

Standard Items



Hemodynamic unit, AP-170P



IBP connection cord for PiCCO, JP-170P



CO connection cord for PiCCO, JT-170P

Options*

For PiCCO Technology

- PiCCO monitoring kit
- PiCCO catheters
- PiCCO catheter kit
- Injectate sensor cable

For CeVOX Technology

- CeVOX module
- CeVOX fiberoptic probes

For ProAQT Technology

- ProAQT sensor cable
- ProAQT sensor

*Supplied from PULSION Medical Systems

Connectibility

Nihon Kohden Life Scope series bedside monitors.

Ask your sales representatives for details.



Hemodynamic unit AP-170P

Nihon Kohden unique technology
For patients with non-invasive parameters

Redefining quality of care with non-invasive hemodynamics monitoring



esCCO (estimated continuous cardiac output) is new technology to determine the cardiac output using Pulse Wave Transit Time (PWTT) which is obtained by the pulse oximetry and ECG signals. esCCO provides real-time, continuous and non-invasive cardiac output measurement alongside the familiar vital sign parameters of ECG and SpO₂. esCCO is very cost-saving solution because it has no additional running costs or accessories.

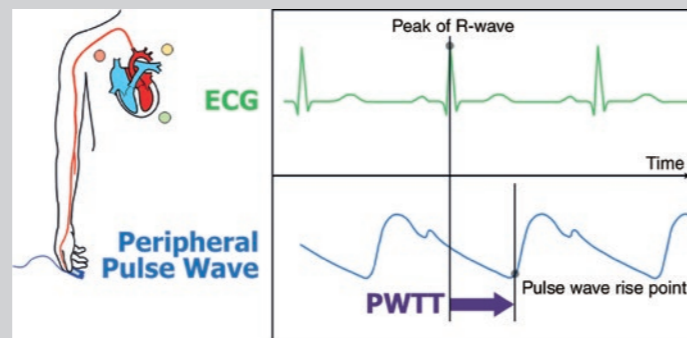


Figure: Pulse Wave Transit Time derived from ECG and pulse oximetry signal

Photographs taken at: Mashup studio, Central Uni Co., Tokyo, Japan
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NIHON KOHDEN CORPORATION
1-31-4 Nishiochiai, Shinjuku-ku, Tokyo 161-8560, Japan
Phone +81 3-5996-8041
<http://www.nihonkohden.com/>

Hemodynamic monitoring beyond all expectations

- All-in-one for comprehensive solution
- Supports therapeutic decision findings
- Smart data review guides you faster intervention

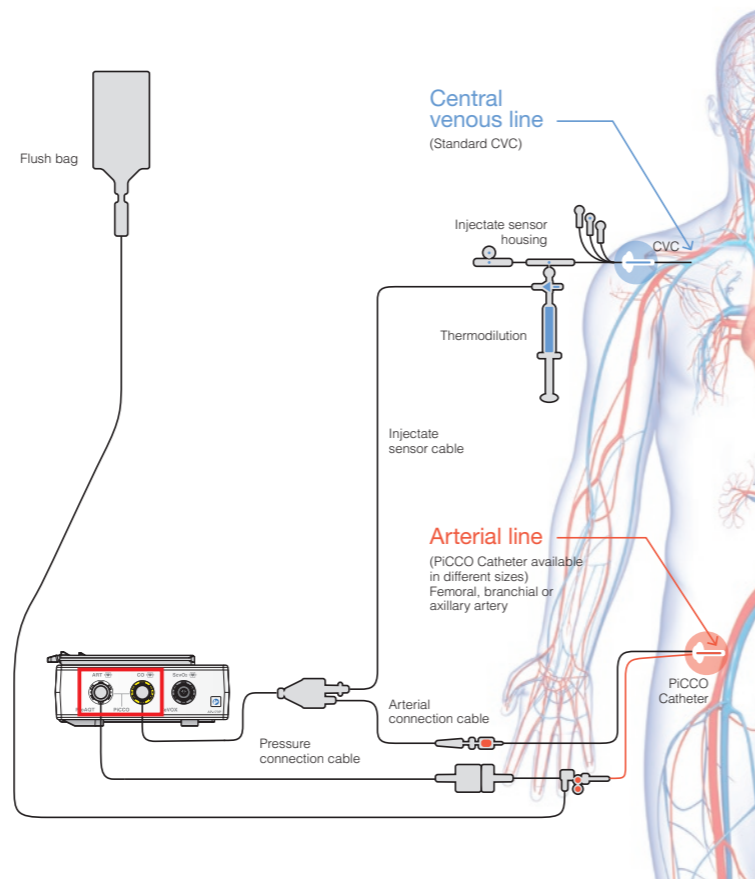


Understand complex conditions with PiCCO technology

PiCCO

The PiCCO technology is a combination of the transpulmonary thermodilution method and arterial pulse contour analysis that provides advanced hemodynamic and volumetric management information.

The PiCCO method utilizes the standard central venous line in combination with a special PiCCO catheter that has a thermistor located at its tip.

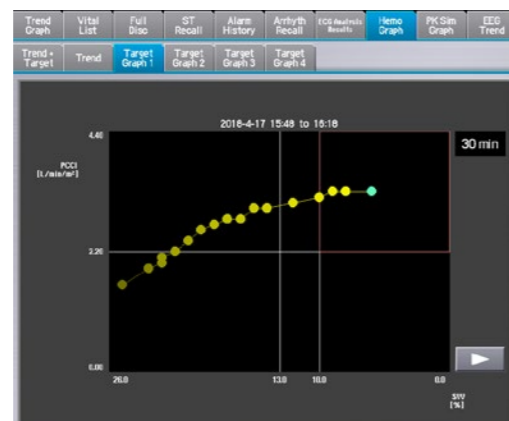


PiCCO indications

- Septic shock
- Severe burn injuries
- Cardiogenic shock
- Pancreatitis
- Traumatic shock
- High risk surgical procedures
- ARDS

Smart data review

You can check all hemodynamics data at a glance and visualize volumetric information.



Hemodynamic graph

ProAQT

The ProAQT technology continuously measures arterial pressure with a pressure transducer and calculates circulatory dynamics trend parameters such as a continuous cardiac output trend.



CeVOX

The CeVOX technology acquires and calculates parameter such as a central venous oxygen saturation measured by the connected external module.



ProAQT indications

- Perioperative fluid management for goal directed therapy (GDT) in
 - High-risk patients
 - High risk procedures
- Assessment of therapy effect
- Early recognition of unstable patients

CeVOX indications

- ScvO₂ indicates if oxygen delivery and oxygen consumption are in balance
- Low ScvO₂ clearly necessitates immediate action
- ScvO₂ can be regarded as add-on to PiCCO in severe shock situations

Method	PiCCO	ProAQT	CeVOX
Pulse contour analysis (continuous)	Flow	PCCI, SVI	PCCI, SVI
	Contractility	dPmax, CPI	dPmax, CPI
	Afterload	SVRI	SVRI
Thermodilution (discontinuous)	Volume responsiveness	SVV, PPV	SVV, PPV
	Flow	CI	
	Preload	GEDVI	
Oxymetry	Contractility	CFI, GE	
	Pulmonary edema	ELWI, PVPI	
	Oxygen saturation		ScvO ₂