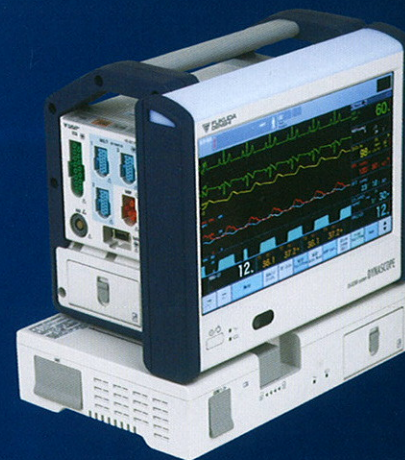


DYNASCOPE

Bedside monitor

DS-8200 System

Compact and lightweight



10.2 inch TFT Wide Screen Display

Multi display configurations and user configurable short keys. Up to 14 waveforms can be displayed on the wide screen.

Data transfer with the HS-8000 module

A single module (HS-8000) can be used on any DS-8500 or DS-8200 system.

12 lead ECG analysis (optional)

Up to 10 analyses can be displayed stored and printed.



Full Disclosure Function

48 hours Full Disclosure of up to 6 waveforms.



Cartridge type battery

Up to 2 removable batteries for maximum flexibility.



Printer Unit

By connecting the HR-800 (printer unit) to the base station, up to 3 waveforms can be printed. Since it is external, the layout can be made according to the needs.

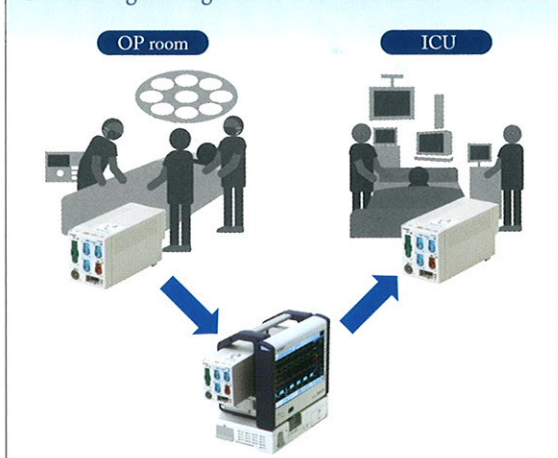
Telemeter module

The telemetry module (HLX-801) can be connected to the monitor and allows to send data to the central monitor (wireless).

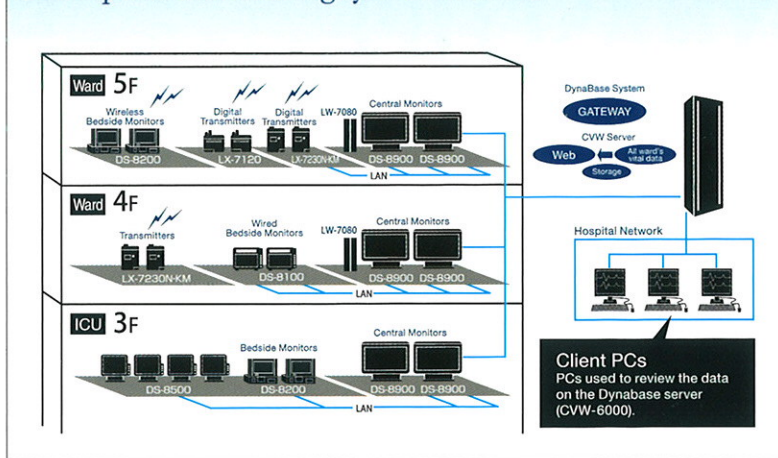
*The HLX-801 can be inserted inside the monitor (built-in style).

System's structure

[Transferring/Moving data with the HS-8312N·M module.]



[Example of a monitoring system network]



Specification 《DS-8200 integrated monitor》

1. Configuration

Main unit configuration	DS-8200	System	
	HSB-80	HS Adapter	
	LC-8210	Display unit	
	BS-8210	Base unit	
Measurement unit	HS-8312N HS-8312M	Super module	ECG, SpO ₂ , NIBP, Multi-connector (IBP, TEMP, CO)×3, Analog output (ECG, IBP×2)
Printer unit	HR-800		3ch printer
Gas unit (optional)	HPD-810 HCP-810		Gas unit I/F (mainstream) CO ₂ gas unit (sidestream)
Others (optional)	HLX-801		Telemeter module
Dimension and weight	HSB-80		230(W)×210(H)×135(D)mm/ 1.5kg
	LC-8210		270(W)×210(H)×66(D)mm/ 1.8kg
	BS-8210		270(W)×92(H)×180(D)mm/ 2.5kg
	HR-800		87(W)×108.5(H)×100(D)mm/ 0.44kg

2. Specification

Displayed waveforms	ECG, RESP, SpO ₂ , Pulse, IBP and EtCO ₂
Displayed parameters	Basic configuration HR, ST and arrhythmia SpO ₂ and PR NIBP (SYS, DIA, MAP, Cuff pressure and PR) Multi-connector: (IBP, TEMP, CO)×3 IBP Maximum 6 channels TEMP Maximum 6 channels CO (Cardiac Output) 1 channel EtCO ₂ (optional, mainstream or sidestream) PI (HS-8312M only) SpMet, SpCO, SpHb, PVI (HS-8312M only, optional)
Display	10.2 inch wide colour LCD
Resolution	1024×600dot (WSVGA)
Number of displayed waveforms	Up to 14 waveforms
Waveform displayed duration	Maximum 8.9 sec (with 25mm/s and enlarge display)
Sweep speed	Circulatory 6.25, 12.5, 25, 50 mm/s Respiratory 6.25, 12.5, 25 mm/s
Printing method	Thermal printing method
Printing paper width	50mm
Waveforms/recording	Maximum 3 waveforms per recording
Printing sweep speed	50/25mm/s
AC power	AC100V~240V, 50/60Hz
Battery usage time	2.5 hours (NIBP set to 15min interval, no option unit used) 5 hours (when 2 batteries installed)
Battery charging time	Quick charging time 3.5 hours approximately (without operation) and 8 hours (with operation)

3. Review Functions

Trend	24hours	Number (s) of Recall	Up to 100
Table	24hours	Full Disclosure	48hours (Max.6waveforms)
12 Lead analysis	Up to 10 analyses	Alarm History (Optional)	Up to 1599

System configuration parts



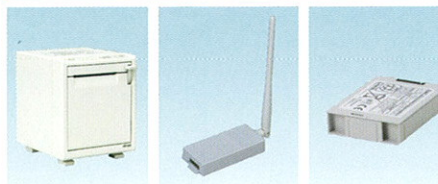
HS-8312N/M

LC-8210

BS-8210

HSB-80

Optional items



HR-800

HLX-801

BTO-008

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DS-8200 Transport Monitor

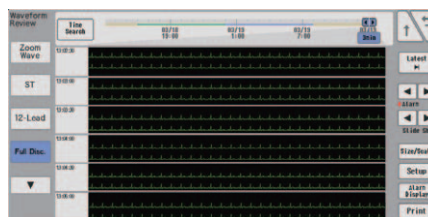


12 lead ECG Analysis



Up to 10 analysis can be displayed and printed.

Full Disclosure Function (*Optional FCF-16GA Required)



48 hours Full Disclosure of up to 6 waveforms.

Cartridge Type Battery



Up to 2 removable batteries for maximum flexibility.

Specification

Dimensions (W)x(H)x(D) (not including the protrusion)	Display Unit LC-8210	10.6" x 8.3" x 2.6"	Weight	Display Unit LC-8210	1.8 kg / 7.0 lbs	
	Base Unit BS-8210	9.1" x 3.6" x 7.1"		Base Unit BS-8210	2.5 kg / 5.5 lbs	
	HS-Adapter HSB-80	9.1" x 8.3" x 5.3"		HS-Adapter HSB-80	1.5 kg / 3.3 lbs	
	HS Module HS-8312N/M	3.3" x 3.9" x 7.9"		HS Module HS-8312N/M	1.2 kg / 2.6 lbs	
Display	10.2" wide TFT color LCD		Resolution	1024 x 600, WSVGA		
Sweep Speed	Circulatory	6.25, 12.5, 25, 50 mm/s	Waveforms	Max. 14		
	Respiratory	6.25, 12.5, 25 mm/s	Waveform Display	Stationary Trace Mode		
Parameters	Waveform	ECG (max 12lead), IBP (max 6ch), SpO2, Pulse, RESP and EtCO2				
	Measurement	HR, ST, VPC, IBP (max 6ch), SpO2, SpCO (opt.), SpMet (opt.), PVI (opt.), RR, PR, NIBP, TEMP (max 6ch), CO2 and SvO2/CCO				
	Arrhythmia	ASYSTOLE, VF, VT, Slow VT, RUN, Tachy, Brady, Bigeminy, Frequent, Couplet, Trigeminy, PAUSE				
Operation	Touch Screen Method, Fixed Keys					
Environmental Condition	Operating Environment	Ambient Temperature	10 to 40 °C			
		Relative Humidity	30 to 85 %			
	Transport/Storage Environment	Ambient Temperature	-10 to 60 °C			
		Relative Humidity	10 to 95 %			
ECG	Range	Adult/Child: 0, 12 to 300 bpm	SpO2	Method	2 Wavelength Pulse Wave	
		Neonate: 0, 30 to 300 bpm		Range	1 to 100 %	
	Accuracy	±3 bpm		Accuracy	±3% (Nellcor™) ±2% (Masimo®)	
	Size	1/4, 1/2, 1, 2 and 4		PR Range	20 to 250 bpm (Nellcor™) 26 to 239 bpm (Masimo®)	
	HR Display Response Time	Adult/Child: 6 sec Neonate: 3 sec		PR Accuracy	±3 bpm	
	Defibrillation Proof Provided					
Temperature	Measurement	Thermistor Method		Respiration	Method	Impedance
	Range	0 to 45 °C			Range	0, 4 to 150 bpm
	Accuracy	±0.2 °C			Accuracy	±3 bpm
	Number of Channels	Max. 6		Invasive Blood Pressure	Range	-50 to 300 mmHg
Method	Oscillometric		Accuracy		±1 mmHg or ±2%	
	Range	Adult: 10 to 280 mmHg	PR Range		Adult: 12 to 300 bpm Neonate: 30 to 300 bpm	
		Child: 10 to 180 mmHg	PR Accuracy		±1 bpm or ±3%	
Neonate: 10 to 130 mmHg		Number of Channels	Max. 6			
NIBP (Non-Invasive Blood Pressure)	Static Pressure Accuracy	±3 mmHg		CO	Method	Thermodilution Method
	PR Range	40 to 240 bpm			Range	0.1 to 20L/min
	PR Accuracy	±2% or ±2 bpm			Accuracy	
	Safety Mechanism	Adult: 300 mmHg or above	EtCO2 (optional)	Method	Mainstream (PHILIPS RESPIRONICS®)	
		Child: 210 mmHg or above		Range	0 to 150 mmHg	
		Neonate: 150 mmHg or above		Accuracy	0 to 40 mmHg: ±2 mmHg	
Printer (optional)	Number of Waveforms	Max. 3		Sidestream (Microstream™)	Range	0 to 99 mmHg
	Printing Type	Thermal		Accuracy	0 to 38 mmHg: ±2 mmHg	
	Printing Speed	50, 25 mm/s		Safety	General Standard	IEC60601-1:1988+A1:1991+A2:1995 IEC60601-1-1: 2000
	Waveform Printed	ECG, RESP, SpO2, IBP, CO2, AWF, AWP, AWV and Alarm Factors			EMC Standard	EN60601-1-2: 2007
Power	Requirements	AC 100 to 240 V, 50/60 Hz		Electrical Shock	Class I	
	Consumption	80 VA		Conformity	CE Marking per 93/42/EEC Directive	
	Battery Operation	5 hours with 2 batteries		RoHS Compliant		
Useable Life	6 years according to self certification					



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