



Always in sight, always in mind

mindray









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



BeneVision. Change your perspective, again.

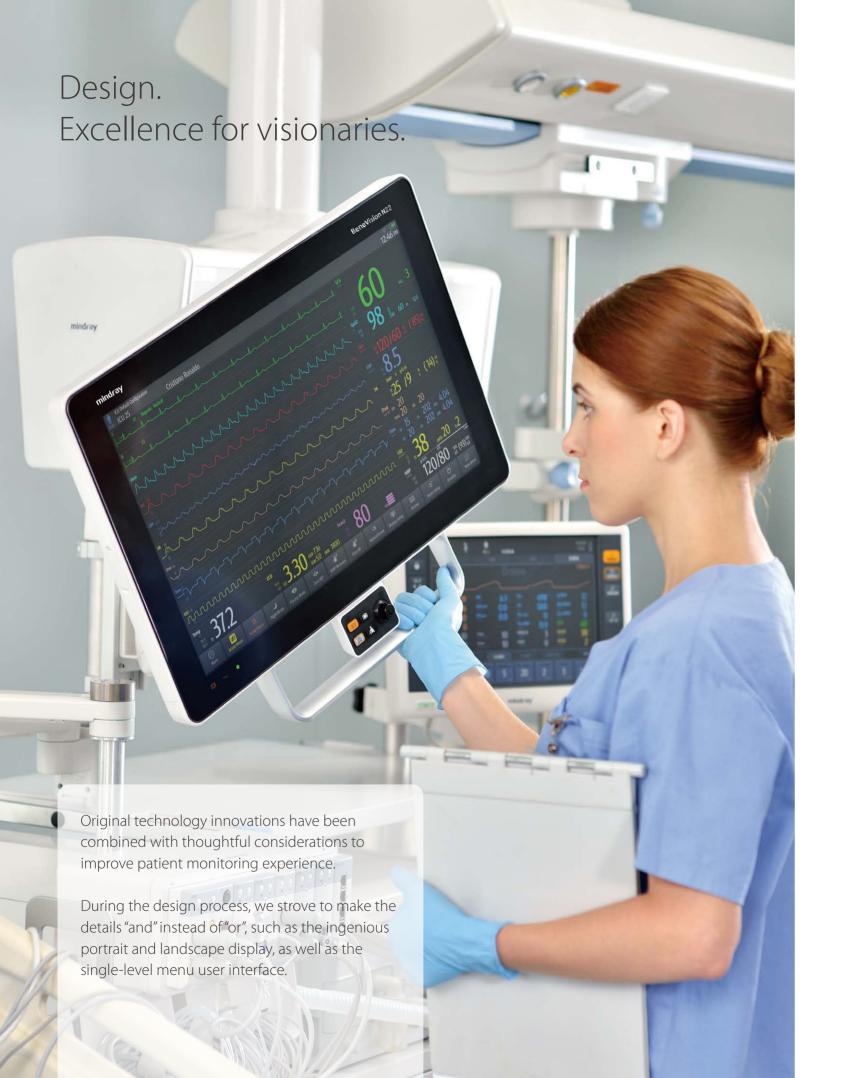
BeneVision N22/N19

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.















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.









n Seaml

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

 Δ ST 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.

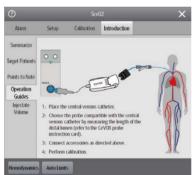


Neurology

EEG, and BIS/BISx4 monitoring.

Advanced NMT monitoring technology can detect movement in all directions accurately.





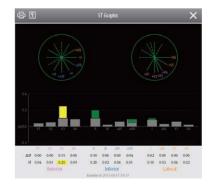
Online Guide

Diagnosis		Test			ell'a conser		-	raluati	
Diagnosis		resi		P	ollow-u	þ	EV	aluati	on
All	Time 2013-12-18 1 C1 25 Limit Parameter		30				>3.0		
Physiology Screen	GEDI 699 milmi OnTBI 700 milmi			12	50	17	150	12	
Physio	ELWI 18 mi/kg	(10	>10	(10	÷10	(10	110	110	110
Relationship		V+2	VH? Carl?	197	9+7 Cst7	997	117 Cut	397	VHT. Colf
Decision	Goal		4						
Model	GEDI	1.700	700-800	+700	700 800	+700	700 800	+ 700	700-80
	Ortes	1,650	850-1000	1 550	850-1000	1850	E50-1000	+ 650	650-10
	SW	(35)	< 10	= 10	(10	132	130	+ 10	130
	GEF	125	>30	+25	>30	125	+ 90	125	+ 30
	OCR	145	> 4.5 :	+45	+45	145	145	+ 45	+45
	ELWI		sx10		×10		:1033		6420

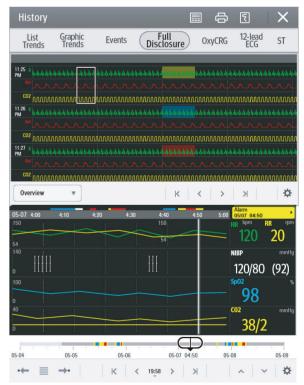
HemoSight™ Help clinicians to make decisions through sets of hemodynamic assistance applications.



Infographic alarm



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



Comparison review Events summary and details ease contextual evaluation.



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.



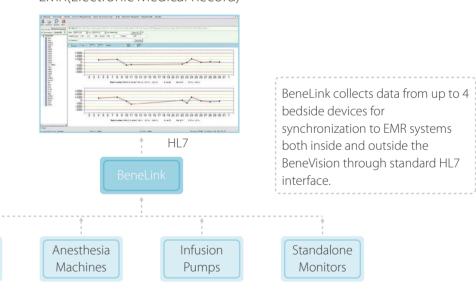
Mindray provides a flexible solution for monitoring your patient's status anywhere, anytime, even when you are away from the clinical environment...Based on layer 3 network structure, the Mindray patient monitoring system has a high network adaptability to integrate seamlessly with your hospital's current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

Including main unit with a battery, screen with Weight

handle & navigation knob, iView module, and

Wi-Fi module.

N22: 11.5 kg (25.4 lbs) N19: 10.3 kg (22.7 lbs)

Including main unit, screen with handle.

N22: 641 x 383 x 115 mm (portrait) 566 x 458 x 115 mm (landscape) N19: 584 x 348 x 115 mm (portrait) 509 x 423 x 115 mm (landscape)

Main unit: 268 x 268 x 68 mm

Display

Type Medical-grade color TFT LCD, capacitive touch

screen, support multi-touch operation. Rotatable screen (Landscape and portrait)

1680 x 1050 pixels Resolution

Screen

N22 22-inch, 178° viewing angle 19-inch, 170° viewing angle Waveforms Up to 16 waveforms (portrait) Up to 13 waveforms (landscape)

Meet standards of IEC 60601-2-27 and IEC 60601-2-25.

Lead Sets Automatic 3/5/6/12 - lead recognition

I, II, III 3-lead:

5-lead: I, II, III, aVR, aVL, aVF, V I, II, III, aVR, aVL, aVF, Va, Vb 6-lead: 12-lead: I, II, III, aVR, aVL, aVF, V1 to V6

Sweep Speed 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s **Gain Selection** x 0.125, x 0.25, x 0.5, x 1, x 2, x 4, auto

Standard, Cabrera Waveform format **Input Signal Range** ± 8 mV (p-p) Electrode Offset Potential Tolerance ± 500 mV

Bandwidth

Diagnostic Mode: 0.05 to 150 Hz Monitor Mode: 0.5 to 40 Hz **Surgical Mode:** 1 to 20 Hz ST Mode: 0.05 to 40 Hz

High Freq Cut-off (for 12-lead ECG analysis):

350 Hz, 150 Hz, 35 Hz, 20 Hz selectable

CMRR

Diagnostic: > 90 dB Monitor, Surgical, ST mode:

> 105 dB (with notch filter on)

Pace detection

Amplitude: ± 2 mV to ± 700 mV

Width: 0.1 to 2 ms

Rise time: 10 to 100 μs (without overshoot) **Defibrillator Protection** Withstand 5000VAC (360J) defibrillation

Defib. Recovery Time ≤ 5 seconds

ESU recovery time ≤ 10 s

Provides Glasgow resting 12-lead ECG algorithm.

Provides Mindray Multi(4)-lead ECG monitoring analysis algorithm.

(* These ECG specifications are from MPM Platinum module.)

Heart Rate

Measurement Range

Adult: 15 to 300 bpm Pediatric/Neonate: 15 to 350 bpm

Accuracy ± 1 bpm or ± 1%, whichever is greater.

Resolution

Arrhythmia Analysis

Adult/Pediatric/Neonate. **Patient**

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

ST Segment Analysis

Adult/Pediatric. **Patient**

- 2.0 to + 2.0 mV (RTI) Range

Accuracy ± 0.02 mV or ± 10%, whichever is greater

(-0.8 to + 0.8 mV)

Resolution 0.01 mV



Adult/Pediatric/Neonate. Patient

Parameters QT, QTc, ΔQTc

OTc Formula Bazett, Fridericia, Framingham, or Hodges

Range

OT/OTc: 200 to 800 ms OT-HR: Adult: 15 to 150 bpm

Pediatric/Neonate: 15 to 180 bpm

OT Accuracy + 30 ms

Resolution QT 4 ms; QTc 1 ms

Respiration

0 to 200 bpm Range Resolution 1 rpm

Apnea Alarm Time 10, 15, 20, 25, 30, 35, 40 sec

Accuracy

0 - 120 rpm: ±1rpm 121 - 200 rpm: ±2 rpm

I, II, or auto (default: lead II) Lead

Pulse Oximetry

Meet standards of ISO 80601-2-61.

Module Mindray, Masimo, Nellcor

Range 0 to 100 % Resolution 1%

Accuracy

Mindray/Nellcor: ± 2 % (70 to 100%, Adult/Pediatric:)

± 3 % (70 to 100%, Neonate)

Unspecified (0 to 69%)

± 2 % (70 to 100%, Adult/Pediatric, non-motion) Masimo:

± 3 % (70 to 100%, Neonate, non-motion)

± 3 % (70 to 100%, motion) Unspecified (0 to 69%)

Perfusion indicator (PI) Yes, for Mindray/Masimo SpO₂

Pitch Tone Yes

Dual-SpO₂ Yes, SpO₂, SpO₂b, ΔSpO₂

Pulse Rate Range

Mindray/Nellcor: 20 to 300 bpm 25 to 240 bpm Masimo:

Pulse Rate Accuracy

Mindray: ± 3 bpm (20 - 300 bpm) **Nellcor:** ± 3 bpm (20 - 250 bpm) Masimo: ± 3 bpm (non-motion) ± 5 bpm (motion)

PR Refresh Rate 1 sec

Temperature

Meet standard of ISO 80601-2-56.

Method Thermal resistance Channels Up to 8 channels Units of Measure Selectable °C or °F 0 to 50 °C / 32 to 122 °F Range

Resolution 0.1 °C, 0.1°F

 \pm 0.1 °C or \pm 0.2 °F (without probe) Accuracy

Refresh Rate 1 sec Genius [™] Tympanic Thermometer

Measurement Range 33 to 42 °C / 91.4 to 107.6 °F

Calibrated Accuracy ± 0.1 °C (environment temperature 25 °C,

target temperature 36.7 to 38.9 °C) \pm 0.2 °C (environment temperature 16 °C,

target temperature 33 to 42 °C) 0.1 °C, 0.1°F

Resolution **Response Time** < 2 sec **Non-Invasive Blood Pressure** Meet standards of ISO 80601-2-30. Oscillometry Method

Modes Manual, Auto, STAT, Sequence **Units of Measure** mmHg, kPa (user-selectable)

Resolution 1 mmHa

Systolic range

Adult: 25 to 290 mmHg **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 % 15 to 125 mmHg Neonate: Resolution Accuracy etCO2: 1 mmHa Max Mean Error: ±5 mmHg O₂ (optional): Max Standard Deviation: 8 mmHg Sample Flow Rate **Cuff Deflation Technique Step bleed** Adult/Pediatric: 120 ml/min (with or without O₂ monitoring) **Initial Cuff Inflation** 70 ml/min or 90 ml/min, selectable Neonate: 80 to 280 mmHg (default: 160 mmHg) Adult: 90 ml/min (with O₂ monitoring) **Pediatric:** 80 to 210 mmHg (default: 140 mmHg) **Sample Flow Rate Tolerance** Neonate: 60 to 140 mmHg (default: 90 mmHg) ±15 ml/min or ±15 %, whichever is greater. **Over Pressure Protection** Warm-up Time 90 sec (maximum), 20 sec (typically) Adult/ Pediatric: Measured with a neonatal watertrap and 2.5-meter neonatal sampling 297 ± 3 mmHa line, or an adult watertrap and a 2.5-meter adult sampling line: Neonate: 147 ± 3 mmHg **Max Measurement time Rise Time** Adult/Pediatric: ≤ 250 ms @ 70 ml/min (Neonate watertrap) 180 sec etCO₂: ≤ 250 ms @ 90 ml/min (Neonate watertrap) Neonate: 90 sec **Assisting Venous Puncture** Yes \leq 300 ms @ 120 ml/min (Adult watertrap) 30 to 300 bpm ≤ 800 ms @ 90 ml/min (Neonate watertrap) **Pulse Rate Range** O2 (optional): **Pulse Rate Accuracy** ± 3 bpm or ± 3 %, whichever is greater ≤ 750 ms @ 120 ml/min (Adult watertrap) **Sampling Delay Time** Meet standard of IEC 60601-2-34. ≤ 5.0 sec @ 70 ml/min (Neonate watertrap) etCO₂: Up to 8 channels ≤ 4.5 sec @ 90 ml/min (Neonate watertrap) Number **Measurement Range** -50 to 360 mmHg ≤ 5.0 sec @ 120 ml/min (Adult watertrap) Resolution 1 mmHg O₂ (optional): ≤ 4.5 sec @ 90 ml/min (Neonate watertrap) ± 1 mmHg or ±2 %, whichever is greater ≤ 5.0 sec @ 120 ml/min (Adult watertrap) Accuracy (excluding sensor error) awRR Range 0 to 150 rpm 5 μV/V/mmHg Sensitivity awRR Accuracy **Impedance Range** 300 to 3000 Ω 0 to 60 rpm: ±1 rpm **PPV Range** 0 to 50 % 61 to 150 rpm: **PAWP** 10, 15, 20, 25, 30, 35, 40 sec Yes **Apnea Time ICP** measurement Provide VCO₂, VO₂, MVCO₂, MVO₂, EE, RQ parameters, when monitoring Support with RM module. Support waveforms overlapping. **Pulse Rate Range** 25 to 350 bpm Oridion Microstream CO₂ **Pulse Rate Accuracy** ±1 bpm or ±1 %, whichever is greater **Measurement Range** 0 to 99 mmHg **Cardiac Output** Resolution 1 mmHg Method Thermodilution Accuracy 0.1 - 20 L/min Measurement Range 0 to 38 mmHa: ±2 mmHa $\pm 5~\% + 0.08~\%$ of the reading – 38 mmHg Resolution 0.1 L/min 39 to 99 mmHg: Accuracy ±0.1 L/min or ±5%, whichever is greater Sample Flow Rate 50 ^{-7.5}+15 ml/min 30 sec (typical) **TB Range** 23 to 43 °C / 73.4 to 109.4 °F Start-up Time ± 0.1 °C (without sensor) 2.9 s (typical) TB. TI Accuracy Response Time awRR Range 0.1 °C TB. TI Resolution 0 to 150 rpm **PiCCO** awRR Accuracy **Parameters Measurement Range Coefficient of Variation** 0 to 70 rpm: ±1 rpm cco 0.25 to 25.0 L/min ≤ **2**% 71 to 120 rpm: ±2 rpm 121 to 150 rpm: C.O. ≤ **2**% ±3 rpm 0.25 to 25.0 L/min **GFDV** 40 to 4800 ml 10, 15, 20, 25, 30, 35, 40 sec ≤ 3% Apnea time sv 1 to 250 ml ≤ **2**% Capnostat Mainstream CO₂ **EVLW** 10 to 5000 ml 0 to 150 mmHg ≤ 6% **Measurement Range** 50 to 6000 ml Resolution ≤ 3% 1 mmHg (Coefficient of variation is measured using synthetic and/or database wave forms Accuracy 0 to 40 mmHg: (laboratory testing.) Coefficient of variation=SD/mean error.) ± 2mmHg **TB Range** 23 to 43 °C / 73.4 to 109.4 °F 41 to 70 mmHg: ± 5% of reading ± 0.1 °C (without sensor) TB, TI Accuracy 71 to 100 mmHg: \pm 8% of reading **TB, TI Resolution** 0.1 °C 101 to 150 mmHg: ± 10% of reading pArt/pCVP Range -50 to 300 mmHg Rise time < 60 msec awRR Range pArt/pCVP Accuracy ± 1 mmHg or ± 2 %, whichever is greater 0 to 150 rpm awRR Accuracy ±1 rpm Provide VCO₂, MVCO₂, FeCO₂, SlopeCO₂, Vtalv, MValv, Vdaw, Vdaw/Vt, Range Accuracy ± 3% (50 to 80 %) Vdalv, Vdalv/Vt, Vdphy, Vd/Vt, when monitoring with RM module. **Anesthesia Gases** ICG Method Thoracic electrical bioimpediance (TEB) Meet standard of ISO 80601-2-55. **HR Range** 40 to 200 bpm (ICG), accuracy ±2 bpm **Sampling Rate** Adult/pediatric: C.O. Range 1.0 to 15 L/min 200 ml/min 5 to 250 ml Neonate: SV Range 120 ml/min Provides Monitoring Parameters ACI, VI, PEP, LVET, TFI, TFC, HR, C.O., C.I., Sampling Rate Tolerance ±10 ml/min or ±10%, whichever is greater. SV, SVI, SVR, SVRI, PVR, PVRI, LCW, LCWI, LVSW, LVSWI, STR, VEPT **Sampling Delay Time** < 4 sec **Continuous Cardiac Output Interface** Refresh Rate **Measured Parameter Consistent with CCO-related parameters** Warm-up Time 45 sec to warm-up status outputted by Vigilance II®, Vigileo™, EV1000 10 min to ready-to-measure status Measurement Range or HemoSphere Artema Sidestream CO₂ CO₂: 0 to 30 % Meet standard of ISO 80601-2-55. N₂O: 0 to 100 % Des/Sev/Enf/Iso/Hal: **Measurement Range** etCO₂: 0 to 150 mmHa 0 to 30 % 0 to 100 % O₂ (optional): 02: 0 to 100 % CO₂ Accuracy awRR: 2 to 100 rpm 0 to 40 mmHg: ± 2mmHg Resolution 41 to 76 mmHg: ± 5% of reading CO₂: 0.1 % 77 to 99 mmHa: ± 10% of reading N₂O: 1 % 100 to 150 mmHg: ± (3 mmHg+8% of reading) Des/Sev/Enf/Iso/Hal: O₂ Accuracy 0.1 % 0 to 25 %: O₂: 1 %

awRR:	1 rnm			Infant: ±10% or ±6 ml whichover is greater
Full Accuracy	1 rpm		awRR:	Infant: ±10% or ±6 ml, whichever is greater. ±1 rpm (4 to 99 rpm)
Gases	Range (%REL)	Accuracy (%ABS)	umm.	±2 rpm (100 to 120 rpm)
CO ₂ :	0 to 1 %	± 0.1 %	Provide loops display.	p(,
	1 to 5 %	± 0.2 %		s include PEEP, Pmean, PIP, Pplat, PEF, PIF, MVe,
	5 to 7 %	± 0.3 %	- -	EV1.0, Compl, RSBI, NIF, WOB, RAW.
	7 to 10 %	± 0.5 %	rSO ₂	, , , , , , , , , , , , , , , , , , , ,
	> 10 %	Not specified	Patient	Adult/Pediatric/Neonate.
N ₂ O:	0 to 20 %	± 2 %	Method	INVOS, NIRS (Near Infrared Spectroscopy)
	20 to 100 %	± 3 %	Number	Up to 4 channels
Des:	0 to 1 %	± 0.15 %	Measurement Range	15 to 95 %
	1 to 5 %	± 0.2 %	NMT	
	5 to 10 %	± 0.4 %	Meet the standard of I	EC 60601-2-10
	10 to 15 %	± 0.6 %	Sensor Type	Acceleromyography sensor
	15 to 18 %	± 1 %	Stimulation Modes	ST, TOF, PTC, DBS3.2, DBS3.3
	> 18 %	Not specified	Stimulation Current Ra	
Sev:	0 to 1 %	± 0.15 %		0 to 60 mA
	1 to 5 %	± 0.2 %	Stimulation Current Ac	curacy
	5 to 8 %	± 0.4 %		± 5% or ±2 mA, whichever is greater.
	>8%	Not specified	Stimulation Pulse Widt	h 100,200 or 300µs,monophasic rectangle pulse
Enf/Iso/Hal:	0 to 1 %	± 0.15 %	Stimulation Pulse Widt	h Accuracy
	1 to 5 %	± 0.2 %		± 10 %
	> 5 %	Not specified	Max. Output Voltage	300 V
O ₂ :	0 to 25 %	± 1 %	BISx/BISx4	
	25 to 80 %	± 2 %	Meet standard of IEC 6	0601-2-26.
	80 to 100 %	± 3 %	Method	Bispectral Index
awRR:	2 to 60 rpm	± 1 rpm	Impedance Range	0 to 999 kΩ
	> 60 rpm	Not specified	EEG Bandwidth	0.25 to 100 Hz
Rise Time	, cc.ip		BIS Range	0 to 100 (BIS, BIS L, BIS R)
	120 ml/min. usina t	he DRYLINE II ™ watertrap and	SQI Range	0 to 100 % (SQI, SQI L, SQI R)
	n sampling line,		ASYM	0 to 100%
CO ₂ / N ₂ O:	≤ 250 ms		DSA Trend	Yes
Iso/Hal/Sev/De			EEG/aEEG	163
Enf:	s.		Meet standard of IEC 6	0601-2-26
O ₂ :	≤ 600 ms		EEG Channels	Up to 4 channels
- - -		PRYLINE II ™ watertrap and an	Montage Mode	Biopolar mode, referential mode
adult 2.5m sam		MILINE II Water trap and an	Input Signal Range	- 2 mVp-p to + 2mVp-p
CO ₂ / N ₂ O:	≤ 250 ms		Max. Input DC Offset	± 500 mV
Iso/Hal/Sev/De			CMRR	≥ 100 dB @51 kΩ imbalance and 60 Hz
Enf:	s. ≤ 300 ms		Noise Level	≥ 100 db @31 kΩ iiiibalance and 00 H2 ≤ 0.5 μV rms (0.5 Hz to 70 Hz)
O ₂ :	≤ 500 ms		Differential Input Impe	
Sampling Delay Time			Differential input impe	> 15 MΩ @10 Hz
		he DRYLINE II ™ watertrap and	Electrode Impedance	> 13 M12 @ 10 H2
	n sampling line,	ne Dittente ii water trap and	Range	1 to 90 kΩ
CO ₂ :	≤ 4 sec		Accurancy	± 1 kΩ or ± 10%, whichever is greater
N₂O:	≤ 4.2 sec		Sampling Frequency	EBN EEG: 1024 Hz
N ₂ O.	≤ 4.2 sec ≤ 4 sec		Sampling Frequency	Mindray EEG: 256Hz
Enf /Iso/Hal/Se			Analog bandwidth	EBN EEG: 0.5 to 110 Hz
		PRYLINE II ™ watertrap and an	Alialog ballawidtii	Mindray EEG/aEEG: 0.1 to 110 Hz
adult 2.5m sam		MILINE II water trap and an	Spectrum analysis	SEF, MF, PPF, TP, SR, EMG, Delta, Theta, Alpha, Beda
CO ₂ :	≤ 4.2 sec		Trend	DSA, CSA
N₂O:	≤ 4.2 sec ≤ 4.3 sec		ANI	D3A, C3A
O ₂ :	≤ 4.5 sec ≤ 4 sec		Patient	Adult, Pediatric (over 12 years old)
Enf/Iso/Hal/Sev				ANIi: 12 to100
Apnea time		25 40 see	Measurement Range	ANII: 12 to 100 ANIm: 12 to 100
	10,15,20,25,30,			
Provide MAC value (so	• •		tcGas	Energy: 0.00 to 65.54
Support two mixed ga	as identify and mon	iitoring.		mbiM, TCM TOSCA or SenTec SDM monitor.
RM Method	Diff-Pressure flo			imblim, ICM 103CA or Sentec 3DM monitor.
	Diff-Pressure fil	ow	Measurement Range	5 to 200 mmHz
Measurement Range Flow	Adult/Dad:-4	. + (2 to 120) /min	tcpCO₂ tcpO	5 to 200 mmHg 0 to 800 mmHg
FIUW		: ± (2 to 120) L/min	tcpO₂ SpO2	0 to 100 %
Paw	Neonate: ± (0.5		SpO2 PR	
MVe/MVi	-20 to 120 cmH Adult/Pediatric	=	PK Power	25 to 240 bpm 0 to 1000 mW
IVI V C/ IVI V I	Infant: 0.5 to 15			O CO TOOU HINN
TVe/TVi		: 100 to 1500 ml	Accuracy tcpCO₂	TOSCA Sensor 92, tc Sensor 54:
i ve/ i vi	Infant: 20 to 50		tcpco ₂	
DWDD Hange		O IIII		Better than 1 mmHg (1 % or 10 % CO ₂)
awRR range Resolution	4 to 120 rpm			Better than 3 mmHg (33 % CO ₂) tc Sensor 84:
Flow	0.1 L/min			
Paw	0.1 L/min 0.1 cmH₂O			Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂)
MVe/MVi	=	e/MVi < 10 L/min)	tenO.	tc Sensor 84:
141 A C\ 141 A 1		e/MVi < 10 L/min) /MVi ≥ 10 L/min)	tcpO ₂	Better than 1 mmHg (0 % O ₂)
TVe/TVi	1 ml	¥1 ⊆ 1 V ⊑ /111111)		- · · · · · · · · · · · · · · · · · · ·
awRR:				Better than 3 mmHg (21 % O ₂)
	1 rpm			Better than 5 mmHg (50 % O ₂)
Accuracy	Adult/Dad:-4	: ± 1.2 L/min or ± 10% of the	C=0	Better than 25 mmHg (90 % O ₂)
Flow			SpO₂ PR	±3 % (70 to 100 %)
	reading, which	_	PK Power	±3 bpm
		L/min or ± 10%, whichever is	iView	±20 % of reading
Daw	greater.	•	CPU	Intel Pentium N4200 2.5GHz
Paw MVe/MVi	± 3% of reading			8 GB
mve/mvi TVe/TVi	± 10% of readir		Memory Hard-disk	8 GB mSATA SSD 128GB
i ve/ i vi		: ±10% or ±15 ml, whichever is	Hard-disk OS	Windows 10
	greater.		03	WHIGOWS IO

Recorder

Thermal array Type Speed 25 mm/sec, 50 mm/sec

Up to 3 (paper 50 mm width, 20 m length) Trace

Supports two-slots recorder module.

Alarms

Audible indicator Yes, 4 different alarm tones, and prompt tone Red/yellow/cyan LED, and alarm message Visible indicator

Provide Alarm Sight infographic alarm indicator.

Support iAlarm features (alarm limits recommendations, etc.)

Support iStatus combined alarms

Data Storage

Trends Data > 120 hrs @ 1min, 4 hrs @ 5 sec.

1000 events, including parameter alarms, Events

arrhythmia events, technical alarms, and so

on. NIBP 1000 sets Interpretation of resting 12-lead ECG results

20 sets

Full disclosure 48 hours for all parameters and waveforms

(8G storage card)

48 hours at maximum. The specific storage time depends on the waveforms stored and the number of stored waveforms. (2G storage

card) 48 hrs

OxyCRG ST review 120 hrs @1 min

Minitrend

Special Functions

Clinical Assistive Application (CAA):

HemoSight[™], ST Graphic[™], SepsisSight[™], BoA Dashboard™, EWS, GCS, ECG 24h Summary, Pace View, AF Summary, NeuroSight

Support calculations (drug, hemodynamic, Oxygenation, Ventilation,

Renal), and Titration table.

Support wireless connection with BeneVision TM80 and BP10.

Support nView remote display tool

Wi-Fi Communications

IEEE 802.11a/b/g/n **Modulation Mode DSSS and OFDM**

Operating Frequency

Wireless Baud Rate

IEEE 802.11b/g/n (2.4G):

ETSI/FCC/KC: 2.4 to 2.483 GHz MIC: 2.4 to 2.495 GHz

IEEE 802.11a/n (5G):

5.15 to 5.35 GHz, 5.47 to 5.725 GHz ETSI: FCC: 5.15 to 5.35 GHz, 5.725 to 5.82 GHz

MIC: 5.15 to 5.35 GHz

5.15 to 5.35 GHz, 5.47 to 5.725 GHz,

5.725 to 5.82 GHz

Channel Spacing 5 MHz @ 2.4 GHz (802.11 b/g/n)

> 20 MHz @ 5 GHz (802.11 a/n) IEEE 802.11a: 6 to 54 Mbps IEEE 802.11b: 1 to 11 Mbps

IEEE 802.11g: 6 to 54 Mbps IEEE 802.11n: 6.5 to 72.2 Mbps

Output Power < 20dBm (CE requirement: detection

mode-RMS)

< 30dBm (FCC requirement, detection

mode-peak power)

Operating Mode Infrastructure

WPA-PSK, WPA2-PSK, WPA-Enterprise, **Data Security**

WPA2-Enterprise (EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, PEAP-TLS,

LEAP)

Encryption: TKIP and AES

Output

Auxiliary Output

Standard Meets the requirements of ANSI/AAMI/IEC

60601-1 for short-circuit protection and

leakage current

ECG Analog Output

Bandwidth (- 3 dB; reference frequency: 10 Hz)

Diagnostic Mode: 0.05 to 150 Hz **Monitor Mode:** 0.5 to 40 Hz **Surgical Mode:** 1 to 20 Hz ST Mode: 0.05 to 40 Hz

QRS Delay ≤ 25 ms (in diagnostic mode, and non-paced)

Sensitivity 1 V/mV, ± 5 %

Pace Enhancement

Signal Amplitude: Voh ≥ 2.5 V **Pulse Width:** 10 ms ± 5 % **Signal Rising and Falling Time:** ≤ 100 us

IBP Analog Output

Bandwidth (- 3 dB; reference frequency: 10 Hz)

0 to 40 Hz

Max. Transmission Delay 30 ms

Sensitivity $1 V/100 mmHg, \pm 5 \%$

Interfacing **Main Unit**

1 AC Power Connector

2 RJ45 Network Connector, 100 Base-TX, IEEE 802.3

6 USB 2.0 Connector

3 Nonstandard USB SMR Connector

1 VP Connector, VP1 for the secondary display

1 BNC Connector

1 Equipotential Grounding Terminal

Modular iView

Barcode Scanner

1 VP Connector, VP2 4 USB 2.0 Connector

1 RJ45 Network Connector, 100 Base-TX, IEEE 802.3

Multifunction Connector for Defib Sync and Analog Output

1 on multi-parameter module Support 1D and 2D barcode Support wire and wireless type

Keyboard & Mouse Remote Control Support **Network Printer** Support

Battery

Type Rechargeable lithium-ion

Number of Battery 5600mAh Capacity

Run Time > 1 hrs

when powered by a new fully-charged battery at 25 °C±5 °C with 12-lead ECG, Resp, SpO2, 4ch 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. **Recharge Time**

Power Requirements

AC Voltage 100 to 240 VAC (±10 %)

Current 2.8 to 1.6 A 50 Hz/60 Hz (±3 Hz) Frequency

Environmental

Humidity

Temperature Operating: 0 to 40 °C (32 to 104 °F)

Storage: -20 to 60 °C (-4 to 140 °F) Operating: 15 to 95 % (non condensing) Storage: 10 to 95 % (non condensing)

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)

Safety Type of Protection

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.







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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Data publicării: Martie 2022

Revizuire: 3.0

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 implicite.

I

Problemă	Acțiuni corective
Traiectorii ECG cu perturbații	1. Verificați dacă electrozii sunt detașați sau uscați. Înlocuiți cu alți electrozi umezi, dacă este necesar. 2. Verificați astfel încât conductoarele să nu fie defecte. Înlocuiți conductoarele, dacă este necesar. 3. Verificați astfel încât cablul pacientului sau conductoarele să nu fie direcționate prea aproape de alte dispozitive electrice. Mutați cablul pacientului sau conductoarele la distanță de dispozitivele electrice.
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	Pregătire inadecvată a pielii, tremur, subiect încordat și/sau poziționare precară a electrozilor. 1. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1Pregătirea pielii pacientului și 20.4.2Aplicarea electrozilor. 2. Aplicați alți electrozi umezi. Evitați zonele musculare.
Semnal intermitent	1. Verificați astfel încât cablurile să fie conectate corespunzător. 2. Verificați dacă electrozii sunt detașați sau uscați. Pregătiți pielea din nou conform descrierii din 20.4.1Pregătirea pielii pacientului și aplicați alți electrozi umezi. 3. Verificați astfel încât cablul pacientului și conductoarele să nu fie deteriorate. Modificați-le, dacă este cazul.
Alarme excesive: ritm cardiac, defecțiune derivație	 Verificați dacă electrozii sunt uscați. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1Pregătirea pielii pacientului și 20.4.2Aplicarea electrozilor. Verificați în privința mișcării excesive a pacientului sau a tremurului muscular. Repozitionați electrozii. Înlocuiți cu alți electrozi umezi, dacă este necesar.
Semnal ECG cu amplitudine scăzută	 Verificați dacă amplificarea ECG nu este setată la un nivel prea scăzut. Reglați amplificarea, după caz. Pentru mai multe informații, consultați 20.6Modificarea setărilor ECG. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1Pregătirea pielii pacientului și 20.4.2Aplicarea electrozilor. Evitați locurile de aplicare a electrozilor. Evitați zona osoasă sau musculară. Verificați dacă electrozii sunt uscați sau dacă au fost utilizați pentru o perioadă îndelungată. Înlocuiți cu alți electrozi umezi, dacă este necesar.
Formă de undă ECG lipsă	 Verificați dacă amplificarea ECG nu este setată la un nivel prea scăzut. Reglați amplificarea, după caz. Pentru mai multe informații, consultați 20.6.3Setarea modului de analiză. Verificați astfel încât conductoarele și cablurile pacientului să nu fie conectate necorespunzător. Schimbați cablul și conductoarele. Verificați astfel încât cablul pacientului și conductoarele să nu fie deteriorate. Modificați-le, dacă este cazul.
Devierea liniei de bază	 Verificaţi în privinţa mişcării excesive a pacientului sau a tremurului muscular. Fixaţi conductoarele şi cablul. Verificaţi dacă electrozii sunt detaşaţi sau uscaţi şi înlocuiţi cu alţi electrozi umezi, dacă este necesar. Pentru informaţii suplimentare, consultaţi 20.4.1Pregătirea pielii pacientului şi 20.4.2Aplicarea electrozilor. Verificaţi setarea filtrului ECG. Setaţi modul Filtru ECG la Monitor pentru a reduce devierea liniei de bază pe afişaj.



Accessories and Consumables

CATALOGUE

2022.07







Patient Monitor Accessories Welcome to the Mindray Accessories Catalogue Defibrillator Accessories 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 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. 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.

Integrated ECG Cables - AHA

Picture	Model	Part No.	No. Description	Purchasing Unit
ricture	Model	rait NO.	No. Description	Fulchasing Offic
	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 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, 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

with 3/5-load cables (0010-30-42710, 0010-30-42723)

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,	Each				

IEC, long, 1m/1.4 m



	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	М
	EL

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	EL6308B	0010-30-42733	3-Lead ECG wires, Snap, Adu/Ped, TPU, IEC, 1m	Each
The state of the s	EL6304A	0010-30-42732	3-Lead ECG wires, Clip, Adu/Ped, TPU, IEC, 1m	Each

No. Description

Purchasing Unit

Part No.

Match with 3-lead cables (0010-30-42720, 0010-30-42724)

Materi With 3 Tead Cabies (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
in day of the state of the stat	H124SG	900E-10-04880	Neonatal ECG Electrode (Kendall, H124SG)	50pcs/pouch
		040-002711-00	Adult ECG electrode (INTCO)	5 pcs/pouch

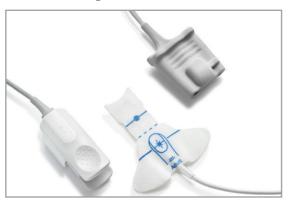
Picture	Model	Part No.	No. Description	Purchasing Unit
		040-002833-00	Pediatric/Neonatal ECG electrode (INTCO)	30 pcs/pouch

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

mater many read restricted courses (6.16 cost) 1.007						
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
	512FLH	115-012807-00	Integrative reusable SpO ₂ sensor, Adult, Finger, >30 kg, 3 m	Each
	518BLH	115-020887-00	Integrative reusable SpO ₂ 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
	SAT 10	115-029488-00	Mindray SpO ₂ 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 SpO, 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

 2

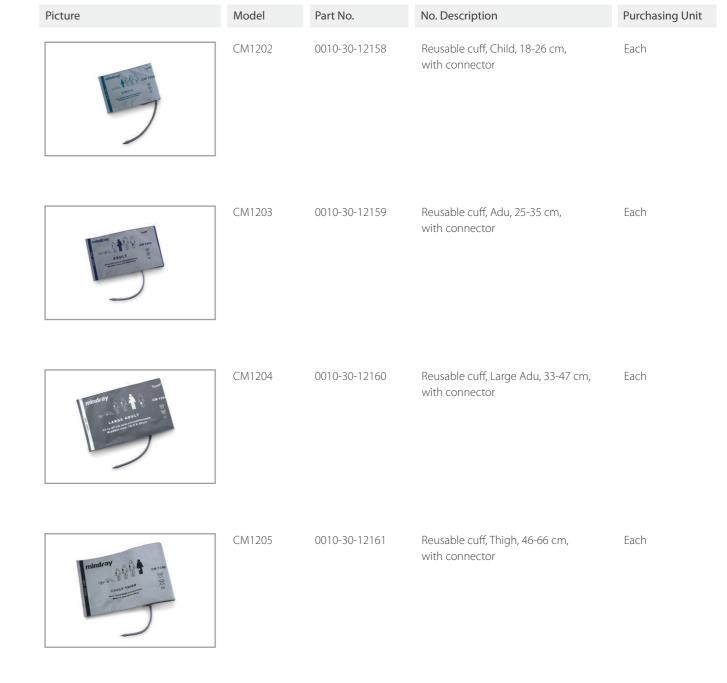
Adapted with the tubing (6200-30-09688, 115-012522-00, 040-002712-00)

Picture	Model	Part No.	No. Description	Purchasing Unit
)23	CM1905	040-000688-00	NIBP Cuff Tubing Adapter (Adult tubing to Neonate cuff)	Each

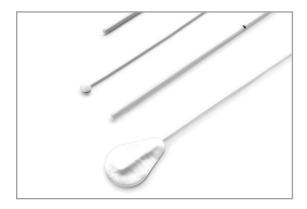
CM1200 Series

- 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		
	CM1200	115-002480-00	Reusable cuff, Small Inf, 7-13 cm	Each		
	CM1201	0010-30-12157	Reusable cuff, Inf, 10-19 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
au	MR401B	0011-30-37392	Reusable Temp Probe, Adu, Esophageal/Rectal, 2 Pin, 3 m	Each
aai	MR402B	0011-30-37394	Reusable Temp Probe, Ped/Neo, Esophageal/Rectal, 2 Pin, 3 m	Each
in the second	MR403B	0011-30-37393	Reusable Temp Probe, Adu, Skin, 2 Pin, 3.6 m	Each
in.	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

of benevision, beneview, et m, ambe series monitors, beneficial actionisator						
Picture	Model	Part No.	No. Description	Purchasing Unit		
<u>G</u>	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	M02C DRYLINE II water trap Neo	10 pcs/box		

(100-000081-00)

for single-slot module

or BeneVision, BeneView, ePM, iPI Picture	Model	Part No.	No. Description	Purchasing Unit
ricture	Wiodei	Ture IVO.	No. Description	r drendshig offic
	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

62 63

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
	IM2201	001C-30-70759	12 Pin IBP Cable (for ICU Medical), 4 m	Each



IM2202 001C-30-70757 12 Pin IBP Cable (for BD), 4 m Each



IM2207 0010-21-43082 12 Pin IBP Cable (for Memscap, SP844 Each 82031 transducer), 4 m

Picture	Model	Part No.	No. Description	Purchasing Unit
	IM2211	0010-21-12179	12 Pin IBP Cable (for Edwards), 4 m	Each
William 1	IM2206	115-017849-00	12 Pin IBP cable (for Utah), 4 m	Each

Y-type IBP cable: For BeneView, iPM series patient monitor

type for capies of beneview, it in series patient monitor						
Picture	Model	Part No.	No. Description	Purchasing Unit		
	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 (≤ 23kg, 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 (≤15kg, 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 (≤6kg, 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	Ī		045-004268-00	VS 8/9 Rolling Stand (Advanced) + commen Quick lock	Each
			c. seceny		77		045-004269-00	VS 8/9 Rolling Stand (Advanced, with extended battery capacity) + commen Quick lock (the extended batt 115-034132-00 need to be purchased so	

Others

Picture	Model	Part No.	No. Description	Purchasing Unit	Picture	Model	Part No.	No. Description	Purchasing Unit
		009-003116-00	Nurse call cable (for ePM, VS series)	Each			009-003117-00	Analog output cable (for ePM, iPM, uMEC, iMEC series)	Each
		8000-21-10361	Nurse call cable (for N series)	Each			009-003118-00	Defib Sync cable (for ePM, iPM, uMEC, iMEC series)	Each
		009-005391-00	Output cable for ECG, IBP analog signal and Defib. Sync, MPM with MP1 port (for N series)	l Each			A30-000001	Thermal Paper (50 mmX20 m)	Each

REFERENCE: IBP-UT

compatible Disposible 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





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

INVOS rSO₂ Accessories

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