Life Scope *TR*

See the difference

Fighting Disease with Electronics

NIHON KOHDEN
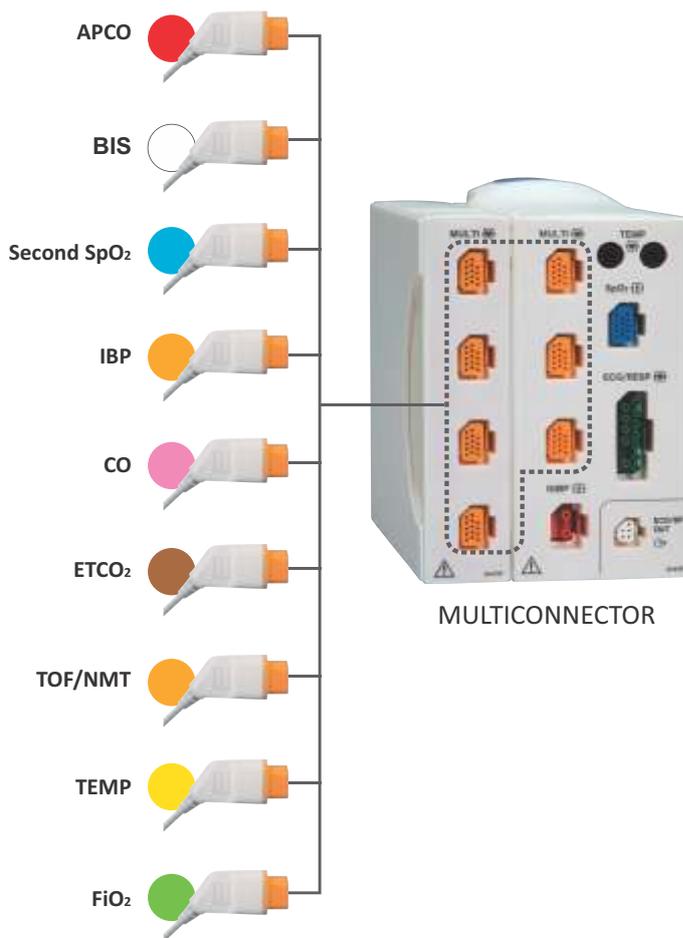
Valuable features without additional cost

Smart Cable™ system - new modular technology

Smart Cable™ technology miniaturizes circuits found in traditional modules and embeds that circuitry into the cable. With Smart Cable™ technology, you get complete modular flexibility at a significantly reduced cost and without the inconvenience associated with traditional modular systems.

When you plug a Smart Cable™ into a MULTICONNECTOR, it automatically detects the type of parameter and starts measuring.

As new parameters are developed, Nihon Kohden will incorporate the new parameters into the new Smart Cable™, guaranteeing your monitoring investment against obsolescence.

APCO

BIS

Second SpO_2

IBP

CO

$ETCO_2$

TOF/NMT

TEMP

FiO_2

MULTICONNECTOR

Smart data review

Life Scope TR provides storage and review capabilities within the bedside monitor that are typically found only in a central station. Moreover review screens can be synchronized with each other. This enables you to easily access any necessary information.

Full disclosure waveforms

Up to 72 hours of 5 selected waveforms.

Arrhythmia recall

Over 8,000 arrhythmia events. Multi-template arrhythmia analysis provides more reliable arrhythmia information.

ST template

Multi-lead ST segment monitoring provides you with continuous oversight of transient changes in your patient's cardiac condition.
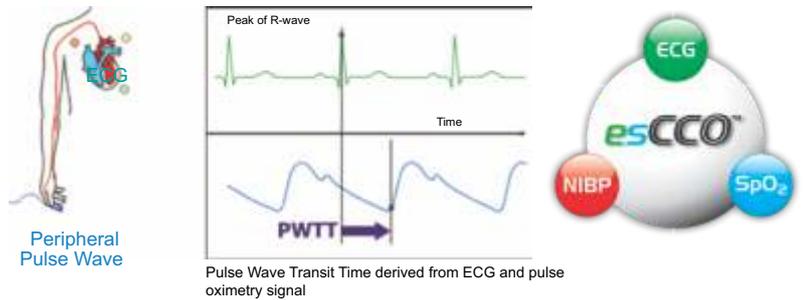
12-lead ECG analysis

Life Scope TR includes ECAPS 12C, the same 12-lead ECG interpretation software in Nihon Kohden electrocardiographs.

Intelligible Fluid Management

esCCO - Non-invasive continuous cardiac output from ECG and SpO$_2$

Nihon Kohden is redefining Quality of Care with new non-invasive technologies like PWTT and esCCO by introducing volumetric information to all care levels.
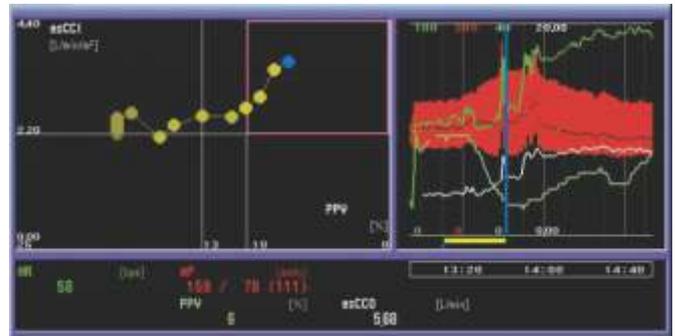
esCCO (estimated continuous cardiac output) provides real-time, continuous non-invasive cardiac output measurement alongside familiar vital sign parameters of ECG and SpO$_2$. It is safe, easy to use, economical solution for cardiac output measurement as it has no additional running costs or accessories.

Peripheral Pulse Wave

Peak of R-wave

Time

PWTT

Pulse Wave Transit Time derived from ECG and pulse oximetry signal

Visualizing Volumetric Information with Hemodynamics Graph

For quality patient care and comprehensive management of different hemodynamic parameter in septic shock patients.
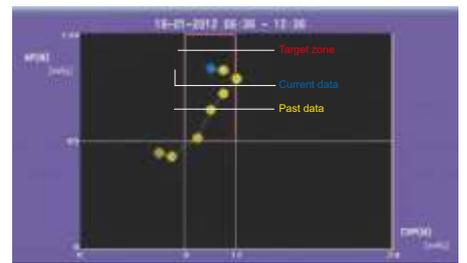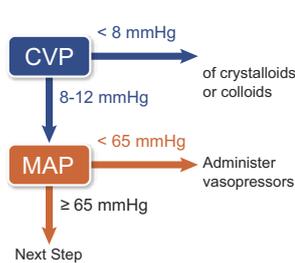
Nihon Kohden's Hemodynamic Graph provides a more intuitive approach to diagnostic and therapeutic decision making in hemodynamics management. This new tool helps clinicians easily see the direction and trend of hemodynamic change while imaging the Frank Starling curve.

Improving the Mortality Rate in Sepsis
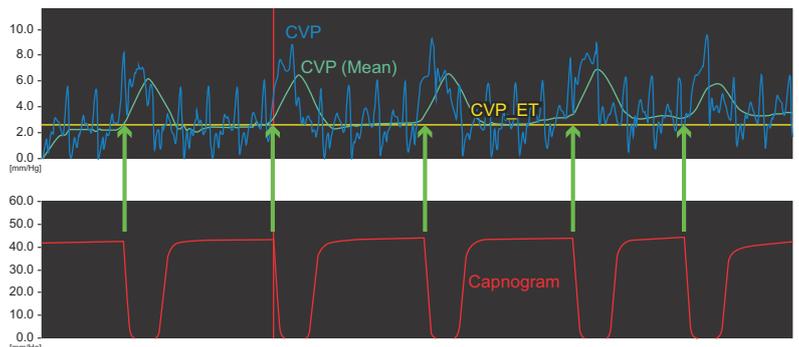
Hemodynamics graph for sepsis treatment

Blood Pressure and CVP (Central Venous Pressure) target graph can support Early Goal Directed Therapy (EGDT) according to the guidelines (SSC 2008) for initial resuscitation of severe sepsis and septic shock. The monitor plots the values on the target graph as shown in figure.

CVP/MAP initial resuscitation protocol in severe sepsis and septic shock

CVP_ET

Respiration affects intrapleural pressure and CVP value becomes unstable. Nihon Kohden original technology CVP_ET uses CO$_2$ signal to calculate the end tidal mean CVP. CVP_ET provides stable and physiologically - correct value of CVP.
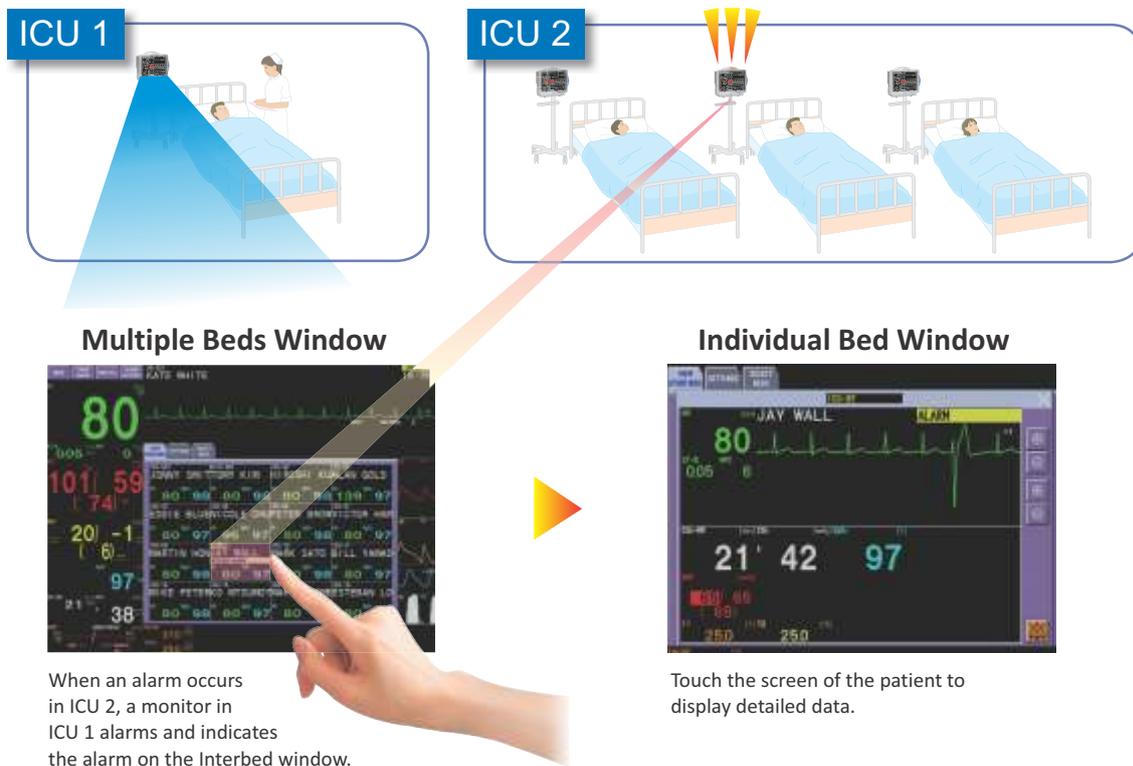
Effective Alarm System

Life Scope TR easily catches a change in the patient's condition. An effective alarm system and user friendly interface support your daily medical care.

Interbed monitoring

You can use any bedside monitor to check the vital information and alarm status of another monitor in the network, even if there is no central monitor.

Numeric data for 20 patients or numeric data and 2 waveforms for one patient can be displayed on the Interbed screen.

ICU 1

ICU 2

Multiple Beds Window

Individual Bed Window

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

Touch the screen of the patient to display detailed data.

High quality monitoring

Redefining transport

Life Scope TR provides continuous monitoring without reducing the monitoring parameters during transport. When the patient is transported to a new care setting, just detach the input unit and connect it to a different monitor.

The patient information, including trend and waveforms, is transferred to the new bedside monitor to create one seamless patient record.

BSM-6501K
12.1 inch LCD

OR

BSM-6301K
10.7 inch LCD

Transport

BSM-6701K
15 inch LCD

ICU

External Units

Multigas unit
GF-210R

Multigas/flow unit
GF-220R

Neuro unit
AE-918P

BSM-6000 series

BIS® processor
QE-910P

Ventilators
- Dräger
- Puritan Bennett
- MAQUET
- Hamilton
- GE
- Newport Medical
- Air Liquide
- ResMed
- Metran
- Care Fusion

Anesthesia workstation
- Dräger
- GE
- MAQUET
- Heinen + Löwenstein
- Air Liquide

CCO monitors
- Edwards Lifesciences
  Vigilance, Vigilance II, Vigileo

- **Hospira**
  Q2™, Q2™ Plus, Q-Vue™
  Pulsion Medical Systems
  PiCCO monitor

Regional saturation of oxygen (rSo$_2$)
- Covidien
  Invos 5100c

NMT Module (TOF)
AF-101P

Major Options

Input Unit (3 MULTI connectors)
AY-663P: for Nihon Kohden (SpO$_2$)
AY-653P: for Nellcor OxiMax® (SpO$_2$)
AY-633P: for Masimo SET® (SpO$_2$)

Input Unit (1 MULTI connector)
AY-661P: for Nihon Kohden (SpO$_2$)
AY-651P: for Nellcor OxiMax® (SpO$_2$)
AY-631P: for Masimo SET® (SpO$_2$)

Input Unit (1 MULTI connector, IBP/CO$_2$
dedicated type)
AY-660P: for Nihon Kohden (SpO$_2$)

Memory Unit
QM-600P

Memory Card
QM-601P

Hemodynamics Review Program
(including esCCO)
QP-033P

esCCO Program
QP-034P

Smart Unit (4 MULTI connectors)
AA-674P

Smart Unit (2 MULTI connectors)
AA-672P

Data Acquisition Unit
(no MULTI connectors)
JA-690PA

Recorder Module
WS-671P

Remote Controller
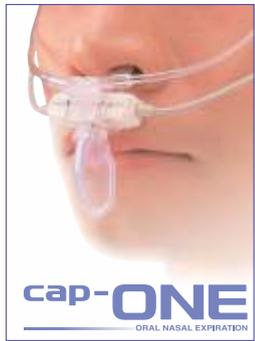RY-910PA

Battery Charger
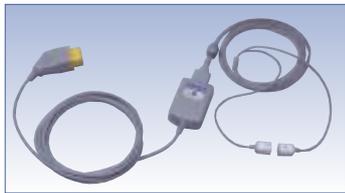SB-610RK

Consumables

CO$_2$ sensor

Fast response with no lag time
No warm-up time
Compact and lightweight

No heater or motor
No sampling tube
Durable and easy to use

Mainstream, non-intubated and intubated patients

cap-ONE
ORAL NASAL EXPIRATION

CO$_2$ sensor kit TG-920P

Airway adapter
R804

Oral/nasal adapter
V923, with oxygen cannula
adapter

SpO$_2$ sensor

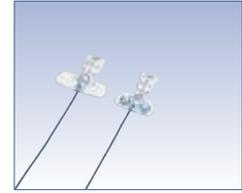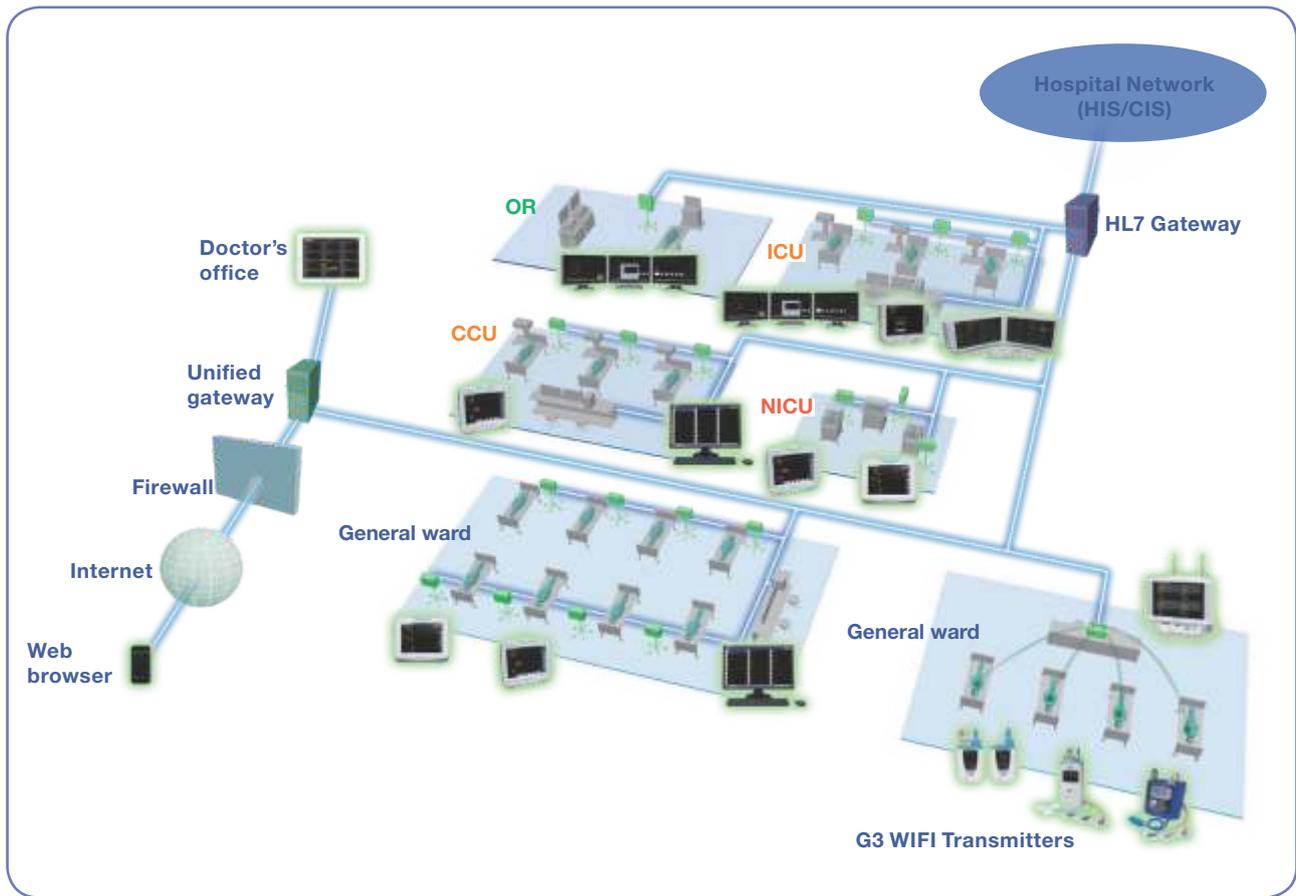**Water resistant**

P225F, finger

Durable

TL-651T3, finger

Durable

P225G, Multisite Type
Neonate to Adult use

Disposable

P203A, adult finger
P203B, child finger

Life Scope Network

Hospital Network
(HIS/CIS)

OR

Doctor's office

ICU

HL7 Gateway

CCU

Unified gateway

NICU

Firewall

General ward

Internet

General ward

Web browser

G3 WIFI Transmitters

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