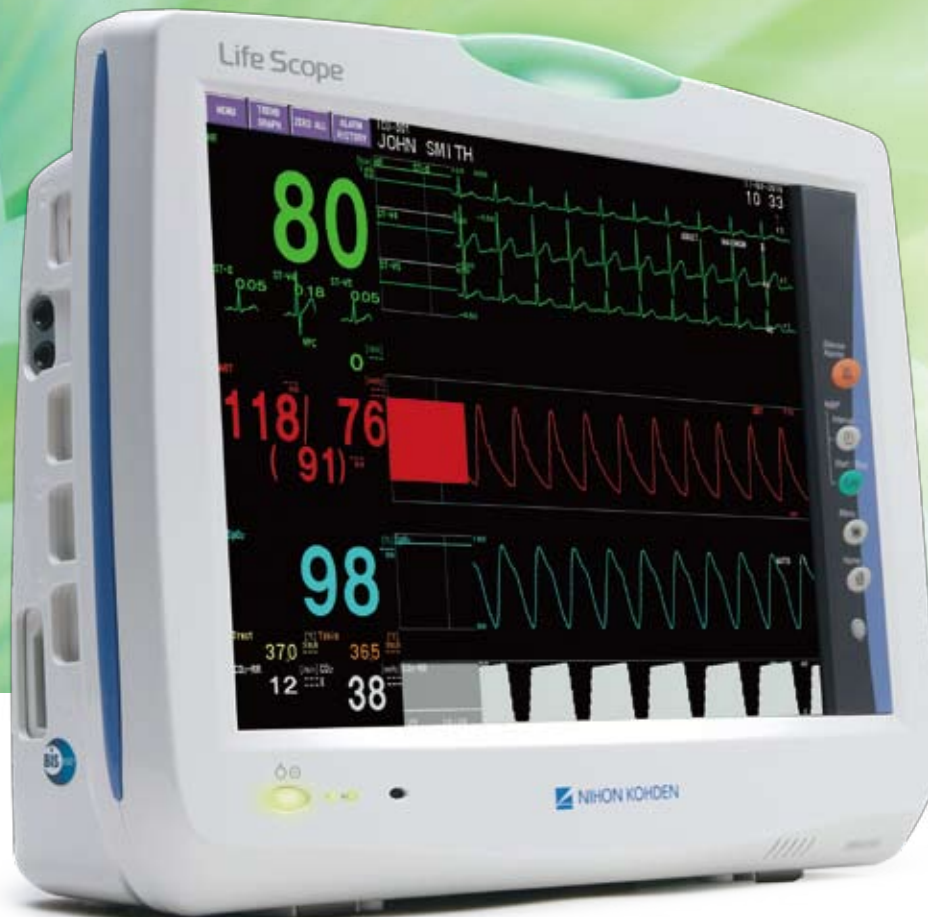


Life Scope *Vs*

Bedside Monitors BSM-3000 series

Supreme ease of use

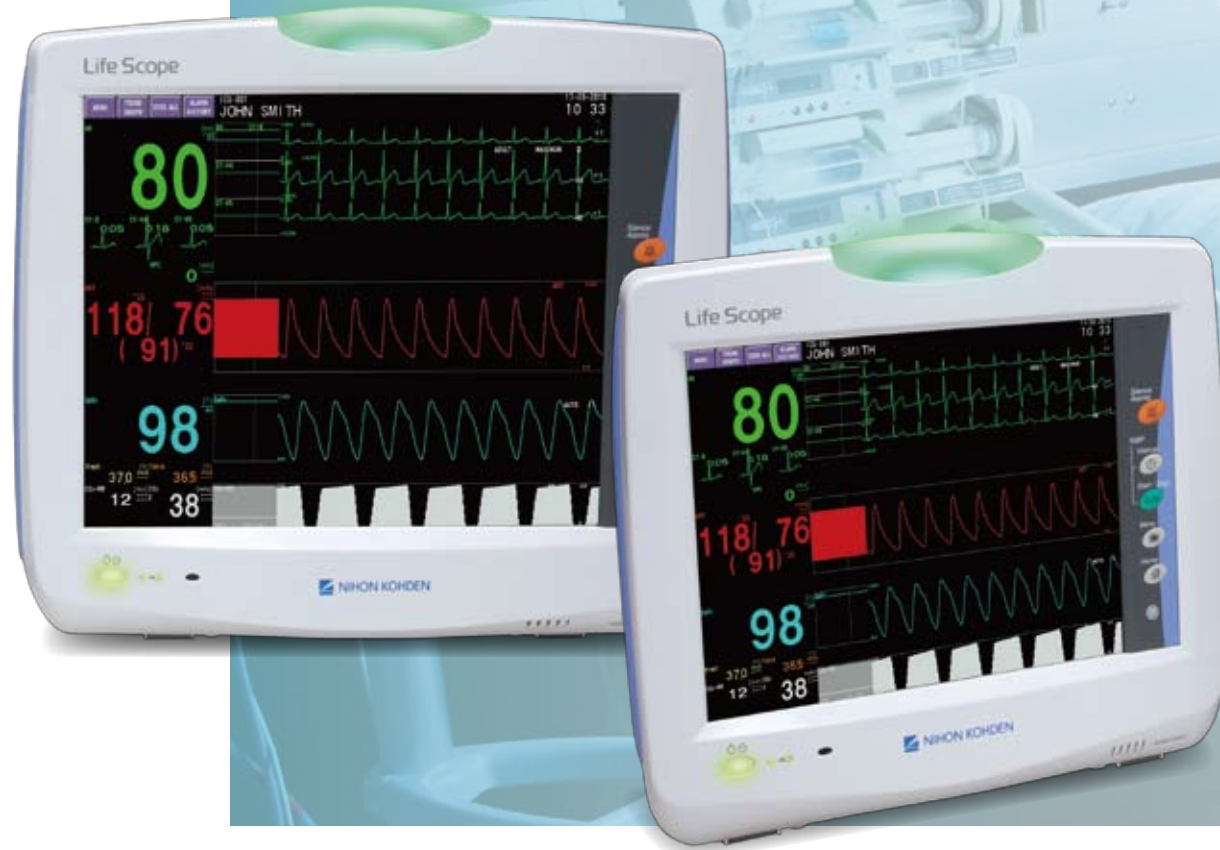


Fighting Disease with Electronics

 **NIHON KOHDEN**

Ideal fit for your site

Large display, small footprint



Flexible choice of parameters

Exactly the specifications you need for most ICU, CCU, OR, and ER needs

High quality

Reliable design and production quality for long operating life

Intuitive operation

Touch screen operation allows direct access to what you want to do



Flexible installation

Convenient setting with wall mount kit

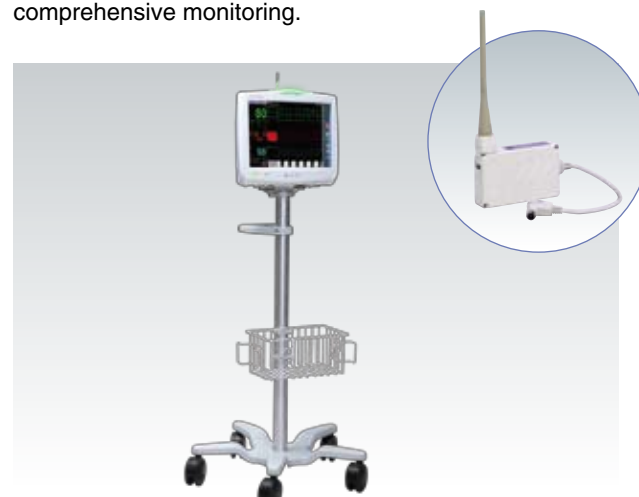
Wall mount frees space for patient and care giving staff.



BSM-3763 with KG-951P wall mount

Easy availability

The cart and transmitter provide flexible operation. Central monitoring with the transmitter allows more comprehensive monitoring.



BSM-3763 with KC-600P stand and ZS-900PK

Compact

BSM-3700 has a large screen but a small footprint. You can arrange the patient environment for most efficient care.



BSM-3763 installed on narrow space

Wireless LAN station option

Mobile monitoring is available with the wireless LAN option. **You must confirm the radio communication regulations with your country's distributor.*



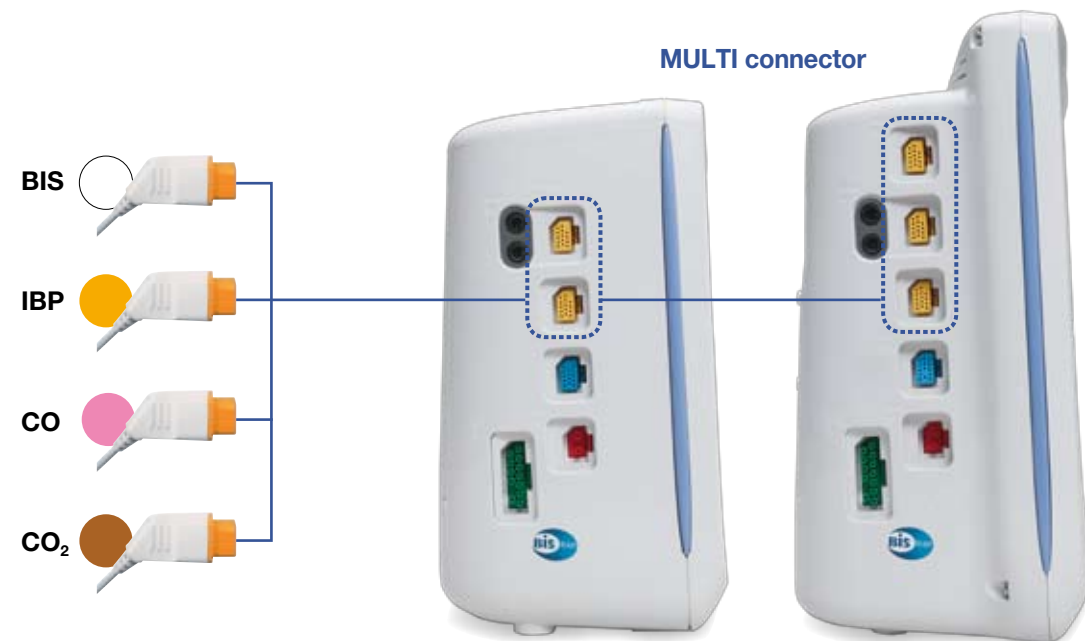
BSM-3562 with QI-320PA LAN transmitter

Common features of Nihon Kohden monitors

Smart Cable™ system - new modular technology



When you plug a Smart Cable™ into a MULTI connector, it automatically detects the type of parameter and starts measuring. The combination of fixed basic parameters and flexible MULTI connector parameters allows flexible monitoring for different patient conditions. You get complete modular flexibility at a significantly reduced cost and without the inconvenience associated with traditional modular systems.



Powerful review with easy access to historical data

Smart data review

- Up to 24 hours (72 hours with option) of 5 selected full disclosure waveforms
- Time is synchronized across all trend screens

- Trend table and trend graph can be customized for each patient condition
- Vital sign trend table, NIBP trend table, trend graph, arrhythmia recall, full disclosure, and alarm history provide comprehensive review

Full disclosure



Trend table



Trend graph



Arrhythmia recall



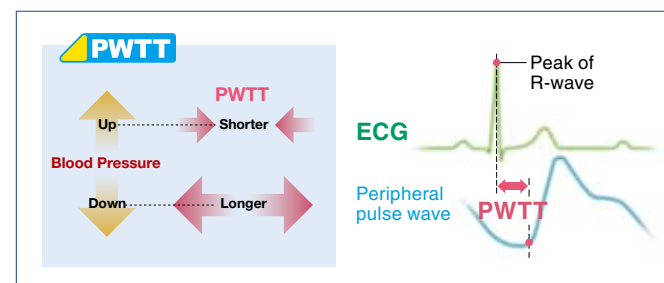
High quality monitoring increases accuracy

PWTT Triggered NIBP Measurement (Nihon Kohden patented)

For patients who don't need invasive blood pressure monitoring

PWTT (Pulse Wave Transit Time) triggered NIBP measurement increases the chance to detect a sudden change in blood pressure. PWTT can be calculated from ECG and SpO₂ non-invasively. If PWTT exceeds a threshold during periodic NIBP measurement, it triggers NIBP measurement.

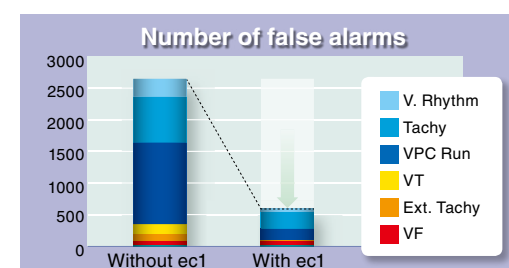
*BSM-3562K and BSM-3763K only



Highly accurate ec1 arrhythmia analysis

Greatly reduced false alarm rate allows more efficient care

Nihon Kohden's ec1 arrhythmia algorithm can reduce false alarms by 80%. ec1 has been evaluated with world standard arrhythmia databases as well as Nihon Kohden's ECG database.

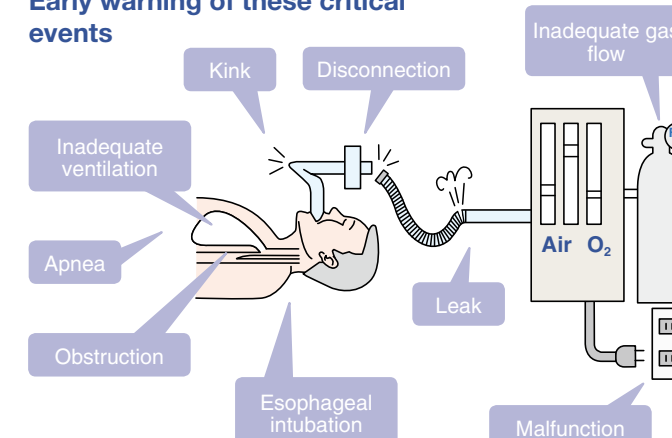


For safer patient care

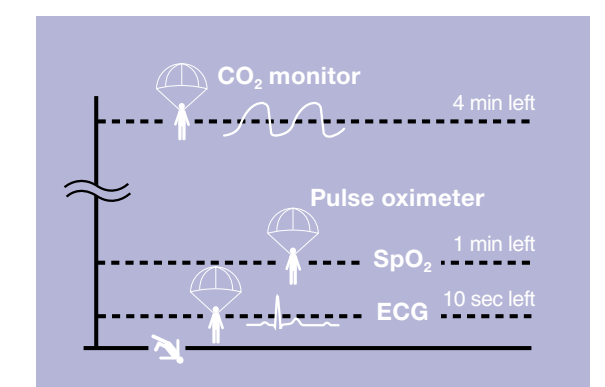
ETCO₂ measuring for safer monitoring

- Most effective parameter to prevent respiratory incidents
- Early detection of trouble in breathing or ventilator

Early warning of these critical events



Comparison of response time when oxygen supply stopped

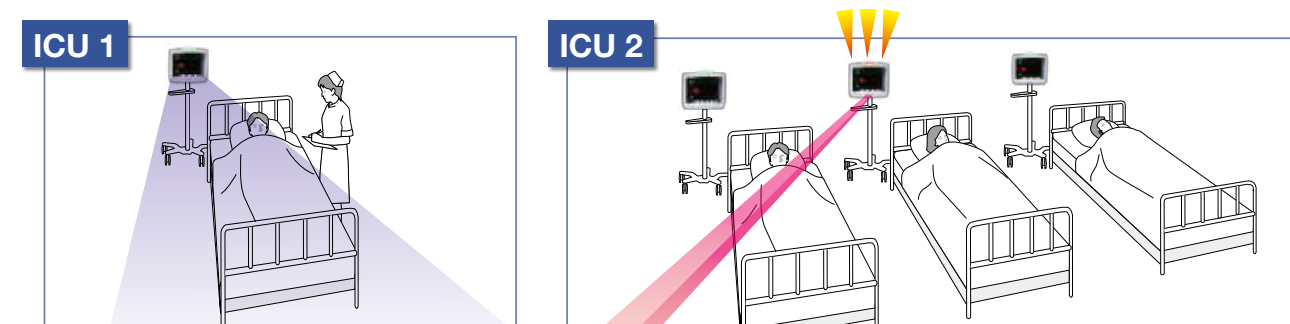


Network capability

Interbed monitoring

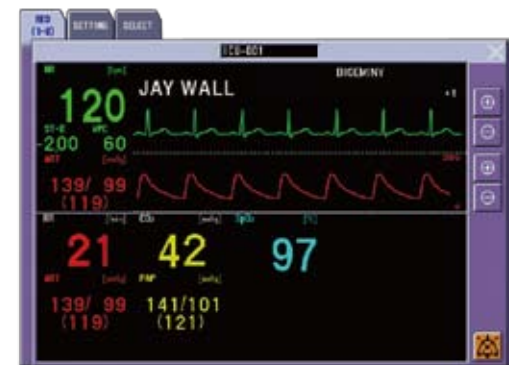
Interbed function lets you monitor other beds without a central monitor

Even if you are away from the patient, you can view that patient's alarm status on another bedside monitor. When you hear an alarm sound, confirm which patient is alarmed and use "Multiple Beds window" and "Individual Bed window" to see the alarm waveforms for the alarming patient.



Multiple Beds Window

When an alarm occurs in ICU 2, a monitor in ICU 1 alarms and indicates the alarm on the Interbed window.



Individual Bed Window

Touch the screen of the patient to display detailed data.

Transmitters

A Life Scope Vs monitor with ZS-900PK transmitter can transmit data to the central monitor wirelessly.



LAN

A Life Scope Vs monitor with a WLAN adaptor or LAN cable can transmit data to the central monitor wirelessly or by a hardwired network.

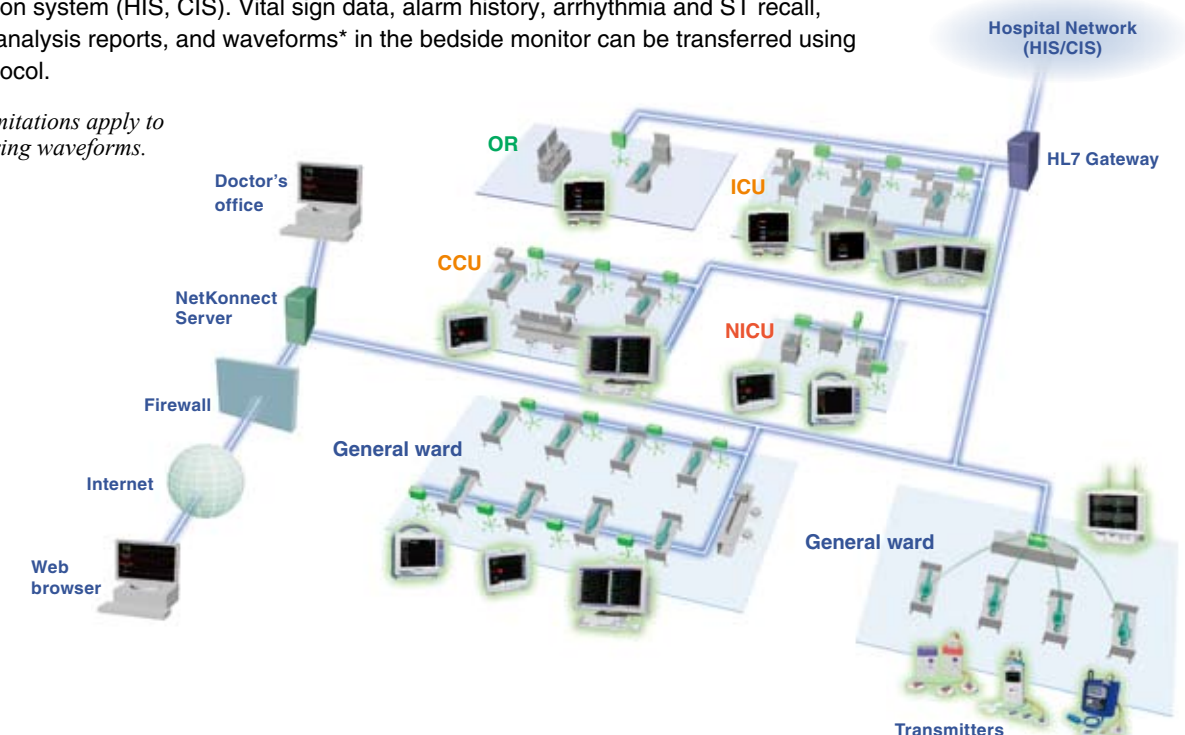
NetKconnect

With optional NetKconnect software, you can review real-time patient data and history such as full disclosure data and arrhythmia history anytime and anywhere from a PC with a web browser.

HL7 Gateway

An HL7 gateway connects the LS-NET monitor network to the hospital or clinical information system (HIS, CIS). Vital sign data, alarm history, arrhythmia and ST recall, 12-lead analysis reports, and waveforms* in the bedside monitor can be transferred using HL7 protocol.

**Some limitations apply to transferring waveforms.*



Consumables

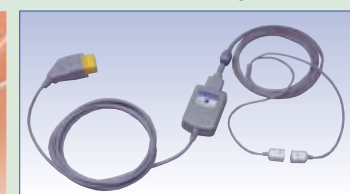
CO₂ sensor

- Fast response with no lag time
- No heater or motor
- Compact and lightweight
- No warm-up time
- No sampling tube
- Durable and easy to use

Mainstream, non-intubated and intubated patients



cap-ONE
ORAL NASAL EXPIRATION



CO₂ sensor kit TG-920P

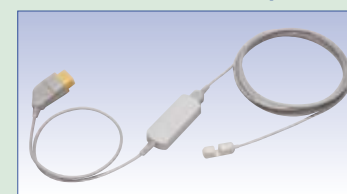


Airway adapter
R804



Oral/nasal adapter
V922
V923, with oxygen cannula
adapter

Mainstream, intubated patients



CO₂ sensor kit TG-970P



Airway adapter
R805, dead space 4 ml



Airway adapter
R806, dead space 1 ml

SpO₂ sensor

Water resistant



P225F, finger

Durable



TL-651T3, large finger



P311C, finger-tip

Disposable



P203A, adult finger
P203B, child finger

Disposable electrode

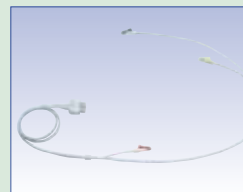


G203, adult, general



G272A, adult or child, pre-wired

Electrode lead



K916, for 3 electrodes

NIBP cuff



S949B, adult

Accessory set



Electrode lead
K911 (IEC type) or
K911A (AHA type)



ECG connection cord
K922 (IEC type) or
K922A (AHA type)



SpO₂ connection cord
K931



Air hose for NIBP
S902



Disposable electrode
G203



NIBP cuff
S944B (13 cm) or
S944C (15 cm)

Specifications

Display	BSM-3500	12.1 inch, color TFT type LCD
	BSM-3700	15 inch, color TFT type LCD
Resolution	BSM-3500	800 × 600 dots
	BSM-3700	1024 × 768 dots
MULTI connector	BSM-3532	Masimo SpO ₂ connector model
	BSM-3552	Nellcor SpO ₂ connector model
	BSM-3562	Nihon Kohden SpO ₂ connector model
	BSM-3733	Masimo SpO ₂ connector model
	BSM-3753	Nellcor SpO ₂ connector model
	BSM-3763	Nihon Kohden SpO ₂ connector model
Number of waveforms	BSM-3500	Max.14
	BSM-3700	Max.15
Waveform display mode		Non-fade moving or non-fade fixed
Parameters		ECG (3/6/10 lead), Resp, SpO ₂ , NIBP, Temp, CO ₂ , IBP, CO, EEG (8 ch), BIS, Gas, FLOW/Paw
External devices		CCO, SvO ₂ , tcPCO ₂ , TOF, ventilator, anesthesia workstation, ICP
Saved waves		24 hours (72 hours, max. 5 waves, with optional QM-601P)
Trend graph		24 hours (72 hours with optional QM-601P)
Numerical value list		24 hours (72 hours with optional QM-601P)
Arrhythmia recall		8,192 events (16,384 events with optional QM-601P)
Alarm history		8,192 events (16,384 events with optional QM-601P)
Hemodynamics data		512 files (1,024 files with optional QM-601P)
Drug calculation		Standard
Lung function		Standard
Battery operation time	BSM-3500	1.5 h
	BSM-3700	1.0 h
Recorder		3 traces (with optional WS-371P)
Network Interface		Standard
Multi Link Interface		2 (with optional QI-372P*)
Transmitter interface		Standard
Interbed		16 beds
RGB output		(with optional QI-372P*)
ECG/BP output		(with optional QI-372P*, delay time: ECG within 20 ms, BP within 40 ms)
Dimensions	BSM-3500	W370 × H310 × D172 mm
	BSM-3700	W430 × H350 × D172 mm
Weight	BSM-3500	6.2 kg
	BSM-3700	7.4 kg

*QI-372P interface (including 2 multilink ports, RGB and ECG/BP OUT sockets) for BSM-3532-Q01, BSM-3552-Q01, BSM-3562-Q01, BSM-3733-Q01, BSM-3753-Q01 and BSM-3763-Q01 is installed at the factory.

External devices

Parameter	Maker	Equipment	Cable
CO ₂	Nihon Kohden	AG-400RA/RK	QF-905P
Anesthetic gas	Nihon Kohden	AG-920RA/RK GF-110PA/120PA GF-210R/220R	QF-904P YJ-600P/YJ-601P
FLOW/Paw	Nihon Kohden	GF-120PA/GF-220R	YJ-600P/YJ-601P (GF-220R)
EEG	Nihon Kohden	AE-918P	
BIS monitor	Aspect Medical Systems	A-2000, BIS VISTA, BIS VIEW	QF-902P
CCO/SvO ₂	Edwards Lifesciences	Vigilance, Vigilance II, Vigileo	QF-903P
	Pulsion Medical Systems	PiCCO	QF-911P
	Hospira	Q-VUE/Q2/Q2 plus computer	IF-922P
tcPCO ₂	Radiometer Medical	MicroGas 7650	IF-913P
	Radiometer Medical	TCM4, TCM40	IF-914P
TOF	Organon	TOF watch SX	QF-909P
Ventilator	Dräger	Evita, Evita2, Evita4, Savina, EvitaXL	QF-901P
	Puritan Bennett	NPB-740, NPB-840	QF-907P
	Puritan Bennett	7200	IF-923P
	MAQUET	Servo i, Servo s	QF-908P
	HAMILTON MEDICAL	Galileo, Raphael, G5, C2	IF-917P
Anesthesia workstation	Dräger	Primus, Primus Infinity Empowered, Apollo, Pallas, Fabius GS, Fabius GS Premium, Fabius Tiro, Fabius plus	IF-920P

Accessory set

	Y212A	Y212B	Y213A	Y213B
Electrode lead (3 electrodes)	K911, IEC type		K911A, AHA type	
ECG connetion cord	K922, IEC type		K922A, AHA type	
Disposable electrode	G203			
SpO ₂ connection cord (Nihon Kohden)	K931			
Air hose for NIBP	S902			
NIBP cuff	S944B. 13 cm	S944C. 15 cm	S944B. 13 cm	S944C. 15 cm

This brochure may be revised or replaced by Nihon Kohden at any time without notice.



NIHON KOHDEN CORPORATION

1-31-4 Nishiochiai, Shinjuku-ku, Tokyo 161-8560, Japan
Phone +81 (3) 5996-8036 Fax +81 (3) 5996-8100
www.nihonkohden.com

