ :	≤ 250 ms @ 70 ml/min (Neonate watertrap)		
Measurement Range	-50 to 360 mmHg		≤ 250 ms @ 90 ml/min (Neonate watertrap)		
Resolution	1 mmHg		≤ 300 ms @ 120 ml/min (Adult watertrap)		
Accuracy	± 1 mmHg or ± 2 %, whichever is greater (excluding sensor error)		≤ 800 ms @ 90 ml/min (Neonate watertrap)		
Sensitivity	5 µV/V/mmHg		≤ 750 ms @ 120 ml/min (Adult watertrap)		
Impedance Range	300 to 3000 Ω	Sampling Delay Time			
PPV Range	0 to 50 %	etCO ₂ :	≤ 5.0 sec @ 70 ml/min (Neonate watertrap)		
PAWP	Yes		≤ 4.5 sec @ 90 ml/min (Neonate watertrap)		
ICP measurement	Support	O ₂ (optional):	≤ 5.0 sec @ 120 ml/min (Adult watertrap)		
Support waveforms overlapping.			≤ 4.5 sec @ 90 ml/min (Neonate watertrap)		
Pulse Rate Range	25 to 350 bpm	awRR Range	≤ 5.0 sec @ 120 ml/min (Adult watertrap)		
Pulse Rate Accuracy	± 1 bpm or ± 1 %, whichever is greater	awRR Accuracy	0 to 150 rpm		
Cardiac Output					
Method	Thermodilution	0 to 60 rpm:	± 1 rpm		
Measurement Range	0.1 - 20 L/min	61 to 150 rpm:	± 2 rpm		
Resolution	0.1 L/min	Apnea Time			
Accuracy	± 0.1 L/min or ± 5%, whichever is greater	10, 15, 20, 25, 30, 35, 40 sec			
TB Range	23 to 43 °C / 73.4 to 109.4 °F	Provide VCO ₂ , VO ₂ , MVCO ₂ , MVO ₂ , EE, RQ parameters, when monitoring with RM module.			
TB, TI Accuracy	± 0.1 °C (without sensor)	Oridion Microstream CO₂			
TB, TI Resolution	0.1 °C	Measurement Range	0 to 99 mmHg		
pArt/pCVP Range	-50 to 300 mmHg	Resolution	1 mmHg		
pArt/pCVP Accuracy	± 1 mmHg or ± 2 %, whichever is greater	Accuracy			
ScvO₂		0 to 38 mmHg:	± 2 mmHg		
Range	0 to 99 %	39 to 99 mmHg:	± 5 % + 0.08 % of the reading – 38 mmHg		
Accuracy	± 3 % (50 to 80 %)	Sample Flow Rate	50 ^{-7.5} ₊₁₅ ml/min		
ICG		Start-up Time	30 sec (typical)		
Method	Thoracic electrical bioimpedance (TEB)	Response Time	2.9 s (typical)		
HR Range	40 to 200 bpm (ICG), accuracy ± 2 bpm	awRR Range	0 to 150 rpm		
C.O. Range	1.0 to 15 L/min	awRR Accuracy	± 1 rpm		
SV Range	5 to 250 ml	Capnostat Mainstream CO₂			
Provides Monitoring Parameters ACI, VI, PEP, LVET, TFI, TFC, HR, C.O., C.I., SV, SVI, SVR, SVRI, PVR, PVRI, LCW, LCWI, LWSW, LWSWI, STR, VEPT					
Continuous Cardiac Output Interface					
Measured Parameter	Consistent with CCO-related parameters outputted by Vigilance II®, Vigileo™, EV1000 or HemoSphere	Measurement Range	0 to 150 mmHg		
Artemia Sidestream CO₂			0 to 30 %		
Meet standard of ISO 80601-2-55.			N ₂ O:		
Measurement Range			0 to 100 %		
etCO ₂ :	0 to 150 mmHg	Des/Sev/Enf/Iso/Hal:			
O ₂ (optional):	0 to 100 %		0 to 30 %		
CO₂ Accuracy			O ₂ :		
0 to 40 mmHg:	± 2mmHg		0 to 100 %		
41 to 76 mmHg:	± 5% of reading	awRR:	2 to 100 rpm		
77 to 99 mmHg:	± 10% of reading	Resolution			
100 to 150 mmHg:	± (3 mmHg+8% of reading)	CO ₂ :	0.1 %		
O₂ Accuracy			N ₂ O:		
0 to 25 %:	±1 %		1 %		
Des/Sev/Enf/Iso/Hal:			Des/Sev/Enf/Iso/Hal:		
			0.1 %		
			O ₂ :		
			1 %		

awRR:	1 rpm		awRR:	Infant: $\pm 10\%$ or ± 6 ml, whichever is greater. ±1 rpm (4 to 99 rpm) ±2 rpm (100 to 120 rpm)	
Full Accuracy			Provide loops display.	Monitoring parameters include PEEP, Pmean, PIP, Pplat, PEF, PIF, MVe, MVi, TVe, TVi, RR, I:E, FEV1.0, Compl, RSBI, NIF, WOB, RAW.	
Gases	Range (%REL)	Accuracy (%ABS)	rSO₂	Patient	Adult/Pediatric/Neonate.
CO ₂ :	0 to 1 %	± 0.1 %	Method	INVOS, NIRS (Near Infrared Spectroscopy)	
	1 to 5 %	± 0.2 %	Number	Up to 4 channels	
	5 to 7 %	± 0.3 %	Measurement Range	15 to 95 %	
	7 to 10 %	± 0.5 %	NMT	Meet the standard of IEC 60601-2-10	
	> 10 %	Not specified	Sensor Type	Acceleromyography sensor	
N ₂ O:	0 to 20 %	± 2 %	Stimulation Modes	ST, TOF, PTC, DBS3.2, DBS3.3	
	20 to 100 %	± 3 %	Stimulation Current Range	0 to 60 mA	
Des:	0 to 1 %	± 0.15 %	Stimulation Current Accuracy	± 5% or ±2 mA, whichever is greater.	
	1 to 5 %	± 0.2 %	Stimulation Pulse Width	100,200 or 300µs,monophasic rectangle pulse	
	5 to 10 %	± 0.4 %	Stimulation Pulse Width Accuracy	± 10 %	
	10 to 15 %	± 0.6 %	Max. Output Voltage	300 V	
	15 to 18 %	± 1 %	BISx/BISx4	Meet standard of IEC 60601-2-26.	
	> 18 %	Not specified	Method	Bispectral Index	
Sev:	0 to 1 %	± 0.15 %	Impedance Range	0 to 999 kΩ	
	1 to 5 %	± 0.2 %	EEG Bandwidth	0.25 to 100 Hz	
	5 to 8 %	± 0.4 %	BIS Range	0 to 100 (BIS, BIS L, BIS R)	
	> 8 %	Not specified	SQI Range	0 to 100 % (SQI, SQI L, SQI R)	
Enf/Iso/Hal:	0 to 1 %	± 0.15 %	ASYM	0 to 100%	
	1 to 5 %	± 0.2 %	DSA Trend	Yes	
	> 5 %	Not specified	EEG/aEEG	Meet standard of IEC 60601-2-26.	
O ₂ :	0 to 25 %	± 1 %	EEG Channels	Up to 4 channels	
	25 to 80 %	± 2 %	Montage Mode	Biopolar mode, referential mode	
	80 to 100 %	± 3 %	Input Signal Range	- 2 mVp-p to + 2mVp-p	
awRR:	2 to 60 rpm	± 1 rpm	Max. Input DC Offset	± 500 mV	
	> 60 rpm	Not specified	CMRR	≥ 100 dB @51 kΩ imbalance and 60 Hz	
Rise Time	Sampling flow 120 ml/min, using the DRYLINE II™ watertrap and a neonatal 2.5m sampling line,		Noise Level	≤ 0.5 µV rms (0.5 Hz to 70 Hz)	
	CO ₂ / N ₂ O:	≤ 250 ms	Differential Input Impedance	> 15 MΩ @10 Hz	
	Iso/Hal/Sev/Des:	≤ 300 ms	Electrode Impedance	1 to 90 kΩ	
	Enf:	≤ 350 ms	Range	± 1 kΩ or ± 10%, whichever is greater	
	O ₂ :	≤ 600 ms	Accuracy	EBN EEG: 1024 Hz	
Sampling flow 200ml/min, using DRYLINE II™ watertrap and an adult 2.5m sampling line:			Sampling Frequency	Mindray EEG: 256Hz	
	CO ₂ / N ₂ O:	≤ 250 ms	Analog bandwidth	EBN EEG: 0.5 to 110 Hz	
	Iso/Hal/Sev/Des:	≤ 300 ms	Spectrum analysis	Mindray EEG/aEEG: 0.1 to 110 Hz	
	Enf:	≤ 350 ms	Trend	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda	
	O ₂ :	≤ 500 ms	ANI	DSA, CSA	
Sampling Delay Time			Patient	Adult, Pediatric (over 12 years old)	
Sampling flow 120 ml/min, using the DRYLINE II™ watertrap and a neonatal 2.5m sampling line,			Measurement Range	ANIi: 12 to100	
	CO ₂ :	≤ 4 sec		ANIm: 12 to 100	
	N ₂ O:	≤ 4.2 sec		Energy: 0.00 to 65.54	
	O ₂ :	≤ 4 sec	tcGas		
	Enf/Iso/Hal/Sev/Des:	≤ 4.4 sec	Interfaces with TCM CombiM, TCM TOSCA or SenTec SDM monitor.		
Sampling flow 200ml/min, using DRYLINE II™ watertrap and an adult 2.5m sampling line:			Measurement Range		
	CO ₂ :	≤ 4.2 sec	tcpCO ₂	5 to 200 mmHg	
	N ₂ O:	≤ 4.3 sec	tcpO ₂	0 to 800 mmHg	
	O ₂ :	≤ 4 sec	SpO ₂	0 to 100 %	
	Enf/Iso/Hal/Sev/Des:	≤ 4.5 sec	PR	25 to 240 bpm	
Apnea time	10,15,20,25,30,35,40 sec		Power	0 to 1000 mW	
Provide MAC value (support calibrated by age).			Accuracy	tcpCO ₂	
Support two mixed gas identify and monitoring.				TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂)	
RM				tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂)	
Method	Diff-Pressure flow			tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 5 mmHg (50 % O ₂) Better than 25 mmHg (90 % O ₂)	
Measurement Range				SpO ₂	
Flow	Adult/Pediatric: ± (2 to 120) L/min			±3 % (70 to 100 %)	
	Neonate: ± (0.5 to 30) L/min			±3 bpm	
Paw	-20 to 120 cmH ₂ O			±20 % of reading	
MVe/MVi	Adult/Pediatric: 2 to 60 L/min		iView		
	Infant: 0.5 to 15 L/min		CPU	Intel Pentium N4200 2.5GHz	
TVe/TVi	Adult/Pediatric: 100 to 1500 ml		Memory	8 GB	
	Infant: 20 to 500 ml		Hard-disk	mSATA SSD 128GB	
awRR range	4 to 120 rpm		OS	Windows 10	
Resolution					
Flow	0.1 L/min				
Paw	0.1 cmH ₂ O				
MVe/MVi	0.01 L/min (MVe/MVi < 10 L/min)				
	0.1 L/min (MVe/MVi ≥ 10 L/min)				
TVe/TVi	1 ml				
awRR:	1 rpm				
Accuracy					
Flow	Adult/Pediatric: ± 1.2 L/min or ± 10% of the reading, whichever is greater.				
	Neonate: ± 0.5 L/min or ± 10%, whichever is greater.				
Paw	± 3% of reading				
MVe/MVi	± 10% of reading				
TVe/TVi	Adult/Pediatric: ±10% or ±15 ml, whichever is greater.				

Recorder		ECG Analog Output	
Type	Thermal array	Bandwidth (-3 dB; reference frequency: 10 Hz)	
Speed	25 mm/sec, 50 mm/sec	Diagnostic Mode: 0.05 to 150 Hz	
Trace	Up to 3 (paper 50 mm width, 20 m length)	Monitor Mode: 0.5 to 40 Hz	
Supports two-slots recorder module.		Surgical Mode: 1 to 20 Hz	
Alarms		ST Mode: 0.05 to 40 Hz	
Audible indicator	Yes, 4 different alarm tones, and prompt tone	QRS Delay: ≤ 25 ms (in diagnostic mode, and non-paced)	
Visible indicator	Red/yellow/cyan LED, and alarm message	Sensitivity: 1 V/mV, ± 5 %	
Provide AlarmSight infographic alarm indicator.		Pace Enhancement	
Support iAlarm features (alarm limits recommendations, etc.)		Signal Amplitude: $V_{oh} \geq 2.5 \text{ V}$	
Support iStatus combined alarms		Pulse Width: 10 ms ± 5 %	
Data Storage		Signal Rising and Falling Time: ≤ 100 μs	
Trends Data	> 120 hrs @ 1 min, 4 hrs @ 5 sec.	IBP Analog Output	
Events	1000 events, including parameter alarms, arrhythmia events, technical alarms, and so on.	Bandwidth (-3 dB; reference frequency: 10 Hz)	
NIBP	1000 sets	0 to 40 Hz	
Interpretation of resting	12-lead ECG results	Max. Transmission Delay: 30 ms	
	20 sets	Sensitivity: 1 V/100 mmHg, ± 5 %	
Full disclosure	48 hours for all parameters and waveforms (8G storage card)	Interfacing	
	48 hours at maximum. The specific storage time depends on the waveforms stored and the number of stored waveforms. (2G storage card)	Main Unit	
OxyCRG	48 hrs	1 AC Power Connector	
ST review	120 hrs @ 1 min	2 RJ45 Network Connector, 100 Base-TX, IEEE 802.3	
Minitrend	Yes	6 USB 2.0 Connector	
Special Functions		3 Nonstandard USB SMR Connector	
Clinical Assistive Application (CAA):	HemoSight™, ST Graphic™, SepsisSight™, BoA Dashboard™, EWS, GCS, ECG 24h Summary, Pace View, AF Summary, NeuroSight	1 VP Connector, VP1 for the secondary display	
Support calculations (drug, hemodynamic, Oxygenation, Ventilation, Renal), and Titration table.		1 BNC Connector	
Support wireless connection with BeneVision TM80 and BP10.		1 Equipotential Grounding Terminal	
Support nView remote display tool		Modular iView	
Wi-Fi Communications		1 VP Connector, VP2	
Protocol	IEEE 802.11a/b/g/n	4 USB 2.0 Connector	
Modulation Mode	DSSS and OFDM	1 RJ45 Network Connector, 100 Base-TX, IEEE 802.3	
Operating Frequency		Multifunction Connector for Defib Sync and Analog Output	
IEEE 802.11b/g/n (2.4G):		1 on multi-parameter module	
ETSI/FCC/KC:	2.4 to 2.483 GHz	Barcode Scanner	Support 1D and 2D barcode
MIC:	2.4 to 2.495 GHz	Keyboard & Mouse	Support wire and wireless type
IEEE 802.11a/n (5G):		Remote Control	Support
ETSI:	5.15 to 5.35 GHz, 5.47 to 5.725 GHz	Network Printer	Support
FCC:	5.15 to 5.35 GHz, 5.725 to 5.82 GHz	Battery	
MIC:	5.15 to 5.35 GHz	Type	Rechargeable lithium-ion
KC:	5.15 to 5.35 GHz, 5.47 to 5.725 GHz, 5.725 to 5.82 GHz	Number of Battery	1
Channel Spacing	5 MHz @ 2.4 GHz (802.11 b/g/n)	Capacity	5600mAh
	20 MHz @ 5 GHz (802.11 a/n)	Run Time	> 1 hrs
Wireless Baud Rate	IEEE 802.11a: 6 to 54 Mbps		when powered by a new fully-charged battery at 25 °C±5 °C with 12-lead ECG, Resp, SpO2, 4-ch IBP, 2-ch Temp, CO2, C.O. and NIBP measurements every 15 min, WiFi enabled, and screen brightness set to default 5, 5 hrs to 90% when the monitor is off.
	IEEE 802.11b: 1 to 11 Mbps	Recharge Time	
	IEEE 802.11g: 6 to 54 Mbps	Power Requirements	
	IEEE 802.11n: 6.5 to 72.2 Mbps	AC Voltage	100 to 240 VAC (±10 %)
Output Power	< 20dBm (CE requirement: detection mode- RMS)	Current	2.8 to 1.6 A
	< 30dBm (FCC requirement, detection mode- peak power)	Frequency	50 Hz/60 Hz (±3 Hz)
Operating Mode	Infrastructure	Environmental	
Data Security	WPA-PSK, WPA2-PSK, WPA-Enterprise, WPA2-Enterprise (EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, PEAP-TLS, LEAP)	Temperature	Operating: 0 to 40 °C (32 to 104 °F) Storage: -20 to 60 °C (-4 to 140 °F)
	Encryption: TKIP and AES	Humidity	Operating: 15 to 95 % (non condensing) Storage: 10 to 95 % (non condensing)
Output		Barometric	Operating: 427.5 to 805.5 mmHg (57.0 to 107.4 kPa) Storage: 120 to 805.5 mmHg (16.0 to 107.4 kPa)
Auxiliary Output Standard	Meets the requirements of ANSI/AAMI/IEC 60601-1 for short-circuit protection and leakage current	Safety	
		Type of Protection	Class I
		Degree of Protection	MPM/IBP/C.O./NMT/(a)EEG/PiCCO/ANI module: CF ScvO2/CO2/AG/ICG/BIS/RM/rSO2 module: BF
		Protection Against Ingress of Fluids	IPX1

Some of functions marked with an asterisk may not be available. Please contact your local Mindray sales representative for the most current information.

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P/N:ENG- BeneVision N22/N19 Datasheet-210285x4P-20211225

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mindray
healthcare within reach

BeneVision seria N

Monitor de pacient

Manualul operatorului

Volum I

(BeneVision N22/BeneVision N19/BeneVision N17/
BeneVision N15/BeneVision N12/BeneVision N12C)



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Acest manual conține două volume. Volumul I conține informații legate de siguranță și introducerea despre echipament. Vă informează despre cum să efectuați alte sarcini decât măsurarea parametrilor și cum să îngrijiți și să întrețineți echipamentul. Volumul II vă arată cum să efectuați măsurători asociate parametrilor. De asemenea, menționează specificațiile pentru măsurarea parametrilor, alarmele și setările implicate.

Problemă	ACTIONI CORECTIVE
Traекторii ECG cu perturbații	<p>1. Verificați dacă electrozii sunt detașați sau uscați. Înlocuiți cu alți electrozi umezi, dacă este necesar.</p> <p>2. Verificați astfel încât conductoarele să nu fie defecte. Înlocuiți conductoarele, dacă este necesar.</p> <p>3. Verificați astfel încât cablul pacientului sau conductoarele să nu fie direcționate prea aproape de alte dispozitive electrice. Mutăți cablul pacientului sau conductoarele la distanță de dispozitivele electrice.</p>
Interferență excesivă la nivelul cauterelor	Utilizați cablurile ECG rezistente la ESU. Pentru mai multe informații, consultați 42.1 Accesorii pentru ECG .
Perturbație cauzată de mușchi	<p>Pregătire inadecvată a pielii, tremur, subiect încordat și/sau poziționare precară a electrozilor.</p> <p>1. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1 Pregătirea pielii pacientului și 20.4.2 Aplicarea electrozilor.</p> <p>2. Aplicați alți electrozi umezi. Evitați zonele musculare.</p>
Semnal intermitent	<p>1. Verificați astfel încât cablurile să fie conectate corespunzător.</p> <p>2. Verificați dacă electrozii sunt detașați sau uscați. Pregătiți pielea din nou conform descrierii din 20.4.1 Pregătirea pielii pacientului și aplicați alți electrozi umezi.</p> <p>3. Verificați astfel încât cablul pacientului și conductoarele să nu fie deteriorate. Modificați-le, dacă este cazul.</p>
Alarme excesive: ritm cardiac, defecțiune derivație	<p>1. Verificați dacă electrozii sunt uscați. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1 Pregătirea pielii pacientului și 20.4.2 Aplicarea electrozilor.</p> <p>2. Verificați în privința mișcării excesive a pacientului sau a tremurului muscular. Repozitionați electrozii. Înlocuiți cu alți electrozi umezi, dacă este necesar.</p>
Semnal ECG cu amplitudine scăzută	<p>1. Verificați dacă amplificarea ECG nu este setată la un nivel prea scăzut. Reglați amplificarea, după caz. Pentru mai multe informații, consultați 20.6 Modificarea setărilor ECG.</p> <p>2. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1 Pregătirea pielii pacientului și 20.4.2 Aplicarea electrozilor.</p> <p>3. Evitați locurile de aplicare a electrozilor. Evitați zona osoasă sau musculară.</p> <p>4. Verificați dacă electrozii sunt uscați sau dacă au fost utilizați pentru o perioadă îndelungată. Înlocuiți cu alți electrozi umezi, dacă este necesar.</p>
Formă de undă ECG lipsă	<p>1. Verificați dacă amplificarea ECG nu este setată la un nivel prea scăzut. Reglați amplificarea, după caz. Pentru mai multe informații, consultați 20.6.3 Setarea modului de analiză.</p> <p>2. Verificați astfel încât conductoarele și cablurile pacientului să nu fie conectate necorespunzător.</p> <p>3. Schimbați cablul și conductoarele.</p> <p>4. Verificați astfel încât cablul pacientului și conductoarele să nu fie deteriorate. Modificați-le, dacă este cazul.</p>
Devierea liniei de bază	<p>1. Verificați în privința mișcării excesive a pacientului sau a tremurului muscular. Fixați conductoarele și cablul.</p> <p>2. Verificați dacă electrozii sunt detașați sau uscați și înlocuiți cu alți electrozi umezi, dacă este necesar. Pentru informații suplimentare, consultați 20.4.1 Pregătirea pielii pacientului și 20.4.2 Aplicarea electrozilor.</p> <p>3. Verificați setarea filtrului ECG. Setați modul Filtru ECG la Monitor pentru a reduce devierea liniei de bază pe afișaj.</p>



Accessories and Consumables

CATALOGUE

2022.07

www.mindray.com

P/N:ENG-Accessories and Consumables Catalogue-210210X142P-20220728
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Welcome to the Mindray Accessories Catalogue

This catalogue will provide you with the parts and accessories that connect to your Mindray Patient Monitor, Electrocardiograph, Defibrillator. Each Mindray product is the product of a special brand of patient focused, clinician-friendly design. For this reason, you can expect the same service, focus and quality with our parts and accessories.

Finding the Right Part

This catalog has been designed to make finding the right part easy. Chapters are organized by specific parameter categories. Simply locate the type of part you are looking for under the appropriate category.

Note:

This catalog is not an Operating Instructions Manual. This catalog will assist you in identifying the correct parts and accessories to connect to your Mindray product, please refer to the Operating Instructions Manual.

Warnings, Precautions and Notes can also be found in the Operating Instructions.

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03

Integrated ECG Cables - AHA

For BeneVision, BeneView, ePM, iPM, uMEC, iMEC series monitors, BeneHeart defibrillator, uMED 20

Picture	Model	Part No.	No. Description	Purchasing Unit
	EA6251B	040-000961-00	ECG cable and wires (integrative): Adu/Ped, 12 Pin 5-Lead, Defib-Proof, AHA, Snap, 3.6 m	Each
	EA6231B	040-000965-00	ECG cable and wires (integrative): Adu/Ped, 12 Pin 3-Lead, Defib-Proof, AHA, Snap, 3.6 m	Each
	EA6251A	040-000960-00	ECG cable and wires (integrative): Adu/Ped, 12 Pin 5-Lead, Defib-Proof, AHA, Clip, 3.6 m	Each
	EA6231A	040-000964-00	ECG cable and wires (integrative): Adu/Ped, 12 Pin 3-Lead, Defib-Proof, AHA, Clip, 3.6 m	Each

Trunk Cables

- Easy to replace leadwires
- Meeting the requirements of EC53
- Outstanding shielding property and anti-interference performance, protecting ECG signal from being interfered
- Excellent defibrillation-proof performance, well protecting the equipment
- ESU-proof, ensuring ECG signals not interfered during operation
- Outstanding cable material, enduring repeated cleaning and disinfection
- Latex free

For BeneVision, BeneView, ePM, iPM, uMEC, iMEC series monitors, BeneHeart defibrillator, uMED 20

Picture	Model	Part No.	No. Description	Purchasing Unit
	EV6201	0010-30-42719 (009-004728-00)	ECG trunk cable: 3/5-lead, Adu/Ped, 12 Pin, Defib-Proof, AHA/IEC, 3 m	Each
	EV6211	0010-30-42723	ECG trunk cable: 3/5-lead, Adu/Ped, 12 Pin, ESU-Proof, AHA/IEC, 3 m	Each
	EV6202	0010-30-42720	ECG trunk cable: 3-lead, Ped/Neo, 12 Pin, Defib-Proof, AHA/IEC, 3 m	Each

ECG Leadwires – IEC

- Easy to replace trunk cables
- Meeting the requirements of EC53
- Outstanding shielding property and anti-interference performance, protecting ECG signal from being interfered
- Flexible and durable cables
- Outstanding cable material, enduring repeated cleaning and disinfection
- Latex free

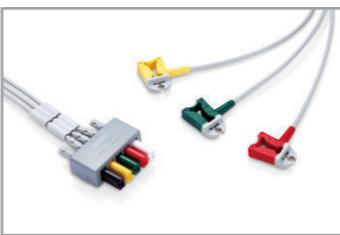
Match with 3/5-lead cables (0010-30-42719, 0010-30-42723)

Picture	Model	Part No.	No. Description	Purchasing Unit
	EL6502A	0010-30-42728	5-Lead ECG wires, Clip, Adu, TPU, IEC, 0.6 m/1m	Each

	EL6504A	0010-30-42730	5-Lead ECG wires, Clip, Adu/Ped, TPU, IEC, long, 1m/1.4 m	Each
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	EL6502B	0010-30-42736 (009-004730-00)	5-Lead ECG wires, Snap, Adu, TPU, IEC, 1m/1.4 m	Each
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Picture	Model	Part No.	No. Description	Purchasing Unit
	EL6308B	0010-30-42733	3-Lead ECG wires, Snap, Adu/Ped, TPU, IEC, 1m	Each

	EL6304A	0010-30-42732	3-Lead ECG wires, Clip, Adu/Ped, TPU, IEC, 1m	Each
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Match with 3-lead cables (0010-30-42720, 0010-30-42724)

Picture	Model	Part No.	No. Description	Purchasing Unit
	EL6306A	0010-30-42897	3-Lead ECG wires, Clip, Neo, TPU, IEC, 1m	Each

Electrode

- Latex free
- DEHP free
- Good biocompatibility, avoiding allergic reactions to patient

Picture	Model	Part No.	No. Description	Purchasing Unit
	31499224	0010-10-12304	Adult ECG Electrode (Kendall, Medi Trace 210)	10 pcs/pouch
	H124SG	900E-10-04880	Neonatal ECG Electrode (Kendall, H124SG)	50pcs/pouch
		040-002711-00	Adult ECG electrode (INTCO)	5 pcs/pouch

Picture	Model	Part No.	No. Description	Purchasing Unit
		040-002833-00	Pediatric/Neonatal ECG electrode (INTCO)	30 pcs/pouch

Match with 3-lead Neonatal cables (040-000754-00)

Picture	Model	Part No.	No. Description	Purchasing Unit
	0406062	040-003254-00	Disposable neonatal 3-lead pre-wired electrode, radio translucent, AHA, 60 cm	50 pouch/box (3 pcs/pouch)

SpO₂ Accessories

Mindray SpO₂ Accessories



Integrated SpO₂ Cable

For BeneVision, BeneView, ePM, iPM, uMEC, iMEC, VS series monitors, BeneHeart defibrillator

Picture	Model	Part No.	No. Description	Purchasing Unit
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512FLH 115-012807-00 Integrative reusable SpO₂ sensor, Adult, Finger, >30 kg, 3 m Each



518BLH 115-020887-00 Integrative reusable SpO₂ sensor, Neo, Foot (adult/pediatric, finger), <5 kg, 3 m Each

Mindray SpO₂ Cable

For BeneVision, BeneView, ePM, iPM, uMEC, iMEC, VS series monitors, BeneHeart defibrillator

- Ergonomic design, precise engineering and clinical testing guaranteeing reliable measurement
- Well anti-electromagnetic interference, suitable for complex electrical environment
- Flexible and durable cables
- Outstanding cable jacket, enduring repeated cleaning and disinfection
- Easy to change sensor, meeting clinical requirements for patient use
- Latex free

Picture	Model	Part No.	No. Description	Purchasing Unit
	562A	0010-20-42710 (009-004600-00)	Mindray SpO ₂ extension cable, 7 Pin, 2.5 m	Each
	562B	040-001443-00	Mindray SpO ₂ extension cable, 7 Pin, 1.2 m	Each

For Telemetry

Picture	Model	Part No.	No. Description	Purchasing Unit
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SAT 10 115-029488-00 Mindray SpO₂ module for BeneVision TM80, 6 Pin, 0.5 m Each

Mindray SpO₂ Sensor

Finger-Clip Sensor (Reusable)

- Ergonomic design, precise engineering and clinical testing guaranteeing reliable measurement
- High quality photoelectric element, ensuring precise measurement
- Well anti-electromagnetic interference, suitable for complex electrical environment
- Perfect performance against light interference, can be used in environment of strong light
- ESU-proof, ensuring SpO₂ signals not interfered during operation
- Strict electric safety specification, guaranteeing safety for use
- Few pit structure, not easily staining, convenient for cleaning
- Outstanding cable jacket, enduring repeated cleaning and disinfection
- Latex free
- Good biocompatibility, avoiding allergic reactions to patient

For all Mindray SpO₂ Cables and PM-50/60 pulse oximeter

Picture	Model	Part No.	No. Description	Purchasing Unit
	512F	512F-30-28263	Reusable sensor, adult, finger-clip, 1.1 m, >30 kg	Each
	512H	512H-30-79061	Reusable sensor, pediatric, finger-clip, 1.1 m, 10-30 kg	Each

Finger-Tip Sensor (Reusable)

- Ergonomic design, precise engineering and clinical testing guaranteeing reliable measurement
- High quality photoelectric element, ensuring precise measurement
- Well anti-electromagnetic interference, suitable for complex electrical environment
- Perfect performance against light interference, can be used in environment of strong light
- ESU-proof, ensuring SpO₂ signals not interfered during operation
- Strict electric safety specification, guaranteeing safety for use
- Silicone rubber sheath, not likely to break in case of drop, hardly sensor off
- Few pit structure, not likely staining, convenient for cleaning
- Outstanding cable jacket, enduring repeated cleaning and disinfection
- Latex free
- Good biocompatibility, avoiding allergic reactions to patient

For all Mindray SpO₂ Cables and PM-50/60 pulse oximeter

Picture	Model	Part No.	No. Description	Purchasing Unit
	512E	512E-30-90390	Reusable sensor, adult, finger-tip, 1.1 m, >30 kg	Each
	512G	512G-30-90607	Reusable sensor, pediatric, finger-tip, 1.2 m, 10-30 kg	Each

Adapted with the tubing (6200-30-09688, 115-012522-00, 040-002712-00)

Picture	Model	Part No.	No. Description	Purchasing Unit	Picture	Model	Part No.	No. Description	Purchasing Unit
	CM1905	040-000688-00	NIBP Cuff Tubing Adapter (Adult tubing to Neonate cuff)	Each		CM1202	0010-30-12158	Reusable cuff, Child, 18-26 cm, with connector	Each

CM1200 Series

- Soft and comfortable. Low hazard to skin even if a long-term use
- Easy to clean. The cuff wrap can not be damped or stained by liquid if duly cleaned
- Pilling-proof. Not deform even if for long-term use
- TPU bladder ensures good air tightness and long life
- Latex free, PVC free
- Good biocompatibility, free from biological hazard to skin

Connected with the tubing 6200-30-09688, 115-012522-00 and 040-002712-00

Picture	Model	Part No.	No. Description	Purchasing Unit	Picture	Model	Part No.	No. Description	Purchasing Unit
	CM1200	115-002480-00	Reusable cuff, Small Inf, 7-13 cm	Each		CM1204	0010-30-12160	Reusable cuff, Large Adu, 33-47 cm, with connector	Each
	CM1201	0010-30-12157	Reusable cuff, Inf, 10-19 cm, with connector	Each		CM1205	0010-30-12161	Reusable cuff, Thigh, 46-66 cm, with connector	Each

Temperature Accessories



Reusable Temperature Probes

- Available in Rectal/Esophageal and Skin Surface Styles
- Flexible and durable cables
- Outstanding cable material, enduring repeated cleaning and disinfection
- Latex free
- Good biocompatibility, avoiding allergic reactions to patient

For BeneVision, BeneView, ePM, iPM, uMEC, iMEC series monitors, BeneHeart defibrillator

Picture	Model	Part No.	No. Description	Purchasing Unit
	MR401B	0011-30-37392	Reusable Temp Probe, Adu, Esophageal/Rectal, 2 Pin, 3 m	Each
	MR402B	0011-30-37394	Reusable Temp Probe, Ped/Neo, Esophageal/Rectal, 2 Pin, 3 m	Each
	MR403B	0011-30-37393	Reusable Temp Probe, Adu, Skin, 2 Pin, 3.6 m	Each
	MR404B	0011-30-37395	Reusable Temp Probe, Ped/Neo, Skin, 2 Pin, 3.6 m	Each

For BeneVision, BeneView, ePM, uMEC series monitors, BeneHeart defibrillator

Picture	Model	Part No.	No. Description	Purchasing Unit
	EA6231B	115-043024-00 (100-000080-00)	M02C DRYLINE II water trap Adu/Ped for single-slot module	10 pcs/box
	EA6232B	115-043025-00 (100-000081-00)	M02C DRYLINE II water trap Neo for single-slot module	10 pcs/box

For BeneVision, BeneView, ePM, iPM, uMEC, iMEC series monitors, BeneHeart defibrillator

Picture	Model	Part No.	No. Description	Purchasing Unit
	60-15200-00	115-043017-00 (9200-10-10533)	Sampling line, Adu/Ped, 2.5 m	25 pcs/box
	60-15300-00	115-043018-00 (9200-10-10555)	Sampling line, Neo, 2.5 m	25 pcs/box
	60-14100-00	115-043020-00 (9000-10-07486)	Dryline airway adapter, straight	10 pcs/box
	60-14200-00	115-043021-00 (9000-10-07487)	Dryline airway adapter, elbow	10 pcs/box

Invasive Blood Pressure (IBP) Accessories

Invasive Blood Pressure Cables

- Compatible solution with major monitor IBP module interface and disposable pressure transducer brands in the market
- Flexible and durable cables
- Outstanding cable material, enduring repeated cleaning and disinfection
- Latex free

For BeneVision, BeneView, ePM, iPM, uMEC, iMEC series monitors, BeneHeart defibrillator

Picture	Model	Part No.	No. Description	Purchasing Unit
A white 12-pin IBP cable with two connectors, one white and one red.	IM2201	001C-30-70759	12 Pin IBP Cable (for ICU Medical), 4 m	Each

A white 12-pin IBP cable with two connectors, one white and one red.	IM2202	001C-30-70757	12 Pin IBP Cable (for BD), 4 m	Each
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A white 12-pin IBP cable with two connectors, one white and one blue.	IM2207	0010-21-43082	12 Pin IBP Cable (for Memscap, SP844 82031 transducer), 4 m	Each
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Picture	Model	Part No.	No. Description	Purchasing Unit
A white 12-pin IBP cable with two connectors, one white and one red.	IM2211	0010-21-12179	12 Pin IBP Cable (for Edwards), 4 m	Each

A white 12-pin IBP cable with two connectors, one white and one red.	IM2206	115-017849-00	12 Pin IBP cable (for Utah), 4 m	Each
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Y-type IBP cable: For BeneView, iPM series patient monitor

Picture	Model	Part No.	No. Description	Purchasing Unit
A white Y-type IBP cable with three connectors, one white and two red.	IM2204	040-001029-00	Y-type IBP cable (switch one connector to two connectors)	Each

Rolling stands

Picture	Model	Part No.	No. Description	Purchasing Unit	Picture	Model	Part No.	No. Description	Purchasing Unit
		045-003133-00	Roll Stand A ($\leq 23\text{kg}$, fixed-angle) (for N22/N19)	Each			045-003053-00	Basic rolling stand (for ePM under 12" inch screen and uMEC series in ROW market)	Each
		045-000915-00	Roll Stand B ($\leq 15\text{kg}$, fixed-angle, with two baskets) + Adapter (for N17/N15/ePM15/ePM15M)	Each			045-003052-00	VS series basic rolling stand (ONLY for ROW market)	Each
		045-003255-00	Roll Stand C ($\leq 6\text{kg}$, fixed-angle, with two brakets and barrel fix mounting) + Quick lock (for N12, ePM under 12" inch screen)	Each			045-004267-00	Rolling Stand (Standard) + commen Quick lock (compact with all existing models under 12" inch screen and VS)	Each
		045-000924-00	Roll stand (for N12, ePM and uMEC under 12" inch screen)	Each			045-004268-00	VS 8/9 Rolling Stand (Advanced) + commen Quick lock	Each
							045-004269-00	VS 8/9 Rolling Stand (Advanced, with extended battery capacity) + commen Quick lock (the extended battery 115-034132-00 need to be purchased separately)	Each

Others

Picture	Model	Part No.	No. Description	Purchasing Unit
		009-003116-00	Nurse call cable (for ePM, VS series)	Each

Picture	Model	Part No.	No. Description	Purchasing Unit
		8000-21-10361	Nurse call cable (for N series)	Each

009-005391-00	Output cable for ECG, IBP analog signal and Defib. Sync, MPM with MP1 port (for N series)	Each
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Picture	Model	Part No.	No. Description	Purchasing Unit
		009-003117-00	Analog output cable (for ePM, iPM, uMEC, iMEC series)	Each

Picture	Model	Part No.	No. Description	Purchasing Unit
		009-003118-00	Defib Sync cable (for ePM, iPM, uMEC, iMEC series)	Each

	A30-000001---	Thermal Paper (50 mmX20 m)	Each
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REFERENCE: IBP-UT

compatible Disposable IBP transducer
with Utah/Biosensors connector, to
work with Utah/Biosensor compatible

Manufacture date: 2022-10

expiry date: 2025-10

Lot number: 2210

Origin: China



Shunmei Medical Co. Ltd
No. 8 Jinlong Street, Baolong
Industrial Zone, Longgang
District, Shenzhen, China
Tel: 0086-18344359973

CE



NMT Accessory Kit

For BeneVision series monitors

Part No.	NO. Description	Purchasing Unit
115-040403-00	NMT accessory kit Including: 040-001462-00 NMT main cable 040-001463-00 NMT transducer cable 040-001464-00 NMT stimulation cable 040-002711-00 Adult ECG electrode (INTCO), 5 pcs 040-002258-00 Bandage for NMT transducer, disposable, 20 pcs	Set

115-057396-00	NMT accessory kit Including: 040-001462-00 NMT main cable 040-001463-00 NMT transducer cable 040-001464-00 NMT stimulation cable 040-002711-00 Adult ECG electrode (INTCO), 5 pcs 115-058073-00 Reusable NMT handadapter for adult/pediatric A30-000010--- Shipping label printing paper 100X150 mm	Set
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INVOS rSO₂ Accessories

For BeneVision series monitors

Picture	Part No.	Description
	115-033947-00	INVOS rSO ₂ accessory kit, Adu Including: INVOS 5100C cable, channel 1&2, with Pre-amplifier A 1pcs INVOS 5100C reusable sensor, channel 1 (blue) 1pcs INVOS 5100C reusable sensor, channel 2 (brown) 1pcs INVOS SomaSensor disposable sensor, Adu>40kg, 2 pcs
	115-033948-00	INVOS rSO ₂ accessory kit, Ped Including: INVOS 5100C cable, channel 1&2, with Pre-amplifier A 1pcs INVOS 5100C reusable sensor, channel 1 (blue) 1pcs INVOS 5100C reusable sensor, channel 2 (brown) 1pcs INVOS SomaSensor disposable sensor, Ped<40kg, 2 pcs
	115-033949-00	INVOS rSO ₂ accessory kit, Neo Including: INVOS 5100C cable, channel 1&2, with Pre-amplifier A 1pcs INVOS cable + disposable sensor, Neo<5kg, brain/body, 2 pcs