GZ-140

Ambulatory Vital Signs

ECG, respiration rate, pulse





- Runs over shared or dedicated Wi-Fi networks, or independently in local monitoring mode
- Maintains a comprehensive patient record with up to 15-minute data backfill in the event of wireless coverage loss
- Automatically switches to local monitoring mode during Wi-Fi coverage loss





- Premium as standard philosophy; all devices are fully featured, including arrhythmia analysis and full disclosure
- Helps detect falls and wandering with a proprietary algorithm
- Enables expansion of ambulatory monitoring throughout the hospitall



- Complies with current wireless security protocols, including 802.1X and WPA2 Enterprise with AES encryption and EAP authentication
- Seamless integration with hospital enterprise system, with authorized access to data on the Nihon Kohden network
- Software upgrades and security updates included for the life of the equipment



Inflationary non-invasive blood pressure.

Quicker and more comfortable non-invasive blood pressure measurements compared to traditional deflation method.





Specifications **GZ-140**

MEASURED PARAMETERS

Waveforms: ECG (up to 8 vectors), respiration,

SpO₂ pulse waveform

Numeric Data: Heart rate, respiration rate, SpO₂, pulse rate, NIBP

DISPLAYED DATA

 Display Screen:
 3.2," TFT color LCD

 Waveforms:
 ECG, respiration curve, SpO2 pulse waveform

 Numeric Date:
 Heart rate, VPC rate, ST level, respiration rate, SpO2, pulse rate, NIBP (Systolic (SYS), diastolic (DIA), mean (MAP))

 Status
 Battery level, alarm suspended, pause monitoring, ECG lead, pacing detection, electrode status, SpO2 status

Review Data:* Full Disclosure: 1 hour, Tabular Trend: 1 hour, NIBP
Trend: 100 items, Arrhythmia Recall: 720 files, Alarm

History: 1000 events

ALARMS

Alarm Items: Vital sign, arrhythmia, technical

Alarm Levels: Crisis, warning, advisory

Alarm Pause/
Silence:

ECG MEASUREMENT

Leads:	I, II, III, AVR, AVL, AVF, 2 from V1-V6
Input Range:	≥±5 mV
DC Offset Tolerance:	≥ ±500 mV
Input Impedance:	$\geq 5~\text{M}\Omega$ (at 10 Hz), $\geq 2.5~\text{M}\Omega$ (at 0.67 to 40 Hz
QRS Detection:	Amplitude ≥ 0.5 mV
HR Counting Range:	0, 15 to 300 beats/min
HR Counting Accuracy:	± 2 beats/min

RESPIRATION MEASUREMENT

 Measuring Method:
 Impedance method

 Measuring Lead:
 R-F

 Impedance Range:
 220 to 2,000Ω

 Counting Range:
 0 to 150 breaths/min

 Measuring Accuracy:
 ± 2 beats/min

SPO₂ MEASUREMENT

 Display Range:
 0 to 100%

 Declared Range:
 70 to 100%

 Accuracy:
 ± 3% SpO₂ (70% SpO₂ ≤ SpO₂ < 80% SpO₂)</td>

 ±2% SpO₂ (80% SpO₂ ≤ SpO₂ ≤ 100% SpO₂)

 Less than 70% is not specified

PULSE RATE MEASUREMENT

 Measuring Range:
 30 to 300 beats/min

 Accuracy:
 ±3% ± 1 beat/min

NIBP MEASUREMENT

 Measuring Method:
 Oscillometric

 Measuring Modes:
 Manual, STAT, periodic

 Intended Patient Type:
 Adult, Child

 Measuring Range:
 0 to 300 mmHg

 Measuring Accuracy:
 ±3 mmHg

 Maximum Pressure:
 300 mmHg

 Cuff Time Limiter:
 ≤ 160 s

 Displayed Items:
 Systolic, diastolic, mean

TRANSMITTER

FCC Regulation: FCC requirement 15.407(c)

Wireless IEEE 802.11 a/b/g/n, OKC
Communication:* *Requires wireless gateway

Water Resistance: IPX1

DIMENSIONS AND WEIGHT

Dimension: 5.4" W x 3.9" H x 1.7" D (excluding protruding parts)

Weight: 13.2 oz (excluding batteries)

POWER REQUIREMENTS

Battery Type: Three AA (R6) alkaline or NiMH batteries

Operating Time:*

Monitor Mode OFF: 24 hours for Alkaline and NiMH, Monitor Mode ON: 3 hours for Alkaline and 7 hours for NiMH

*Operation time may vary depending on radio wave conditions, and is subject to change. Please see the operator's manual for a complete listing of the measurement conditions for the above specification.

OPERATING ENVIRONMENT

 Temperature:
 +5 to +40°C (+41 to +104°F)

 Humidity:
 15 to 85% RH

 Atmospheric Pressure:
 70 to 106 kPA

For more information, please contact us at 1-800-325-0283 or visit us.nihonkohden.com

¹Onodera J, Kotake Y et al. Validation of inflationary non-invasive blood pressure monitoring in adult surgical patients. J Anesth. 2011; 25: 127-30.





^{*}The wearable vital sign telemeter can display review data saved on the telemeter and 24 hours of data (except PI) saved on the central monitor. The alarm history saved on the central monitor is not displayed on the wearable vital sign telemeter.