

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



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



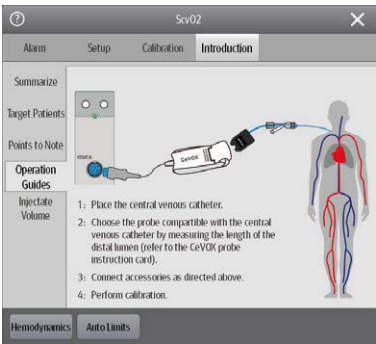
Tissue perfusion

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

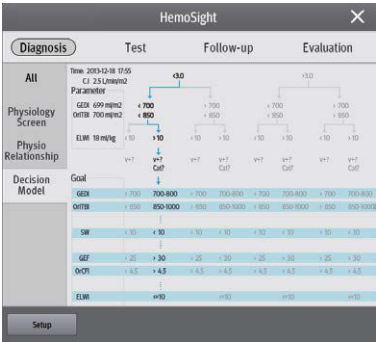


Neurology

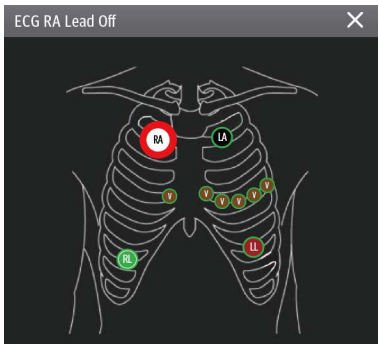
EEG, and BIS/BISx4 monitoring.
Advanced NMT monitoring technology can detect movement in all directions accurately.



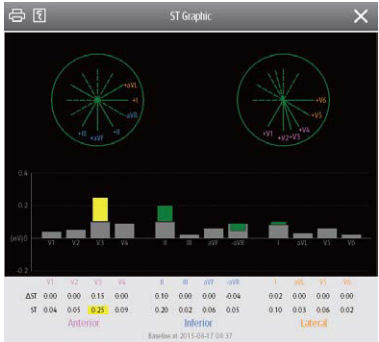
Online Guide



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.

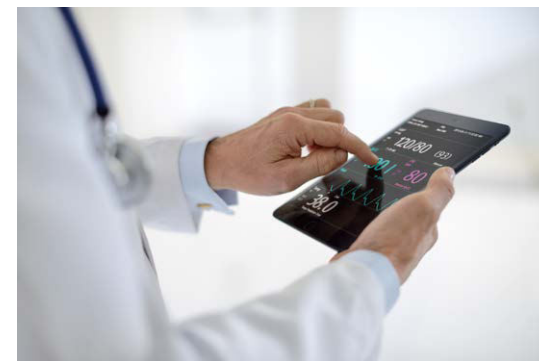
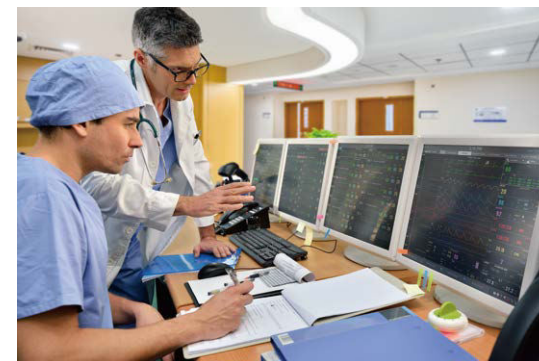


Connected. Built for a paperless future.

As a pioneer in clinical informatics with patient monitoring, Mindray integrated the embedded PC (iView) in 2007, which enables a patient monitor to run user APPs for the first time in the world. BeneVision enhances the iView open platform with a more intuitive display, modular design, and powerful performance. Patient monitoring and healthcare applications are combined into one workstation at the point of care.

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.

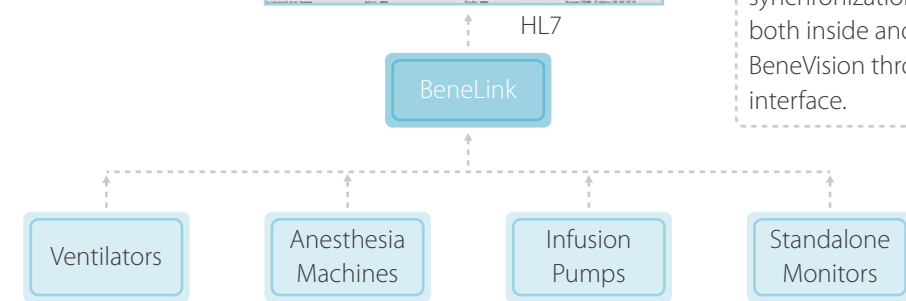
With Mindray's central station and eGateway further connecting BeneVision with your clinical world, bedside device data and other clinical system data is shared to enhance your diagnosis and clinical decision making.



BeneVision EMR(Electronic Medical Record)



BeneLink collects data from up to 4 bedside devices for synchronization to EMR systems both inside and outside the BeneVision through standard HL7 interface.



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

Weight	Including main unit with a battery, screen with handle & navigation knob, iView module, and Wi-Fi module.
N22:	11.5 kg (25.4 lbs)
N19:	10.3 kg (22.7 lbs)
Size	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)
Resolution	1680 x 1050 pixels
Screen	
N22:	22-inch, 178° viewing angle
N19:	19-inch, 170° viewing angle
Waveforms	Up to 16 waveforms (portrait) Up to 13 waveforms (landscape)

ECG

Meet standards of IEC 60601-2-27 and IEC 60601-2-25.	
Lead Sets	Automatic 3/5/6/12 - lead recognition
3-lead:	I, II, III
5-lead:	I, II, III, aVR, aVL, aVF, V
6-lead:	I, II, III, aVR, aVL, aVF, Va, Vb
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
Waveform format	Standard, Cabrera
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	1 bpm

Arrhythmia Analysis

Patient	Adult/Pediatric/Neonate.
Monitored Arrhythmias	Asystole, VFib/VTac, VTac, Vent. Brady, Extreme Tachy, Extreme Brady, Vrrhythm, 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

Patient	Adult/Pediatric.
Range	- 2.0 to + 2.0 mV (RTI)
Accuracy	± 0.02 mV or ± 10%, whichever is greater (- 0.8 to + 0.8 mV)
Resolution	0.01 mV

QT Analysis

Patient	Adult/Pediatric/Neonate.
Parameters	QT, QTc, ΔQTc
QTc Formula	Bazett, Fridericia, Framingham, or Hodges
Range	
QT/QTc:	200 to 800 ms
QT-HR:	Adult: 15 to 150 bpm Pediatric/Neonate: 15 to 180 bpm
QT Accuracy	± 30 ms
Resolution	QT 4 ms; QTc 1 ms

Respiration

Range	0 to 200 bpm
Resolution	1 rpm
Apnea Alarm Time	10, 15, 20, 25, 30, 35, 40 sec
Accuracy	
0 - 120 rpm:	± 1 rpm
121 - 200 rpm:	± 2 rpm
Lead	I, II, or auto (default: lead II)

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%)
Masimo:	± 2 % (70 to 100%, Adult/Pediatric, non-motion) ± 3 % (70 to 100%, Neonate, non-motion) ± 3 % (70 to 100%, motion) Unspecified (0 to 69%)
Perfusion indicator (PI)	Yes, for Mindray/Masimo SpO ₂
Pitch Tone	Yes
Dual-SpO₂	Yes, SpO ₂ , SpO ₂ b, ΔSpO ₂
Pulse Rate Range	
Mindray/Nellcor:	20 to 300 bpm
Masimo:	25 to 240 bpm
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

Temperature

Meet standard of ISO 80601-2-56.	
Method	Thermal resistance
Channels	Up to 8 channels
Units of Measure	Selectable °C or °F
Range	0 to 50 °C / 32 to 122 °F
Resolution	0.1 °C, 0.1 °F
Accuracy	± 0.1 °C or ± 0.2 °F (without probe)
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) ± 0.2 °C (environment temperature 16 °C, target temperature 33 to 42 °C)

Resolution

Response Time

Non-Invasive Blood Pressure

Meet standards of ISO 80601-2-30.	
Method	Oscillometry
Modes	Manual, Auto, STAT, Sequence
Units of Measure	mmHg, kPa (user-selectable)
Resolution	1 mmHg
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	

Recorder

Type	Thermal array
Speed	25 mm/sec, 50 mm/sec
Trace	Up to 3 (paper 50 mm width, 20 m length)
Supports two-slots recorder module.	

Alarms

Audible indicator	Yes, 4 different alarm tones, and prompt tone
Visible indicator	Red/yellow/cyan LED, and alarm message
Provide AlarmSight infographic alarm indicator.	
Support iAlarm features (alarm limits recommendations, etc.)	
Support iStatus combined alarms	

Data Storage

Trends Data	> 120 hrs @ 1 min, 4 hrs @ 5 sec.
Events	1000 events, including parameter alarms, 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)
OxyCRG	48 hrs
ST review	120 hrs @ 1 min
Minirend	Yes

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

Protocol	IEEE 802.11a/b/g/n
Modulation Mode	DSSS and OFDM
Operating Frequency	
	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):
ETSI:	5.15 to 5.35 GHz, 5.47 to 5.725 GHz
FCC:	5.15 to 5.35 GHz, 5.725 to 5.82 GHz
MIC:	5.15 to 5.35 GHz
KC:	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)
Wireless Baud Rate	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
Data Security	WPA-PSK, WPA2-PSK, WPA-Enterprise, 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 μs

IBP Analog Output

Bandwidth (- 3 dB; reference frequency: 10 Hz)	
	0 to 40 Hz
Max. Transmission Delay	30 ms
Sensitivity	1 V/100 mmHg, ± 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	
	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
Barcode Scanner	Support 1D and 2D barcode
Keyboard & Mouse	Support wire and wireless type
Remote Control	Support
Network Printer	Support

Battery

Type	Rechargeable lithium-ion
Number of Battery	1
Capacity	5600mAh
Run Time	> 1 hrs
	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.
Recharge Time	

Power Requirements

AC Voltage	100 to 240 VAC (±10 %)
Current	2.8 to 1.6 A
Frequency	50 Hz/60 Hz (±3 Hz)

Environmental

Temperature	Operating: 0 to 40 °C (32 to 104 °F)
	Storage: -20 to 60 °C (-4 to 140 °F)
Humidity	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	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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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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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.

Problemă	Acțiuni corective
Traietorii 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 <i>Accesorii pentru ECG</i> .
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 20.4.1 <i>Pregătirea pielii pacientului</i> și 20.4.2 <i>Aplicarea electrozilor</i>. 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 20.4.1 <i>Pregătirea pielii pacientului</i> și aplicați alți electrozi umezi. 3. Verificați astfel încât cablul pacientului și conductoarele să nu fie deteriorate. Modificați-le, dacă este cazul.
Alarmer excesive: ritm cardiac, defecțiune derivație	1. Verificați dacă electrozii sunt uscați. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1 <i>Pregătirea pielii pacientului</i> și 20.4.2 <i>Aplicarea electrozilor</i>. 2. 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	1. Verificați dacă amplificarea ECG nu este setată la un nivel prea scăzut. Reglați amplificarea, după caz. Pentru mai multe informații, consultați 20.6 <i>Modificarea setărilor ECG</i>. 2. Pregătiți pielea din nou și înlocuiți electrozii din nou. Pentru informații suplimentare, consultați 20.4.1 <i>Pregătirea pielii pacientului</i> și 20.4.2 <i>Aplicarea electrozilor</i>. 3. Evitați locurile de aplicare a electrozilor. Evitați zona osoasă sau musculară. 4. 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	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 <i>Setarea modului de analiză</i>. 2. Verificați astfel încât conductoarele și cablurile pacientului să nu fie conectate necorespunzător. 3. Schimbați cablul și conductoarele. 4. Verificați astfel încât cablul pacientului și conductoarele să nu fie deteriorate. Modificați-le, dacă este cazul.
Devierea liniei de bază	1. Verificați în privința mișcării excesive a pacientului sau a tremurului muscular. Fixați conductoarele și cablul. 2. Verificați dacă electrozii sunt detașați sau uscați și înlocuiți cu alți electrozi umezi, dacă este necesar. Pentru informații suplimentare, consultați 20.4.1 <i>Pregătirea pielii pacientului</i> și 20.4.2 <i>Aplicarea electrozilor</i>. 3. Verificați setarea filtrului ECG. Setati modul Filtru ECG la Monitor pentru a reduce devierea liniei de bază pe afișaj.



Accessories and Consumables

CATALOGUE 2022.07

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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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Patient Monitor Accessories

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02

Defibrillator Accessories

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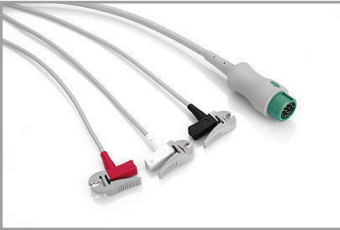
03

Electrocardiograph Accessories

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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 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

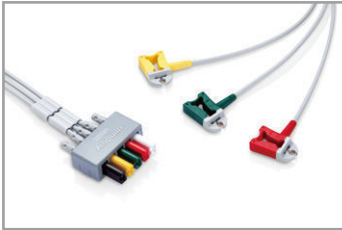
Picture	Model	Part No.	No. Description	Purchasing Unit
	EV6201	0010-30-42719 (009-004728-00)	ECG trunk cable: 3/5-lead, Adu/Ped, 12 Pin, Defib-Proof, AHA/IEC, 3 m	Each
	EV6211	0010-30-42723	ECG trunk cable: 3/5-lead, Adu/Ped, 12 Pin, ESU-Proof, AHA/IEC, 3 m	Each
	EV6202	0010-30-42720	ECG trunk cable: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

ECG Leadwires – IEC

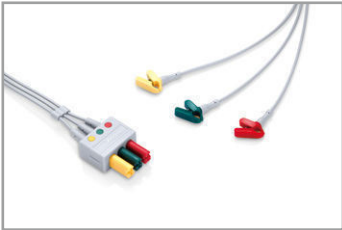
- Easy to replace trunk cables
- Meeting the requirements of EC53
- Outstanding shielding property and anti-interference performance, protecting ECG signal from being interfered
- Flexible and durable cables
- Outstanding cable material, enduring repeated cleaning and disinfection
- Latex free

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
	EL6502B	0010-30-42736 (009-004730-00)	5-Lead ECG wires, Snap, Adu, TPU, IEC, 1m/1.4 m	Each

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

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

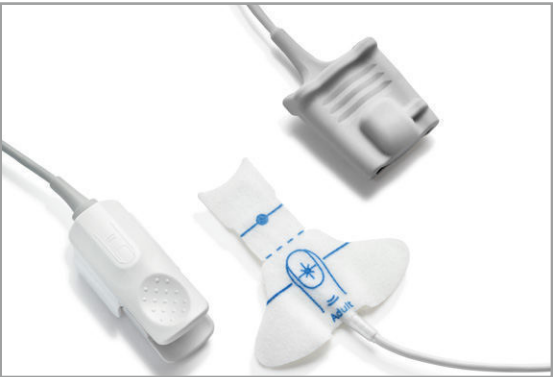
Picture	Model	Part No.	No. Description	Purchasing Unit
		040-002833-00	Pediatric/Neonatal ECG electrode (INTCO)	30 pcs/pouch

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
	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

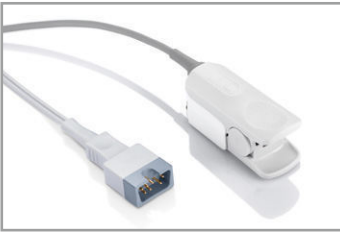
Picture	Model	Part No.	No. Description	Purchasing Unit
	SAT 10	115-029488-00	Mindray SpO ₂ module for BeneVision TM80, 6 Pin, 0.5 m	Each

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 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
	CM1905	040-000688-00	NIBP Cuff Tubing Adapter (Adult tubing to Neonate cuff)	Each

CM1200 Series

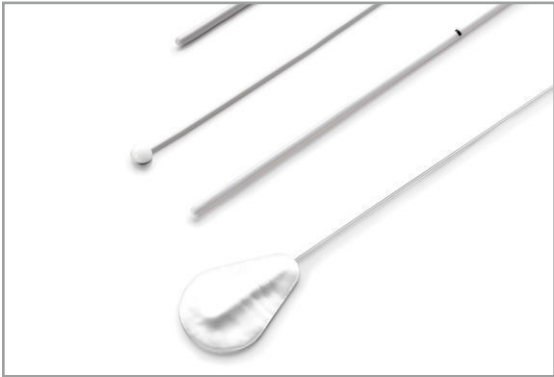
- Soft and comfortable. Low hazard to skin even if a long-term use
- Easy to clean. The cuff wrap can not be damped or stained by liquid if duly cleaned
- Pilling-proof. Not deform even if for long-term use
- TPU bladder ensures good air tightness and long life
- Latex free, PVC free
- Good biocompatibility,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

Picture	Model	Part No.	No. Description	Purchasing Unit
	CM1202	0010-30-12158	Reusable cuff, Child, 18-26 cm, with connector	Each
	CM1203	0010-30-12159	Reusable cuff, Adu, 25-35 cm, with connector	Each
	CM1204	0010-30-12160	Reusable cuff, Large Adu, 33-47 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
	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 82031 transducer), 4 m	Each

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

Y-type IBP cable: For BeneView, iPM 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
		045-003133-00	Roll Stand A (≤ 23kg, fixed-angle) (for N22/N19)	Each
		045-000915-00	Roll Stand B (≤15kg, fixed-angle, with two baskets) + Adapter (for N17/N15/ePM15/ePM15M)	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
		045-000924-00	Roll stand (for N12, ePM and uMEC under 12" inch screen)	Each

Picture	Model	Part No.	No. Description	Purchasing Unit
		045-003053-00	Basic rolling stand (for ePM under 12" inch screen and uMEC series in ROW market)	Each
		045-003052-00	VS series basic rolling stand (ONLY for ROW market)	Each
		045-004267-00	Rolling Stand (Standard) + commen Quick lock (compact with all existing models under 12" inch screen and VS)	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
		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

Picture	Model	Part No.	No. Description	Purchasing Unit
		009-003117-00	Analog output cable (for ePM, iPM, uMEC, iMEC series)	Each
		009-003118-00	Defib Sync cable (for ePM, iPM, uMEC, iMEC series)	Each
		A30-000001---	Thermal Paper (50 mmX20 m)	Each

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





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
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-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
	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
	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