SINGLE CHANNEL PALM ECG: CARDIO-A AND CARDIO-B



PALM ECG'S are designed for general practitioners or for domestic users who suffer from cardiovascular diseases such as hypertension, coronary disorders, giving the possibility of a daily ECG test. Records can be saved and used as a reference for clinical applications. 4 measurement modes: palm, leg, chest or lead wire traditional

measurement. Main features:

- small, portable and easy to use
- 30 second ECG waveform and measurement results
- 600 (CARDIO-A) or 1200 (CARDIO-B) ECG waveform can be saved
- 5 hours (CARDIO-A) or 10 hours (CARDIO-B) ECG continuous measurement data storage
- analysis and report of 8 types (CARDIO-A) and 17 types (CARDIO-B) of ECG waveform
- USB 2.0 interface with option data cable and ECG viewer software
- traditional measurement with optional ECG cable

CARDIO B with Bluetooth module for wireless data

transmission. Allows to download data on your smartphone or tablet, compatible with Android.

Supplied with multilanguage manual and box (GB, FR, IT, ES).

-			
	GIMA code	PALM ECG	
		CARDIO-A palm ECG	
	33261	CARDIO-B palm ECG - colour displa	y
	33259	CARDIO-B Bluetooth palm ECG+vie	wer software
		ACCESSORIES	
	33265	ECG viewer software+USB 2.0 cable - 1	for 33260, old 33261
	33249	ECG viewer software + USB 2.0 cab	e for new 33261
		since SN: XXS02JL01044 - Jan 2014	
	33248	New ECG 3 pin lead cable - 3 leads	- optional - 2012
		from SN: XXQ00HJ03925 for 33260	
		from SN: XXS02HL01709 for 33261	
	33264	Old ECG banana lead cable - 3 lead	s - optional
		TECHNICAL SPECIFICATIONS	
		CARDIO A	CARDIO B
		dwidth: 0.5 Hz - 40 Hz	1 Hz - 40 Hz
		te measuring range: $30 - 240 \text{ bpm } \pm$	
		light display: 128x64 dot matrix	
	Display		57.6x40 mm
	Power:	2xAAA batte	
	Dimensi	ons 115x58x18 mm	125x70x21.5 mm

CARDIO-C: 3 CHANNEL POCKET ECG



Methods of ECG measurements: direct or with lead wires

Direct on palm

or wrist

With lead wires,

need limb

With lead wires

need chest

electrodes 33364 electrodes 33327

Direct on chest

• 33245 CARDIO-C POCKET ECG 3 channel



106 q

- small size, light-weight and easy to carry
- one-key measurement

Weight

- clear ECG waveform and interpretation of results on colour dot-matrix TFT 3.5" screen

65 q

- up to 19 types of measurement results
- high capacity built-in memory: 24 hours records storage and review for single channel waveform and 8 hours record storage and review for 3-channel waveforms
- quick measurement: by built-in metal electrodes, on palm, chest or leg or by external lead wires (needs optional limb and chest electrodes)
- data management to review or delete data records locally or to upload to PC

Supplied with ECG viewer software, USB cable, power transformer, ECG 4 pins lead wire, 25 disposable electrodes, manual (GB, FR, IT, ES, DE, PT).

Other accessories see at page 277-278.

- 33364 SET OF 4 LIMB CLAMP ELECTRODES (4 COLOURS) adult
- 33327 DISPOSABLE TNT ELECTRODES Ø 55 mm

TECHNICAL SPECIFICATIONS

Heart rate measuring range: 30 bpm ~ 240 bpm Heart rate measuring accuracy: ± 2 bpm or ±2% whichever is greater ECG bandwidth: 0.5 Hz ~ 40 Hz Internal noise level: ≤ 30µVp-p 5.0 mm/mV ±10%

Display scale: Common-mode rejection ratio (CMRR): \geq 60 dB Waveform sweeping speed: 20 mm/s ±10% Input loop current: ≤ 0.1 µA Input impedance: ≥ 5 MΩ

Power Power:

Supply voltage range: Max average working current:

Auto power-off: Low battery indication:

4 AA alkaline batteries

4.4 ~ 6 VDC ≤ 160 mA

can be adjustable between 1-5 mins

4.4 VDC ±0.2 VDC

• 33232 CARDIOPOCKET ECG 3 CHANNELS - with software

12-lead ECG printing ECG waveform with thermal printing system, measuring and diagnosing ECG waveform parameters automatically.

 full-automatic analysis function: auto-analysis and auto diagnosis for routine ECG parameters. It provides measurement results and auto diagnosis conclusion for HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-tc, P Axis, QRS Axis, T Axis, R(V5), S(V1),

R(V5)+ S(V1)
- 2.83" colour LCD screen (resolution 320x240) that operates both with touch screen and keys

high resolution thermal array output system 8 dots/mm (vertical)

TECHNICAL SPECIFICATIONS

0.05-150 Hz (-3 dB - 0.4 dB)

6.25, 12.5, 25, 50 mm/s ±5%

- built-in rechargeable lithium detachable battery can continuously work for 4 hours, print up to 90 minutes and 150 ECG

CMRR: >60 dB, > 100 dB (add filter)

≥50 M Ω

- store up to 100 cases in a SD card (not included)

battery 2,000 mAh

- high-accurate digital filter eliminates baseline drift and distorsion to ECG waveform

AC: 100-240 V, 50/60 Hz - DC 12V rechargeable lithium

Time constant:

IEC class I, type CF defibrillation-proof applied part

Input impedance:

- ECG-Sync software to form a ECG workstation

≤15 µVp-p

25/35 Hz

 32963 THERMAL PAPER - box of 20 rolls • 33233 RECHARGEABLE Li-lon BATTERY

Noise level:

EMG filter:

Frequency response:

Input circuit current:

Recording paper:

Safety standard:

Paper speed:

Input mode:

Patient leakage current: <10 µA

• 33328 ECG CABLE spare

Size: 207x96x62 mm Net weight: 500 g

Integrated thermal

printer

STANDARD ACCESSORIES

Patient cable 1 roll of paper

rechargeable lithium battery

4 limb electrodes 6 chest limb electrodes

user manual (GB, IT, FR) 1 CD software (GB, FR, IT, ES, DE,

TR) and cable for connection to PC

Internal software in

GB, IT, FR

CARDIOPOCKET ECG - 1 CHANNEL

• 33257 CARDIOPOCKET ECG - standard 12 lead ECG - with software

50 mm x 20 m, high speed termal paper

floating and defibrillation protection

Compact and lightweight pocket device with unbeatable features:
- wide graphic display (it allows "live" view of ECG trace and selection of all parameters)
- rechargeable lithium battery operated (80 ECG with full charge)

PC software with interpretation included for storing data into PC (GB/IT)

(operating system: Microsoft Windows 2000/XP/2003/Vista/7)

- multilanguage internal software: GB, IT, DE, FR, ES, TR, CN

- real time continuous records of clear and exact single channel ECG waveform and notes. The notes include mark, sensitivity, chart speed, filter mode, etc - full-touch keyboard control, easy to use. Screen displays, working position, state

of the instrument are clear and easy to be read.

• 33328 ECG CABLE - spare

32963 THERMAL PAPER - box of 20 rolls
 33228 ECG CAE
 33243 RECHARGEABLE LI-Ion BATTERY up to S.N. CD 1212100050
 33244 RECHARGEABLE LI-Ion BATTERY since S.N. CD 130730000-1

TECHNICAL SPECIFICATIONS

AC: 100-240V, 50/60 Hz - DC: 7.4V / 2,000 mAh Power: DC: 9V rechargeable battery

In optimal DC state up to 8 h standby time, up to 4 h continuous print

CMRR: >60 dB, >100 dB (add filter) Noise level: ≤15uVp-p 35 Hz (-3 dB) EMG filter:

Time constant: Sensitivity display: standard sensitivity: 10mm/mV±2%

1/2, 1, 2 (cm/mV), conversion deviation ≤5% Sensitivity setting: Recording system: thermal-array, 8 dots/mm (vertical),

16 dots/mm (horizontal, 50 mm/sec) 32 dots/mm (horizontal, 25 mm/sec)

25 mm/s, 50 mm/s ±5% Paper speed: 50 mm x 20 m, high-speed roll Recording paper:

Safety standard: IEC class I, type CF Input circuit current: ≤50nA

STANDARD ACCESSORIES Patient cable 1 roll of paper 1 rechargeable lithium battery

4 limb electrodes

6 chest limb electrodes

1 user manual (GB, IT, FR)

1 CD software and cable for

PM10 PALM ECG WITH SOFTWARE AND BLUETOOTH Features:

• 33246 PM10 PALM ECG - with software and Bluetooth

PM10 is a homecare device to check ECG parameters. It can be used as a reference for patient to take further medical treatment and reference for doctor to diagnose. It can help to early prevent from cardiovascular diseases and reduce risks. Intelligent design, it achieves remote health management through mobile application; it can automatically start measurement, store ECG, upload data, download health results. Suitable for patients with chronic diseases, especially coronary heart disease, diabetes, hypertension, myocarditis, obesity, chest pain, palpitations and dyspnea.

4 MEASUREMENT MODES



Limb leads I

Chest leads V

Limb leads L



- 1.77" colour TFT-LCD - quick ECG test with a simple touch. User friendly
- accur

 áte conclusion can be obtained immediately after measuring
- continuously record for up to 500 cases with built-in rechargeable lithium battery in full charge
- Bluetooth transmission
- ECG data can be saved to cloud Platform
- permanently, easy to check and analyze historical data can be printed at any time, easy to diagnose Size: 100x45xh 15 mm

Supplied with a carrying bag, a multilanguage manual (GB, FR, IT, ES, DE, PT) and a CD software to visualize data on PC

Weight: about 60g



Weight 800 g

ble battery

Ćompact:

60x35 mm

wide display

only 190 mm (size: 190x90x40

with rechargea-

DIGITAL SINGLE, 3 OR 3/6 CHANNEL ECG

- 33220 SINGLE CHANNEL ECG 100G
- large LCD display waveform and data
- high-resolution thermal printing array system frequency response is as high as 150 Hz
- capable of printing continuously on channel trace and annotations including lead mark and parameter such as sensitivity, paper speed and filter operation status

high resolution digital filter inhibits baseline drift without

affecting ECG waveform

- floating input circuit meets IEC safety standard
- rechargeable battery supporting more than 50 patient examinations
- internal software: GB, IT, DE, TR, RU, CN
- manual: GB, IT, ES
 33225 RECHARGEABLE BATTERY spare
- 32968 PAPER ROLL 50 mm x 20 m box of 20
- 33328 ECG CABLE 10 leads spare



- 33222 6 CHANNEL ECG 600G monitor up to 12 channels
- 7" TFT, colour LCD touch screen
- 12 leads simultaneous display
- digital isolation technology and signal processing solution, digital filter
- patient management, name, age and id, detail analysis report
- built-in lithium rechargeable battery
- thermal printing system provides more than 10 printing modes
- can print 90 minutes and print out 150 ECG continually
- ECG-Sync software, USB connection to PC and built-in memory can store more than 1000 cases
- auto-measurement, auto-analysis and auto-interpretation
- internal software: GB, FR, IT, ES, DE, TR, PL, PT, SI, RU, KZ, CN
- PC software: GB. Manual: GB, IT, FR
- 33226 RECHARGEABLE BATTERY spare
- 32970 PAPER ROLL 110 mm x 20 m box of 10
- 33328 ECG CABLE 10 leads spare



33220

- 3.5" TFT colour LCD screen
- 12 leads simultaneous display
- thermal printing system
- AC and DC power supply
- high capacity built-in lithium rechargeable battery
- battery power supports up to 150 ECG continuous records
- built-in Database
- built-in memory can store more than 1000 cases
- digital signal processor for filter
- auto-measurement, auto-analysis, auto-interpretations
- ECG-Sync software, USB connection to PC
- internal software: GB, FR, IT, ES, DE, TR, PL, PT, SI, YU, RU, KZ, CN
- PC software: GB
- manual: GB, IT, ES, FR
- 33226 RECHARGEABLE BATTERY spare
- 32969 PAPER ROLL 80 mm x 20 m box of 10

• 33328 ECG CABLE - 10 leads - spare USB connection allows real-time

transmission to PC, remote data analysis and diagnosis, management and printing through the PC



		TECHNICAL SPECIFICA	ATIONS					
		ECG 100G	ECG 300G	ECG 600G				
	Safety Type	Class I, type CF applie	ed part, which has defibrillation	on-proof applied part				
	Lead		Standard 12 leads					
	Input way	Floa	iting and defibrillation protec	tion				
	Patient leak current		<10µA					
ECG	Sampling rate	800 Hz	1,000 Hz	1,000 Hz				
instrument	A/D conversion		12bit					
Input	Frequency response		0.05Hz~150Hz (-3dB, + 0.4dB)					
	Time constant	≥ 3.2s						
	CMRR	>60dB, >100dB(Add filter)						
	Enduring polarization voltage	±500mV						
	Noise level	<15µVp-p						
Dispose	EMG interference filter 35Hz (-3dB)		25Hz/35Hz (-3dB)					
Wave Data	AC filter	50Hz/60Hz (-20dB)						
	Recording way	Thermal printing system Thermal printing system (32spots/mm)						
	Recording paper	50mm(W)×20m(L)	80mm(W)×20m(L)	110mm(W)×20m(L)				
	Sensitivity	5, 10, 20mm/mV	5, 10, 20mm/mV 2.5, 5, 10, 20, 40 mm/mV					
Waveform output		Auto-record: auto leads Auto-record: 25mm/s, 50mm/s						
	Paper speed	Rhythm record: 25 mm/s, 50 mm/s						
		Manual-record: 25 mm/s,	Manual-record: 5, 6.25, 10), 12.5, 25, 50 (only 33221),				
		50 mm/s	100 mm/s (only 33222)				
Power	AC		110-220V, 50/60 Hz					
supply	DC - Lithium battery	7.4V, 2000 mAh		i00 mAh				
Fuse		2 pcs ϕ 5×20mm A	AC time lag; T250mA/250V(Po	wer Supply:220V)				
Form	Size		315 x 215 x 77 mm					
	Net Weight	1.5 kg	1.6 kg	1.7 kg				



STANDARD ACCESSORIES

ECG cable - 1 set Limb electrode clamp - 1 set chest electrodes - 1 set Ground wire Power connection Paper roll USB connection and PC software (only 33221 and 33222)

• 33228 CARRYING BAG 39x29x14 cm



3 AND 6-12 CHANNEL DIGITAL ECG WITH HIGH RESOLUTION MONITOR



- 33334 CARDIOGIMA 3M 1-3 ch. with interpretation 33350 CARDIOGIMA 6M 3-6-12 ch. with interpretation (monitor 3-6 channels, printer 3-6-12 channels)
- LCD monitor in Standard or Cabrera format with base line setting
- High resolution thermal printer (8 dots/mm): hardcopy 1-3 or 3-6-12 channels real time with possibility to print a millimetric grid
- Manual or automatic recording
- Image freeze with memory scrolling for reviewing and hard copy of acquired signals (Memory 10 seconds for each lead)
- Digital filters for elimination of muscle tremors, power line and base line noises
- Pacemaker detection
- Power supply by built-in high capacity Ni-Cd batteries and fast charging time

- Very simple operation by pre-defined fast keys and menus
- Based on a risk processor for a full digital signal processing Made in Italy. TANDADD ACCESSODIES 2M AND 6M

	STANDARD ACCESS	ONIES SIVI AIND GIVI
Patient cab	ole	6 chest limb electrodes
4 limb elect	rodes	1 roll of paper
Manual (En	glish, Italian)	1 bottle of gel
Rapid guide	e: English, Spanish, Italian	Battery

GIMA code	CARDIOGIMA ACCESSORIES	Minimum order
32996 32953	Transport bag (see at page 60) Thermal paper 58 mm x 25 m (Cardiogima 3M) Thermal paper 112mm x 23m (Cardiogima 6M) ECG cable 10 leads - spare	

TECHNICAL SPECIFICATIONS CARDIOGIMA 3M AND 6M

Power supply: internal rechargeable Ni-Cd batteries AC/DC Adapter: 100-240V, 50-60 Hz; 200mA

Battery autonomy: 2.5 hours Applied part: CF type Input impedance: > 100 Mohm Frequency response: 0.05: 145 Hz

Cmrr: > 91 dB (33334), Cmrr: > 100 dB (33350) Time constant: > 3.2 s

Acquisition: 12 bit 800 samples/sec/channel-isochrome

Leads: 12 standard or Cabrera

Sensitivity: 5mm/mV; 10mm/mV; 20mm/mV ±5% Scrolling speed: 5mm/s; 10mm/s; 25mm/s; 50mm/s

Signal memory: 10s for each lead

Printer: thermal printer 8 dots/mm, paper 58 mm (3M) 110 mm (6M). Filters: muscles tremors 35Hz digital; power line interferences 50-60Hz

digital; high pass 0,5Hz digital Defibrillation protection: internal

Display/Hardcopy: 1/3 channel (3M) 3/6/12 channel (6M) Dimensions: 240x160x65 mm. Weight: 1.5 kg. Made in Italy

CARDIOGIMA 1M - 1/3 CHANNEL ECG WITH PARAMETERS CALCULATION



- 33329 CARDIOGIMA 1 M 1-3 channel ECG with monitor A real portable ECG with small dimension and light weight (1 kg), with LCD monitor 128x64 pixel, high resolution thermal printer (8 dots /mm hardcopy, 1 channel real time) and parameters calculation. With manual or automatic recording, memory 10 seconds for each lead. Includes digital filters for elimination of muscles tremors, power line and base line noises. Based on a risk processor for a fully digital signal processing. Made in Italy.
- 32996 THERMAL PAPER 58 mm x 25 m box of 20
- 33328 ECG CABLE 10 leads spare

STANDARD ACCESSORIES

1 roll of paper Patient cable 1 bottle of gel 4 limb electrodes Manual (English, Italian) 6 chest limb electrodes Rapid guide: English, French, Spanish, Italian **Battery**

TECHNICAL SPECIFICATIONS

Power supply: internal rechargeable Ni-Mh batteries AC/DC Adapter: 100-240V, 50-60 Hz; 200mA Battery autonomy: 3 hours Applied part: CF type Input impedance: > 100 Mohm Frequency response: 0.05: 145 Hz

Cmrr: > 100 dB time constant: > 3.2 s

Acquisition: 12 bit 800 samples/sec/channel Leads: 12 standard or Cabrera Sensitivity: 5mm/mV; 10mm/mV; 20mm/mV ±5% Scrolling speed: 5mm/s; 10mm/s; 25mm/s; 50mm/s Signal memory: 10 sec for each lead Printer: thermal printer 8 dots/mm, paper 58 mm. Defibrillation protection: internal

Filters: muscles tremors 35Hz digital; power line interferences 50-60Hz digital; high pass 0.5Hz digital Dimensions: 190x120x60 mm. Weight: 1 kg. Conformity standards: 93/42/CEE; EN60601-1; EN60601-1-2; IEC601-2-25 Made in Italy



Lead:

Filter:

Acquisition mode:

EDAN PORTABLE ECG - 1 and 3 channel

- foldable LCD screen, vivid waveform display
- built-in high resolution thermal printer
- built-in rechargeable Li-ion battery, AC/DC supply
- complete digital filter, avoid baseline drift, AC, EMG interfere
- automatic baseline adjustment
- auto/manual operation selectable
- lead-off detection and alarm

SE-3 Three channel colour ECG also features

- interpretation tested by CSE/AHA/MIT database
- 12 Lead simultaneous acquisition
- automatic ECG parameters measurement and analysis auto, manual, rhythm off work mode
- support barcode scanner to simplify patient information input
- LAN/RS232/USB connection to PC
- 12 leads grid printing on normal A4 paper by external printer ECG Viewer Software: PC based ECG data management software
- compatible with Windows XP, WIN 7, Vista (32 bit, 64 bit) multi format reports XML/SCP/DICOM/PDF/JPG/BMP/TIFF/PNG
- support bi-directional communication with ECG device

GIMA code	EDAN ECG AND ACCESSORIES
33330 33333	Edan SE-1 Single Channel ECG Edan SE-3 colour Three Channel ECG - interpretative
33336 32963 32964 33328 33318	ECG-Viewer Software (GB, FR, IT, DE, PL, RU, ES, TÜ) for 33333 Thermal paper - roll 50mm x 25m for 33330 and 33305 Thermal paper - roll 80mm x 25m for 33332/3 and 33306 ECG cable - spare Rechargeable Lithium battery 2500 mAh - spare Transport bag - see page 60

TECHNICAL SPECIFICATIONS

33330 33333

Standard 12 leads One lead 12 leads simultaneously 2.5, 5, 10, 20 mm/mV

Sensitivity: Input impedance:

> 50 MΩ (10 Hz)

EMG Filter 35 Hz (-3 dB) EMG Filter 25/35/45 Hz off

AC/DFT Filter 50 Hz/60Hz DFT Filter 0.05/0.15/0.25/0.32/0.5/0.67 Hz Low pass filter 150/100/75 Hz (-20 dB) AC Filter on/off

Recording mode: Auto/Manual Auto/Manual/Rhythm/USBPRT Any lead selectable Rhythm lead: Safety standard: IEC I/CF AC: 100-115 V, 220-240 V, 50/60 Hz Power supply:

Rechargeable Li-ion battery: voltage 14.8 V More than 6.5 hours continuous operation with battery supply 500 ECG's Data storage:

Thermal paper: rolled 80 mm x 20 m folded 80x70 mm x 200 pages 5mm/s, 6.25 mms 10 mm/s, 25 mm/s, 50 mm/s (± 3%) Paper speed:

12.5 mm/s, 25 mm/s, 50 mm/s (±3 %) Dimension: 300x260x75 mm Weight: 2.3 kg (with battery) 2.5 kg (without battery) Display: 192x64 pixel LCD Selectable display language GB, IT, FR, ES, 320x240 pixels LCD (colour screen) GB, IT, FR, ES, RU, PL, CZ,

PL, RU, TR, UA RO, DE, TR, HR, UA RS 232 Ethernet, RS232, USB Barcode scanner support: yes Report formats: PDF, Dicom, SCP, XML

STANDARD ACCESSORIES

1 roll of paper 4 limb electrodes Patient cable Rechargeable battery 6 chest limb electrodes 1 bottle of gel Manual: GB, IT. On request: FR, ES, PT, TR (SE-1 and SE-3), DE, RU (SE-3 only)

MINDRAY BENEHEART R3 ELECTROCARDIOGRAPH

• 33301 MINDRAY BENEHEART R3 ELECTROCARDIOGRAPH 3 channels

Lightweight portable cardiograph for resting ECG diagnosis.

Reliable analysis - Glasgow algorithm

Utilizes the University of Glasgow ECG analysis algorithm, one of the world-leading resting ECG interpretations.

Great Portability - only 1.2 kg

Weighs only 1.2 kg with battery, easy to carry.

5" clear colour display

Offers the highest resolution in industry, enabling clinicians to observe real-time waveforms accurately. **Convenient operations**

ECG recording is automatically unfolded on the writing pad at the top of the unit for notes or signature.

Unique recorder - Z-folded or rolling paper

Compatible with both rolling paper and Z-fold paper. Easily switchable without dismantling the pressure lever.

• 33014 ROLL THERMAL PAPER - 80 mm x 20 m - box of 10 33016 Z-FOLD THERMAL PAPER - 80x70 mm x 200 sheet - box of 25

The Glasgow algorithm is the first to be based on specific variables, including age, gender, race, medication, and class in order to maximize the accuracy of the ECG interpretation. On the report, a headline may highlight one or several "critical value warnings" to alert medical attendants of findings that need immediate attention



STANDARD ACCESSORIES
Cable with banana plugs, IEC 1 roll paper Limb clamp set of 4 Rechargeable battery User manual in: GB, FR, DE, HU, IT, PL, ES, TR Chest bulb set of 6 Glasgow algorithm (available in 13 languages as internal software)

TECHNICAL SPECIFICATIONS
ECG amplifier: DC-coupled

Power 100 to 240 VAC ± 10% 60 VA rechargeable Lithium ion battery Battery-type: 11.1 V typical, 2,500 mAh 6 hours of continuous operation without recording or 500 ECGs in 2.5 x 4 format at 25 mm/s and 10 mm/mV - capacity:

- charge time: 3.5 hours with power off Processing ECG analysis 500 samples/second (sps) Digital Pacer detection

1,000 samples/second/channel 16,000 samples/second/channel Acquisition mode: Pre-acquisition or post-acquisition provide 10 seconds of instantaneous ECG acquisition Input impedance: Patient leakage: Heart rate meter:

Sensitivity/gain: Colour display Resolution: Display data:

DC-coupled 50 MD at 10 Hz, defib protected < 10 µA

30 to 300 BPM ± 10% or ± 5 BPM, whichever is greater 5, 10, 20 mm/mV, Auto TFT LCD with LED graphics backlit 800x400

Patient ID, gender, age, heart rate, clock, battery power indicator, waveforms, lead labels, speed, gain, filter settings, warning messages, information messages, network status and USB

Thermal printer: Software

Dot array/Width 80 mm/speed 5, 12.5, 25, 50 mm/s

Resting ECG mode:

Records and prints 12-lead resting ECG with 10-second duration Patient information: Patient ID, second duration
Patient In, secondary ID, age, date of birth, gender, race, medication class and V3 electrode placement
Internal storage: 800 ECGs in internal memory ECG Storage format: PDF and Mindray storage format internal software: GB, FR, IT, ES, DE, PL, PT, TR, RU, HU, RO, CZ, CN
Report formats
Size/Weight: 250x194xh 56 mm/1.2 kg including battery

including battery

MULTI CHANNEL ECG WITH INTERPRETATION ON PAPER

ECG Leads:



• 33354 CARDIOGIMA 12 ECG - 3-6-12 channel

Cost effective 12 channel resting ECG recorder without performance compromise. The simultaneous record of 12 channels has a high diagnostic value - all the 12 channels are shown at the same time. A4 size paper, one body type. Main Features:

- 12 leads simultaneous 10-second resting ECG with interpretation in only 60 seconds multilanguage. Internal software+print in GB, FR, IT, DE, RU, TR, CN.

- wide paper printing (A4 size thermal paper, fax paper is OK)
- combined output of all relevant curves, patient data, date, time and instrument settings

- PC Connections

Connection to PC with RS 232 port or LAN to submit recorded ECG signal to other specialist for evaluation (only a modem is needed)

- ECG filing system

A fully configured PC-based software enables to record, print, change the settings of ECG's and save them in JPG format, which ensure compatibility with most EMR package.

- rechargeable batteries (optional) with 1 hour capacity in normal use (about 100 ECG printouts)

TECHNICAL SPECIFICATIONS

3-6-12 channel illustration of ECG signals in continuous recording or 10 sec. recording with interpretation.

296x305.5x92.5 mm Dimension: Approx 3 kg 3, 6, 12 channel and 1 channel (60 sec.) Recording channel:

Sensitivity: 2.5, 5, 10, 20, auto (I~aVF: 10, W1~V6: 5) mm/mV

Printing speed: 12,5; 25; 50 mm/s

AC (50/60 Hz, -20 dB or better), Muscle (25~35 Hz, -3 dB or better) Filters:

Low pass filter (off, 40 Hz, 100 Hz, 150 Hz) 2x16 character LCD display

Display: LCD display: LED indicator: Sensitivity, speed filter status, HR, Printing form, rhythm lead

Signal quality, power source, battery

Membrane keyboard, alphanumeric and symbol available Kevboard:

Patient data: ID, name, age, sex, height, weight
Basic measurement: Heart rate, PR, QRS, QT/QTc, P-R-T axis
Recorder: Thermal print head, thermal paper roll

Report papers: A4: 215X297 mm (8.5"x11.7") Letter: 215x280 mm (8.5"x11")

vertical: 8 dots/mm, horizontal: 16 dots/mm Internal noise: 20 µV (p-p) max Resolution:

Electrical: Input circuit: floating input Isolated and defibrillation protected

DC offset voltage: ≥ ± 300 mV Patient leakage current: < 10µA Frequency response 0,05~150 Hz

Power supply: AC or built-in battery (options) Power: Power requirement: 100-240 Vac, 50/60 Hz, 1.0-0.5 A

Power consumption: 60 W max

Battery capacity: 1 hour of normal use (approx. 100 automatic ECG printouts)

Communication: PC Connection with RS-232 interface and lan

Safety: Class I. Type BF

CE, FDA, KFDA, CFDA, NCC Conformity Made in Korea

STANDARD ACCESSORIES

1 PC software (GB/IT) 1 ECG gel tube (250 ml) 1 Recording paper roll

1 LAN cable 1 Patient cable - 10 leads

4 ECG clip-on electrodes 6 Chest electrodes,

suction for adult 1 Power cable

GIMA

code

29534

32950

Auto record

1 Operation manual (GB/IT)



The state of the s	_
CARDIOGIMA 12 ACCESSORIES	33354
Rechargeable battery - for 33354/33355/33357 Thermal paper A4 - for 33354-5-7 - box of 5	+ 29519

Thermal paper A4 - for 33354-5-7 - box of ECG cable for 33354-5-7 33328

29519 Trolley for 33354-5-7

DIGITAL 12 CHANNEL COLOUR ECG WITH WI-FI



33223 12 CHANNEL ECG 1200G with WI-FI

- 8" TFT display, 800x600 dots high resolution colour LED backlight

- simultaneous 12 leads acquisition and display

- digital signal technique, AC filter, baseline filter, EMG filter

- auto-analysis and auto-interpretation

- Multi-mode display and printing, such as 12, 6+1 (rhythm), 6, rhythm 12, rhythm 10, rhythm 8, rhythm 6. Manual, Freeze etc

0.5 built-in lithium rechargeable battery

 2 USB and LAN Socket for uploading data to PC - built-in flash memory. Stores more than 1,000 files Multi-language internal software: GB, FR, IT, ES, PT, PL, SI, TR, RU, KZ, CN.

• 33227 RECHARGEABLE BATTERY - spare

• 32967 PAPER ROLL 210 mm x 30 m

• 33328 ECG CABLE - 10 leads - spare

TECHNICAL SPECIFICATIONS Floating and defibrillation protection Standard 12 leads Input way Lead

Patient leak current ≥ 50 MΩ

Input impedance Frequency response 0.05 - 150 Hz (-3 - + 0,4 dB) ≥ 3.2 s >60 dB, > 100 dB (adding filter) Time constant

CMRR EMG interference filter

25/35 Hz (-3 dB) 210 mm x 30 m high-speed Thermal paper Paper speed

Auto and rhythm record: 25, 50 mm/s, ±5% Manual record: 5, 6.25, 10, 12.5, 25, 50 mm/s, ±5% 2.5, 5, 10, 20, 40 mm/mV, ±5%. Sensitivity selections

Standard sensitivity is 10 mm/mV ±0.2 mm/mV. Record setup according to auto record format and mode, automatically changing leads, measuring and analyzing. Record setup according to rhythm record format Rhythm record and mode, automatically measuring and analyzing. Record setup according to manual record format, Manual record

Measurement parameters HR, P-R interval, P Duration, QRS Duration, T Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1)

Class I CF defibrillation and pacing protection Product safety type Size

334x320x85 mm AC: 100-240 V, 50/60 Hz Power

DC:14.8 V, 3700mAh rechargeable lithium battery

STANDARD ACCESSORIES

1 ECG cable 1 set limb electrode clamp 1 set chest electrodes **USB** connection

1 ground wire 1 paper roll Power connection

Rechargeable battery Software (same languages as internal software) Manual: GB, FR, IT



CARDIO 7: 12 CHANNEL RESTING ECG WITH TOUCH SCREEN

SOFTWARE EKG VIEW PLUS for data storage on PC

33357

Patient data:

One touch operation for analyzing,

storing and printing within 3 seconds



Optional Long term ECG recording Touch screen operation full spirometer and automatic arrhythmia alphanumeric keyboard support function

• 33357 ECG CARDIO 7: 12 CHANNEL ECG WITH TOUCH SCREEN

- 12 channel interpretive ECG for adult, pediatric and neonatal use over 130 kinds of interpretation results based on advanced Minnesota code, HRV (Hearth Rate Variability analysis)

- memory for up to 200 patients

- real-time preview monitor USB - PC compatible through LAN or Wi-Fi

function - multi-language selectable software (GB, RU, FR, DE, IT, CN, ES, TU,

PL, RU, PT)

lead fault message

pace maker detectionautomatic arrhythmia detection

- 3, 5, 10 minutes long term recording

- grid function allows you to use low cost plain fax paper - wide and clear colour 7" TFT LCD (800x480)

touch screen for easy operation

full disclosure function

• 32950 THERMAL PAPER A4 - box of 5 rolls

• 29534 RECHARGEABLE Ni-MH 12 V BATTERY up to

S.N. T7xxxxxxx - optional

• 29536 RECHARGEABLE Li-Ion BATTERY since S.N. T8xxxxxxx - optional

29519 TROLLEY

33328 ECG CABLE

STANDARD ACCESSORIES

Vertical: 8 dot/mm

Patient cable - 10 leads 1 paper roll 4 limb electrodes LAN cable 1 bottle of ECG cream (70 g) 6 chest limb electrodes EKG View Plus (GB, IT) 1 power cable MFER, DICOM manual (GB, IT)

TECHNICAL SPECIFICATIONS

/arious stan-

dard formats:

IPG PDF XMI

ECG leads: 10 lead, 12 channel simultaneous ECG and acquisition Dimension: 300(W) x 299(H) x 123(D)mm, approx. 3.5 kg Recording channel: 3 channels + 1 rhythm, 3 channels + 3 rhythm, 6 channels + 1 rhythm, 12 channels, 60 seconds

Rotary key /

access to all menus

1 channel, 3, 5, 10 minutes 1 channel and beat report 2.5, 5, 10, 20, auto (I~aVF: 10, V1~V6: 5) mm/mV

Sensitivity: Printing speed: 5, 12.5, 25, 50, 100 mm/s Sampling rate: 2,000 samples/sec

AC (50/60 Hz, -20 dB or better) Filters:

Muscle (25~35 Hz, -3dB or better)

Base line drift (0.05, 0.1, 0.2 Hz, -3dB or better) Low pass filter: off, 40 Hz, 100 Hz, 150 Hz 7" color TFT LCD display (800x480), 12 channels

Display: preview ECG wave

Monitor display: ID, date, sensitivity, speed, filter, form, rhythm lead Touch screen (alphanumeric and symbol available), User interface:

Keyboard, rotary push-knob (pop-up menu) ID, name, age, sex, height, weight, smoke, race Basic measurement: Heart rate, PR int, QRS dur, QT/QTc, P-R-T axis

Thermal print head, roll paper Recorder:

A4 report paper: 210x300 mm (8.5"x11")

Resolution:

Horizontal: 16 dot/mm Flectrical: Internal noise: 20 µV (p-p) max

Input circuit: floating input Input impedance: ≥50 MΩ Input voltage range: ≥ ±5 mV Common mode rejection: > 105 dB DC offset voltage: ≥ ±400 mV Time constant: 3.2 sec

Patient leakage current: < 10 μA Frequency response: 0.05 ~150 Hz Isolated and defibrillation protected

Signal quality control: Disconnected lead detection

Pacemaker pulse detection

ECG data storage: storage for 200 ECGs (Internal on flash memory) Power:

AC 100~240 VAC, 50/60 Hz or battery (option)

2.0~1.0 A, 60 VA max

Battery (Li-Ion): 4 hours of normal use (approx.200 ECG printouts)

Communication: PC connection with LAN D2 Wi-Fi

Class I, Type CF, CE, CSA, FDA, KFDA, CFDA, CCC Safety conformity:

SPIROMETER MODULE FOR CARDIO 7

• 33356 SPIROMETER MODULE - for code 33357

It transforms CARDIOGIMA 7 in a 2 in 1 system: ECG-SPIROMETER.

Spirometry measuring values:

FVC: FEV 1.0, FEV 1/FVC, FEV 0.2-1.2L, FIVC, FEV 25-75, FEV 75-85%, PEF, FEF 200-1200 ml, FEF 25%, FEF 50%, FEF 75%, PIF, FET 100%, FIVC.

SVC: SVC, ERV, IRV, TV,EC, IC,

MVV: TV, MVV, FB

Pre and post bronchodilator comparison. Presentation: flow volume loop, flow time plot, measurement values table. Complies with ATS standard.

• 33362 DISPOSABLE MOUTHPIECES - box of 100 pcs.

ECG CABLE COMPATIBLE WITH MOST ECG BRANDS

• 33328 ECG cable - 10 leads

Long lasting, individually tested cable compati- EDAN: Smart SE-1, SE-3 ble with the following ECG machines: **BIONET:** Cardiocare, Cardiotouch

CARDIOLINE: E1, E1R, E3, Delta 300, Delta 360, C3.

CARDIETTE (Elettronica Trentina): Autoruler 12/1, Autoruler 12/3, Excel 103, Excel 106, Astron Comp 1, Astron Comp 3, Astron Comp 6, Start 100 P, Start 100 H, Start 200, Start 200HV, AR600, AR 600 ADV,

AR1200, AR1200ADV. CARDIORAPID CAMINA: K111, K112, K33, K36, K300 M, K300 P, K600 P, K600 D, K130 B, K 130 D. AT/10, CS6, CS12, CS100, CV6, P80.

CONTEC: 100G, 300G, 600G, 1,200G

ESAOTE: P80, P8000

GIMA: CARDIOGIMA 1M, 3M, 6M, 12, 12M HP: Pagewriter 1513, 154B/C, 1514D, 1515A/B, 1517A

KONTRON EKG P80

MACQUAIRE CT100, CT200.

M4 MEDICAL: M traces

NIHON - KOHDEN Cardiofax 651, 6581, 8110. PROGETTI all models: EPG junior, EPG view, EPG6 view, EPG6 view plus

SCHILLER AT/1, AT/2, AT/3, AT/4, AT/5, AT/6,



33356

HOLTER ECG SYSTEM - 24 HOURS MONITORING



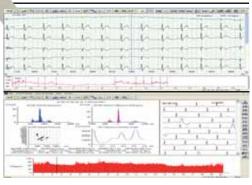
35130 ECG HOLTER + SOFTWARE

ECG Holter system includes ECG recorder and software connectable to a computer system or laser printer. The recorder has built-in flash storage media to increase memory capacity. The sampling rate of 1,000 sampling/sec has improved the quality of waveform.

Accuracy of the system is ensured by AHA and MIT data. **Features:**

- windows software interface (GB, IT, PL)
- quick and accurate analyzing system
- special editing system of R point
- perfect analysis function of ST segment
- analysis function of T wave of all channels and T wave trend graph
- review of ECG trend graph
- analysis system of HR variability, providing regular SDNN, SDANN, RMSSD, LF, HF, time domain and frequency domain
- QT analysis and QT trend graph
- acquire pacing ECG directly without separate channel; Also have the functions of VCG, VLP, TVCG, HRT, TWA





Recorder:

- 12 channel Synchronized ECG Acquisition
- small ECG recorder with OLED colour screen to display real time ECG waveform and review storage data.
- capacity up to 2G
- selectable sampling rate, 200, 500, 1,000 sampling/sec
- sampling accuracy: 12 bit built-in FLASH storage media, to prevent the flash card from damage due to repeated insertion and pull out
- USB interface
- operating system: Win 98, 2000, XP, 7, 8, 10
- 35131 ECG CABLE spare



Scale voltage: 1mV±5% Standard sensitivity:10mm/mV ±5% 1mV±5% Noise level: ≤30uV CMRR: >60dB Frequency response:

10Hz as benchmark, 0.5Hz~55Hz; -3dB Time constant: >3.2s

Scan speed: 25mm/s ±5% Enduring polarization voltage: ±300mV

Least measure signal: 50µV p-p Interference between channels: scan track deflection (result from interference between channels) < 0.5mm Product safety type: type B (internally powered)

Size: 111 (L) x60 (W) x25 (H) mm Net weight: 105 g (without battery)



STANDARD ACCESSORIES

- 1 Holter recorder 1 CD with software
- 10 leads patient cable 10 disposable ECG sensor
- 1 pouch for hanging recorder
- USB cable for data downloads
- Instruction Manual (GB, IT)

PC-ECG WITH INTERPRETATION SOFTWARE AND USB PORT

• 33320 PC-ECG + ECG LAB SOFTWARE

Innovative PC-ECG device that can be connected to your PC via USB port. No power cable is required as it is powered through the USB PC cable. The unit is supplied with a 10 banana plug ECG cable (length 295 cm) and a powerful interpretation software (GB, FR, IT, DE, ES, PT, CN). Main software features:

- 12 lead resting ECG with auto interpretation (ECG)
- vector ECG (VČG)

- tests comparison

- sampling screen colour customization - multi ECG report formats
- standard or thermal paper print, B&W or colour
- auto interpretation On or Off
- measurement table
- 90s resting ECG full disclosure

- hour ECG

- multi hour ECG monitoring with holter analysis
- simple exercise stress test with report e-mail, PDF, ASCII, HL7, Dicom, GDT Interfaces
- 33328 ECG CABLE SPARE
- 33321 PC-ECG+CARDIOLOGY SOFTWARE

Same as code 33320 but with the following specialist functions: timed vector ECG (TVCG)

- SAECG (Signal Averaged ECG) ventricular late potentials analysis
- QTd analysis - High Frequency ECG (HFECG)
- Frequency Cardiogram (FCECG)
 - simple exercise ECG

• 33322 CARDIOLOGY SOFTWARE to upgrade 33320 into 33321

USB - Support HL7, Dicom interface

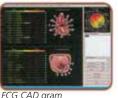
TECHNICAL SPECIFICATIONS

Communication port: Size: Power source: Patient insulation: Defibrillation protection:

120x85x28 mm - 190 g 5V DC (from PC USB port) 4000 V AC built-in patient cable Sample rate: 10240Hz Sample accuracy: 16 bit PC minimum requirements: Windows 2000, XP Vista and Windows 7 CPU ≥ 1 GHz - HD ≥ 40 G - RAM ≥ 256 M

STANDARD ACCESSORIES

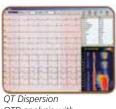
4 limb electrodes 6 chest electrodes Patient cable 10 leads. 10 electrodes USB pen driver CD software Banana plug



disease and ischemia

to locate coronary artery





QTD analysis with chroma map Above 3 pictures refers to code 33321



276

FIAB ECG UNIVERSAL ELECTRODES











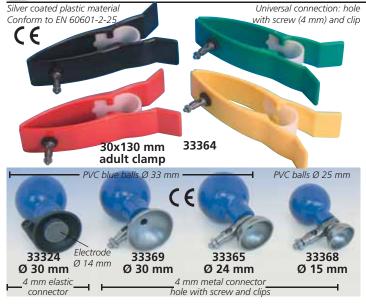
33370 F9060P PE-Foam Ø 40 mm Solid Round Snap Pediatric - rest, long term, stress and ECG holter bar			Minimum					
code	code	Material	Size	Gel	Shape	Connection	Application	order
33313	F9089P-100	Foam	Ø 32x36 mm	Solid	Oval	Snap	Pediatric - rest, long term, stress and ECG holter	box of 2,000 pcs (20 bags of 100)
33370	F9060P	PE-Foam	Ø 40 mm	Solid	Round	Snap	Pediatric - rest, long term, stress and ECG holter	bag of 50 pcs
33314	F9089-100	Foam	Ø 36x40 mm	Solid	Oval	Snap	Adult - rest, long term, stress and ECG holter	box of 2,000 pcs (20 bags of 100)
33371	F9060	PE-Foam	Ø 48x50 mm	Solid	Oval	Snap	Adult - rest, long term, stress and ECG holter	bag of 50 pcs
33344	F9067	PE-Foam	Ø 48x50 mm	Liquid	Oval	Snap	Adult - rest, stress and ECG holter	box of 1,200 pcs (24 bags of 50)
33327	F2080	Non woven	Ø 55 mm	Solid	Round	Snap	Adult - rest ECG	box of 1,200 pcs (24 bags of 50)
33341	F3001ECG	Gelled	34x23 mm	Solid	TAB	Alligator	Adult - rest ECG	bag of 100 pcs
33372	F9047/4FL	PE-Foam	28x44 mm	Liquid	Rectangular	Plug 4 mm	Adult - rest ECG	box of 1,000 pcs (20 bags of 50)
33373	F9053N	Foam	Ø 23x30 mm	Solid	Oval	35 cm wire with 4 mm socket	Pediatric and neonatal	box of 150 pcs (5 bags of 30)

ADAPTORS FOR ECG ELECTRODES



GIMA code	UNIVERSAL ADAPTERS FOR ECG ELECTRODES	Minimum order
	Set of 10 adaptors (6 white, 1 yellow, 1 green, 1 red, 1 black) for ECG electrodes with 4 mm snap - codes 33313, 33314, 33327, 33344, 33370, 33371	set of 10 pcs
	Alligator adaptor with wire - total length: 16,5 cm	10 pcs
	Alligator adaptor	10 pcs
	Multifunction adaptor - can fit both snap electrodes and TAB electrodes - size 14x54x17 mm	10 pcs
33374	Grabber adaptor - fit snap electrodes - size 22.5x33 mm	10 pcs

ILIMB CLAMP AND CHEST ELECTRODES

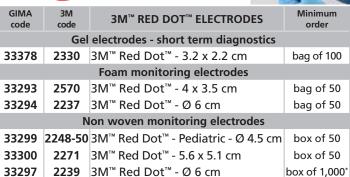


LECTRODES	
Universal connection -	Silver coated plastic
hole with screw (4 mm)	material conform to
and clip	EN 60601-2-25
20x90 mm pediatric clamp	33363
	1

	GIMA	UNIVERSAL REUSABLE ECG ELECTRODES	Minimum
	code	LATEX FREE - NICKEL FREE	order
Г	33363	Set of 4 limb clamp electrodes (4 colours) pediatric	1 set
L	33364	Set of 4 limb clamp electrodes (4 colours) adult	1 set
Г	33368	Set of 6 chest electrodes Ø 15 mm - silver coated	1 set
ı	33365	Set of 6 chest electrodes Ø 24 mm - silver coated	1 set
ı	33369	Set of 6 chest electrodes Ø 30 mm - silver coated	1 set
ı	33323	Set of 6 chest electr. Ultra Ø 24 mm - silver coated	1 set
L	33324	Set of 6 chest electr. Ultra Ø 30 mm - silver coated	1 set

3M™ RED DOT™ ELECTRODES





3M 2330 resting ECG electrode with adhesive gel

33300



3M 2271 diaphoretic soft cloth monitoring electrode with blue abrader 3-days wearing time

33293

3M 2570 electrode with foam tape and sticky gel radiolucent. 5-days wearing time

33299



3M 2248-50 pediatric monitoring electrode with micropore tape backing



3M 2237 fluid resistant foam polyethylene backing. 3-days wearing time

33297



3M 2239 monitoring electrode with micropore tape backing 3-days wearing time

Ambı

AMBU BLUE SENSOR ECG ELECTRODES



Shelf life means maximum life from production date. Average Gima shelf life is 50 to 90% of maximum life

BLUE SENSOR

20 bags of 50 pieces

BlueSensor is the world's most time and cost efficient range of electrodes that delivers unmatched readings, user convenience and patient comfort.

BlueSensor ensures that you don't get your workflow disrupted by false alarms or have to waste time resolving problems with electrode adhesion.

Exact monitoring - clear picture

Blue Sensor electrodes give a fast and reliable trace without the need for skin preparation, maximizing comfort for the patient. We know that fast, exact monitoring that ensures a clear picture of the patients' heartbeat is essential to accurate diagnoses.

AMBU BLUE SENSOR SU

- highly conductive wet gel
- superior quick adhesion
- unique offset connector fitting or tab

- occlusive backing material
- high quality Ag/AgCl sensor

AMBU BLUE SENSOR L

- highly conductive wet gel
- combination of instant and long-term adhesives
- breathable microporous material
- unique offset connector
- high quality Ag/AgCl sensor AMBU BLUE SENSOR VL

- highly conductive wet gel
- combination of instant and long-term adhesives
- breathable microporous material
- unique offset connector
- high quality Ag/AgCl sensor

AMBU BLUE SENSOR R

- highly conductive wet gel
- superior adhesion
- comfortable foam backing
- large measuring area



- unique offset connector
- high quality Ag/AgCl sensor AMBU BLUE SENSOR M

- highly conductive wet gel
- superior adhesion
- occlusive backing material
- unique offset connector
- high quality Ag/AgCl sensor

LECG GEL AND SPRAY

- 33266 ECG GEL 250 ml box of 40 tubes
- 33263 ECG GEL 5 I box of 4 bags*
- 33268 ECG SPRAY GEL 250 ml box of 20 tubes

Suitable for non pre-gelled electrodes, ECG latches and pendant switches in any ECG and exertional applications. Allows ECG waves clear transfer to equipment.

It is hypoallergenic, does not irritate skin, does not contain oil and oily substances, does not contain formaldheyde and salt, has no toxic effects and is odourless.

• 33283 PUMP FOR BAG 5 I

**Includes 4 empty bottles 250 ml and 1 nozzle for easy refill



■ GIMA ECG THERMAL PAPERS FOR DIFFERENT ECG BRANDS

_	GIMA ECC	J	ΙH	EK	IVI/	<u> </u>	PA	YE
						ECG pap	pers	7
-	7/1		/-				1	
GIMA	ECG MANUFACTURER	Type	Width	Length	Sheet	Marker	Grid*	Min.
code	AND MODEL ASPEL	.51-	mm	m				order
32951	Ascard A4, B56, Mr. Blue, Mr. Silver 3 Topaz, grey, v.07.204, orange, red, v.07.303	roll	112	25	-	no	or/red	10
	Ascard B5 eco, Mr. Green, mint Ascard, Mr. Gold, Gold/3 BIOCARE	roll roll	58 210	25 25	-	no no	or/red or/red	20 5
	101G 300G, 3010	roll roll	50 63	20 30	- -	no no	or/red or/red	20 20
32969 33002 32992	3030, 6010	roll roll roll	80 112 210	20 27 30	-	no no no	or/red or/red or/red	10 10 5
	1210, 1215 iE12, iE15 BIOLIGHT	pack pack	210 210	140 150	215 200	yes yes	or/red or/red	10 10
	BLT, 1203A, E 30 E70, E80	roll pack	80 210	20 295	- 150	no yes	or/red or/red	10 1
	Cardiocare/Cardiotouch BIOSET-HORMAN	roll	215	25	-	no	or/red	5
	Bioset 3600/3601/3700 Bioset 8000 - 8100 - 9000 - 9100	roll pack pack	80 110 210	20 100 150	200 400	no yes yes	or/red or/red or/red	10 10 5
32953	BTL BTL 08/MT, 08/MD, 08/MD3 08 MT, MD BTL 08/LC, 08/LT	roll roll roll	58 112 210	25 23 25	-	no no no	or/red or/red or/red	20 10 5
	BURDICK Atria 3100/6100, quest	pack	210	300	200	yes	or/red	1
32956	Elan 100 Delta 1 plus	pack pack	112 60	100 100	300 300	yes yes	or/red or/red	25 25
32958	Delta 1 plus Delta 3 plus Delta 30	roll pack roll	60 112 183	30 100 30	300	no yes no	or/red or/red or/red	20 25 5
32960	Delta 60 plus Elan 2100, Delta 612	roll pack	210 210	30 280	- 200	no yes	or/red or/red	5
33054	ECG 100+ AR/2100 (VIEW/ADV) - 66010042 ECG 200+ CAREWELL	pack pack pack	100 210 210	150 140 295	200 200 180	yes yes yes	or/red or/red or/red	10 8 1
33025	ECG-1101B, 1101C, 1101G ECG-1103B, 1103G, 1103L	roll roll	50 63	25 30	-	no no	or/red or/red	20 20
33059	ECG-1103GW, 1103LW ECG-1106G, 1106L ECG-1112L, 112M, T/12 COMEN	roll roll roll	80 112 215	30 25 25	- - -	no no no	or/red or/red or/red	10 10 5
32965	CM300 CM600	roll	80 110	20 20	-	no no	or/red	10 20
32966	CM 1200 A/B CM 1200 A/B CONTEC	roll pack	210 210	30 295	150	no yes	or/red or/red	5
32969 32970	1200, 1201	roll roll roll roll	50 80 110 210	20 20 20 30	- - -	no no no no	or/red or/red or/red or/red	20 10 10 5
32996	LTD400 LTD410, Heartscreen 60G LTD405S, LTD405W,	roll roll	50 58 80	25 25 25	- - -	no no no	or/red or/red or/red	20 20 10
32965 32960	LTD415 Heartscr. 80G LTD418, Heartscreen 112 LTD440, LTD445/S LTD450, LTD455/S, LTD455/W LTD450, LTD455/S, LTD455/W EDAN	roll pack roll pack	112 110 210 210	25 140 30 295	- 143 - 150	no yes no yes	or/red or/red or/red or/red	10 20 5 1
32966	SE-1 SE-3 SE-601 SE-6, 12, 1200 EXP	roll roll pack pack	50 80 110 210	25 25 140 295	- 143 150	no no yes yes	or/red or/red or/red or/red	20 10 20 1
	SE-6, 12, 1200 EXP SE/1201 ELETTRONICA TRENTINA/C	roll pack ARDII		30 140 ARDIOL	- 215 INE	no yes	or/red or/red	5 10
32972 32973	Autoruler 12/1, comp. 1x12 Start 100 AR 600	roll roll roll	50 130 60	30 27 15	- - -	yes yes yes	blue blue blue	20 10 25

1/2	FOR DIFFERE	IVI	EC	ם ט	<u> </u>	טווו:	<u> </u>	
code	ECG MANUFACTURER AND MODEL	Туре	Width mm	Length m	Sheet	Marker		Min. order
		pack		75	250	yes	blue	25
	AR 1200 AR 1200 (View/Adv)	roll pack	120 120	18 100	300	yes yes	blue blue	10 10
	Daedalus, AR2100	roll	210	20	-	yes	blue	5
	Daedalus, Start 200, AR2100	pack	210	150	200	yes	blue	8
	ESAOTE BIOMEDICA							
	P 80 base P 80 base	roll	90	28 70	400	no	or/red	10
	P 80 Power, P 80 SIX	pack pack	90 210	280	400 215	yes yes	or/red or/red	25 1
	P8000 base	pack	80	70	300	yes	or/red	20
	P8000 Power	pack	210	280	200	yes	or/red	1
	Archimed 4240, Archiwin	pack	210 126	300 150	200 170	yes	or/red white	1 20
	Personal 120 My Cardiopad base	pack pack	114	90	200	yes yes	or/red	20
	Esaote my Cardiopad 2157036		210	140	180	yes	or/red	5
	FUKUDA ME - FUKUDA DEI							
	501A, FX121, FCP-500, OP18TE FCP15, FCP11, OP110TE, OP119TE FCP2101, 2155, FX 2111, CASE10,	roll	50 63	30 30	-	no no	or/red or/red	20 20
32994	FCP 7101, FX 7102 OP/358TE, FCP/131, FX3010, FX3101, FX-8822	roll	145	30	-	no	or/red	10
	OP 111 TE, OP 115 TE, FX102 OP 112 TE, FX 2111, FX 7101,	pack pack	50 63	75 75	400 400	yes yes	or/red or/red	20 25
32992	FX 7102, FCP 2201 G FCP231, OP69TE, FX7402, FX7542, FX 8322	roll	210	30	-	no	or/red	5
	OP/382TE, FX-3010, FX-8222 OP222TE, FX7202	pack pack	145 110	75 140	400 143	yes yes	or/red or/red	10 20
32996	GIMA Cardiogima 1M, 3M	roll	58	25	_	no	or/red	20
32953	Cardiogima 6M, colour Cardiogima 12, 12M	roll roll	112 215	23 25	-	no no	or/red or/red	10 5
32999	Page Writer 100/200, M1709A, M2483A	pack	210	300	200	hole	or/red	1
	40453 A, 43120 INNOMED	roll	50	30	-	no	or/red	20
	HearthMirror IKO 3, HeartScreen 60 IKO, 60 G	roll	58 80	25	-	no	or/red	20
	HeartScreen IKO 80G-L, 80C-L HeartScreen 112 C-D KENZ - SUZUKEN	roll	80 112	25 23	-	no no	or/red or/red	10
	Cardico 302/601	roll	112	27	-	no	or/red	10
	Cardico 302/601 Kenz-Cardico 1210, 1211	pack roll	112 210	90 30	200	yes no	or/red or/red	20 5
	103, R50-30R, TEC 8300	roll	50	30	-	no	or/red	20
	MARQUETTE - HELLIGE - GI							
	MAC PC	roll	108	23	-	no	or/red	10
	Case 10-12-15, MAC 3000-5000 Cardiosmart, MAC 1200/1600	pack pack	215 210	280 295	300 150	hole yes	or/red or/red	1
	MAC 400, MAC 600	pack	80	90	280	yes	or/red	25
33013	MAC 800	pack	110	140	200	yes	or/red	25
22044	MINDRAY		00	20			/	10
	Beneheart R3 Beneheart R3	roll pack	80 80	20 70	200	no yes	or/red or/red	10 25
	BeneHeart R12	pack	210	295	150	yes	or/red	1
	MORTARA	ľ						
33017	Eli 50 Eli 100	pack roll	50 108	70 23	200	yes no	or/red or/red	25 10
	Eli 210, 250, 280, 350, 380	pack	210	300	250	no yes	or/red	10
33020	Eli 150	pack	108	140	200	yes	or/red	25
33021	Eli 230	roll	210	20	-	no	or/red	5
3303E	NIHON KOHDEN CARDIOFAX 8110, 9620, 1150K	roll	63	30	_	no	or/red	20
	Cardio-fax GEM/1250/1950, ECG-9010/9020/9022	pack	210	140	215	no yes	white	10
32962	Cardio-fax GEM/1250/1950,	pack	210	140	215	yes	or/red	10
33027	ECG-9010/9020/9022 GEM 9010, 9020, 9022, 1250, 1950	pack	110	140	143	yes	white	20
	1500, 1550, 9110, 9130,	ľ				•		
	9132, 9320, 2250	pack	210	295	170	yes	white	1
32998	PHILIPS Page Writer TC/10	roll	110	25	_	no	or/red	10
	Page Writer TC/50 - TC/70	pack	210	300	200	hole	or/red	1
32997	Touch, TRIM I / II / III, Page Writer TC/20, TC/30	pack	210	300	100	hole	or/red	1
32052	PROGETTI EPG 612	roll	112	23	_	no	or/red	10
	EPG Basik-pocket	roll	58	25	-	no no	or/red	20
	SCHILLER .	"						
	AT 1, AT 4	pack	90	90	390	yes	green	25
32982 33038	AT 2, CS 200 AT 10	pack pack	210 210	280 140	215 250	yes yes	or/red green	1 10
	AT 101	pack	80	70	300	yes	or/red	20
32984	AT 102	pack	210	280	200	yes	or/red	1
	AT110, AT 10 Plus, AT 2 Plus		210	140	150	yes	green	5
	Cardiopad, MS 2010 Esaote my Cardiopad 2157036	pack	114 210	90 140	200 180	yes	green or/red	20 5
33040	SIEMENS	pack	210	140	100	yes	Jilled	ر
	Cardiostat 1 Cardiostat 11	pack pack	50 63	75 75	400 400	yes yes	or/red or/red	20 25
32000	TRISMED Cardipia 201N	roll	63	30	_	no	or/red	20
	Cardipia 400, 406RS	roll	110	30	-	no no	or/red	25
	Cardipia 800, 812RS	roll	215	30	-	no	or/red	5

SONY MEDICAL PRINTERS



154x240xh 88 mm. for flexible integration into medical carts

33968

SONY

33993

• 33968 SONY HYBRID GRAPHIC PRINTER UP-X898 MD black/white

Produces A6 size printings in about 2 seconds, with superb print quality with 325 dpi and grey level of 256 steps. Can take both analogue video and digital signal inputs. 110-240 V AC, 50/60 Hz.

• 33993 SONY COLOUR PRINTER UP-25 MD

High quality analogue A6 Dye. Sublimation Printer for use in medical

applications.

An ideal technology for making high quality, accurate photographic prints.

See more info on www.gimaitaly.com



SONY ORIGINAL PAPER



SONY VIDEOPRINTER PAPERS

- 72726 SONY PAPER UPP-110 HD box of 10 rolls High density printing paper - 110 mm x 20 m
- 72727 SONY PAPER UPP-110 HG box of 10 rolls High glossy printing paper - 110 mm x 18 m
- 72728 SONY PAPER UPP-110S box of 10 rolls
- 72729 SONY PAPER UPP-110HA box of 10 rolls
- 72735 SONY COLOUR PAPER UPC-21L (4 ink rolls + 200 supports 144x100 mm)

MITSUBISHI ORIGINAL PAPER

• 72740 MITSUBISHI PAPER K65HM-CE - box of 4



I COMPATIBLE PAPERS FOR SONY AND MITSUBISHI PRINTERS



Compatibility Minimum Paper code **SONY MITSUBISHI** order mm x m 72745 UPP-110HG K91HG/KP91HG 110x18 hox of 5 high glossy 72746 UPP-84HG 84x12.5 box of 10 UPP-110HD box of 5 72747 110x20 72748 K65HM/KP65HM box of 5 high density 110x20 UPP-210HD 72749 210x25 box of 5 **72750** UPP110S 110x20 box of 5 standard K61S/KP61S/KP61B box of 5 72751 110x20

ULTRASOUND COMPATIBLE PAPER FOR VIDEOPRINTERS Top quality thermal print media perfectly fitting Sony and Mitsubishi thermal printers.

Long lasting image durability for high storage durability

- high humidity and heat resistance for long storage - strong resistance to water, finger prints and ultrasound gel drops.
- Precise, high resolution image reproduction
- first class colour intensity for highest black colour density
- outstanding, bright, sharp and detailed medical image
- high glossy, brilliant, photorealistic reproduction Trouble-free printing and long-term use of printer
- easy tearing along the cross direction
- minimum curling for flat photo media and easy filing
- built-in anti-electrostatic layer preventing thermal head damage.



COMPATIBLE DEFIBRILLATOR ECG THERMAL PAPER - DIFFERENT BRANDS

GIMA code	MANUFACTURER AND MODEL	Туре	Width mm	Length m	Sheet	Marker	Grid*	Min. order
	CORPLUS							
33100	Corplus 3	roll	106	20	-	no	or/red	10
	MINDRAY							
32968	Beneheart D3, D6	roll	50	20	-	no	or/red	20
	HEWLETT PACKARD							
33103	40457C/D, Codemaster 100, XL	roll	50	30	-	no	or/red	20
	NIHON KOHDEN							
33029	Def. TEC 5521, 5531,	pack	50	100	200	no	or/red	25
	BSM 2300, 3000	pack	30	100	200	110	oi/ieu	23
	Tech-8300	roll	50	30	-	no	or/red	20
*or/red:	grid could be orange or red c	olour						

ı	GIMA code	MANUFACTURER AND MODEL	Туре	width	Length m	Sheet	Marker	Grid*	Min. order
ſ		PHILIPS							
	33102	Defibrillator MRX	roll	75	25	-	no	or/red	10
	33103	Heartstart XL	roll	50	30	-	no	or/red	20
ı		PHYSIO CONTROL							
	33032	Life Pack 8-9-10	roll	50	23	-	no	or/red	20
	33033	Life pack 11-12-15	roll	107	25	-	no	or/red	10
ı		SCHILLER							
	32983	Defigard 6002	pack	80	70	300	yes	or/red	20
ı		ZOLL							
	33106	Defi/1400 (P/N 8000-0300)	pack	90	90	200	yes	or/red	20

GIMA ULTRASOUND GEL



GIMA code	ULTRASOUND GEL	Minimum order
33269	Sterile ultrasound gel - sachet - 20ml - transp	box of 48
33271	Ultrasound gel - sachet - 20ml - transparent	box of 200
33270	Ultrasound gel - tube 60 ml - transparent	box of 12
33272	Ultrasound gel - tube 250 ml - blue	box of 40
33273	Ultrasound gel - tube 250 ml - transparent	box of 40
33274	Ultrasound gel - bottle 1 l - blue	box of 12
33275	Ultrasound gel - bottle 1 l - transparent	box of 12
33276	Ultrasound gel - tank 5 l - blue	box of 2*
33277	Ultrasound gel - tank 5 l - transparent	box of 2*
33278	Ultrasound gel - bag 5 l - blue	box of 4**
33279	Ultrasound gel - bag 5 l - transparent	box of 4**
33283	Pump for tank 5 l and bag 5 l	

^{*}includes 2 empty bottles 250 ml ** includes 4 empty bottles 250 ml and 1 nozzle

GIMA ULTRASOUND GEL

Hypoallergenic, water soluble gel suitable for ultrasonography, doppler and defibrillator applications. It ensures the ultrasound waves come to the equipment display in a clear and uninterrupted way. Salt, formaldehyde, fragrance free.



GEL CLEANER

• 33281 GEL PROBE CLEANER 250 ml 33281

It removes the gel left over the probe, makes the image clearer and extends the probe life.

Thanks to the active agents contained, it prevents

the bacteria to pass from patient to patient, and it ensures hygiene. Alcohol-free.



COSMETIC GEL







33255

TECARTHERAPY CREAM

• 33251 TECARTHERAPY CREAM 1 I

It allows to reduce the contact impedance between the probe and the skin.

The high conductivity ensures the best results both in the capacitive phase and in the resistive phase of the treatment.

Preservatives and dyes used are non-toxic. Latex free.



33251

EEG PASTE

• 33262 EEG PASTE - 400 g

Used with EEG electrodes in EEG application for brain mapping. Thanks to the active substances in its content, it allows the electrode to cling to the strand of hair easily and provides conductivity. It is hypoallergenic, does not irritate skin, soluble in water and can be cleaned easily. Does not contain oil and oily substances. It has no toxic effects and odour.



KONIX COSMETIC LASER & CAVITATION GEL

Laser & Cavitation gel reduces the pain that patients experience during depilation and makes the device last longer by cooling the device head and window.

Thanks to the vacuum technology, its active substances and its high viscosity it preserves probe from damages.

It is not affected by the body salt during the use, ensures an easy application.

Technical properties: it is hypoallergenic, does not irritate skin, is water soluble and easily cleanable.

Oily substances, formaldehyde and salt free.

No toxic effects and odourless.

GIMA code	COSMETIC LASER & CAVITATION GEL	Minimum order
33253	Cosmetic gel - tube 250 ml	box of 40
33254	Cosmetic gel - bottle 1 l	box of 12
33255	Cosmetic gel - bag 5 l	box of 4**
33283	Pump for bag 5 l	

** includes 4 empty bottles 250 ml and 1 nozzle for easy refill

GIMA PORTABLE, BIDIRECTIONAL, VASCULAR DOPPLER - 33230 GIMA BIDIRECTIONAL DOPPLER NON STEREO with High definition

two probes: 4 and 8 MHz

Continuous wave (CW) bidirectional doppler equipped with electronic probes for high sensitivity and low background noise.

- bidirectional graphic separation of flow (forward and reverse)
- LCD graphic display for real time display of forward and reverse flow in bidirectional or separate mode
- selectable amplitude scale: 1, 2, 4, 8 kHz during the test and before printing. Preset zero line
- 5 minutes (300 sec.) continuous and reviewable memorized test. Operator can select the most meaningful exam and print it.
- calculation of: heart rate, peak flow and mean flow
- simultaneous connection of high sensitivity probes
- internal rechargeable large capacity battery (Ni-Cd 1.8 Ah); the system can be operated during charging. Autonomy 8 hours
- footswitch for freezing or memorizing the graphs
- hardcopy may or may not include the parameter calculation
- printing time scale: 25 mm/s
- Hi-fi audio output for correct acoustic diagnosis



- 33240 GIMA BIDIRECTIONAL PROBE 4 MHz spare for 33230
- 33241 GIMA BIDIRECTIONAL PROBE 8 MHz spare for 33230
- 33250 THERMAL PAPER 58 mm x25m (pack of 5 rolls)

POCKET DOPPLER WITH INTERCHANGEABLE OR FIXED PROBES



Ultrasound

Frequency: 2, 5 or 8 MHz continuous wave Transducer: 2 crystal narrow beam Output power: <15mW/cm² SATA Audio Response: 300Hz - 4 KHz Unit Controls

Keys: 1 Key (for unit on/off) Controls: rotary volume Indicators: Yellow battery low LED

Power supply

Battery 9V Alkaline (not included) Expected battery life: >9 hours Output

Headset: Audio output to optional headset (not included)

Material: ABS / Norvl Size - weight: 150 mm by 75 mm - 299 g Classification: Class I Type B - IEC 60601-I

GIMA POCKET DOPPLERS

Small, lightweight, high sensitivity pocket Doppler. Its probes are ideal for use by a General Practitioner, vascular specialist for routine vascular examination in ER for vessel location, or by specialists in diabetes, urology and gynaecology. Vascular flow signals and FHR are easily located using the transducer while internal signal processing minimizes noise artefacts. The flow signal is also available to the user via the built-in loudspeaker with output level controlled by rotary volume control. 2 years warranty.

Supplied in a nice bag with probe, cable, gel tube and 7 languages user manual: GB, FR, DE, IT, ES, GR, PT.

GIMA code	GIMA POCKET DOPPLERS
33120	DOPPLER V2005 with 5 MHz fixed vascular probe
33121	DOPPLER V2008 with 8 MHz fixed vascular probe
33123	DOPPLER V2000 (without probe)
	2 MHz interchangeable probe - foetal for V2000
33127	5 MHz interchangeable probe - vascular for V2000
	8 MHz interchangeable probe - vascular for V2000
	ON/OFF membrane switch spare for 33120/3

SONOTRAX DOPPLERS



built-in audio recorder and rechargeable batteries,

battery charger, carrying bag, without probe

29496 2MHz waterproof probe - gynaecology 29497 3MHz waterproof probe - gynaecology 29498 4MHz waterproof probe - vascular

29499 8MHz waterproof probe - vascular

SONOLINE COLOUR DOPPLER

3

0

29480 COLOUR SCREEN POCKET **DOPPLER**

- portable and lightweight
- built-in speaker

29499

- TFT-LCD, real-time display of FHR
- three working modes: real-time FHR, average FHR and manual calculation
- display of FHR, bar graph and heartbeat waveform, red alarm for abnormal FHR
- low power consumption, continuously work for more than 8 hours with two "AA" batteries LR6 - 1.5 VDC
- indication for probe-off and low battery
- 29481 2 MHz WATERPROOF PROBE gyn
- 29482 3 MHz WATERPROOF PROBE gyn • 29483 4 MHz WATERPROOF PROBE - vascular
- 29484 8 MHz WATERPROOF PROBE vascular

TECHNICAL SPECIFICATIONS

Ultrasound working frequency: 2 MHz ± 10% 50-240 bpm Fetal heart rate: range: accuracy: ± 2 bpm resolution: 1 bpm Alarm: high limit: 160 bpm low limit: 120 bpm Ultrasound intensity: < 5 mm/cm² Auto power off after 1 minute no signal Dimension - weight: 135x92x29 mm - 245 g

MINDRAY DP-10 AND DP-20 DIGITAL ULTRASOUND SYSTEM

DP-10 slim and smart

Good image quality, easy to use and lightweight to take it anywhere. It combines fashionable design, diagnostic confidence and economy.

DP-20 exceeds your expectations

Smart portable B/W ultrasound system with advanced features

Display modes and imaging processing:

Broadband, multi-frequency imaging: B, B/B, 4B, B/M, M

Imaging processing:

- multi-frequency probes for 2D imaging modes -
- iClear: speckle reduction image
- THI (Tissue Harmonic Imaging) with convex probe 33976 only
- TSI (Tissue Specific Imaging)
- zoom function: spot zoom, pan zoom
- ExFOV (Extended field of view)

Extended view of the anatomical structure on all convex and linear probes allow to discover better diagnostic information.

iTouch (Auto image optimization)

User interface

- alphanumeric QWERTY keyboard with backlight
- trackball: speed presettable
- 8-segment TGC
- user defined blank keys: shortcut for easy access to menus

iStation™ intelligent workflow

Intelligent patient data management system

- integrated search engine for patient data
- detailed patient information review
- intelligent data backup/restore
- patient data/image sending, data deleting (USB, DVD, DICOM)
- exam managing: activate exam

Storage/review mode:

- image archive on hard disk and USB mobile storage medium, temporary saving in cine memory, directly transfer report to PC
- 2 USB ports
- multiple image formats: BMP, JPG, DCM, FRM, AVI, DCM, CIN
- iVision: demo player
- Cine review: auto, manual (auto review segment can be set), supports linked cine review for 2D, M images
- Cine memory capacity (max.)
- clip length presettable: 1-60 s

Supplied with GB, IT manual and CD manual (GB, FR, IT, ES, PT, DE, RU, BR).

GIMA code	DIGITAL ULTRASONIC DIAGNOSTIC IMAGING SYSTEM													
33970	MINDRAY DP-10 B/W system with 1-probe connector, 12.1" high resolution LED monitor, 2 USB port, 1 VGA OUT port, 1 video OUT, 1 S-Video OUT, software, without probe													
33971	MINDRAY DP-20 portable B/W system with 1-probe connector, 12.1" high resolution LED monitor, 2 USB port, THI, iStation™, software package, without probe													
	PW DOPPLER													
33969	PW (Pulse Wave) doppler for probes 33976, 33977													
	ACCESSORIES													
33875 33876 33974 33985 33986 33968	Needle guided brackets for Linear probe (33977, 33983) Needle guided brackets for Micro-Convex probe (33979, 33984) Lithium-ion rechargeable battery for DP-20 Carrying bag for DP-10, DP-20, DP-30 UMT-110 mobile trolley for DP-10, DP-20, DP-30 SONY HYBRID GRAPHIC PRINTER X898 MD													
PROBE	S DP-10 - DP-20 FREQUENCY (MHz) • Main application													
	, , , , , , , , , , , , , , , , , , ,													

PROBE	S DP-10 -	FREQUEN	Main application											
GIMA code	Mindray code	Scanning method	Main freq.	Probe band width	ABDOMINAL	OB / GYN	UROLOGY	SMALL PARTS	CARDIOLOGY	MSK	VASCULAR	PEDIATRIC	ORTHOPEDICS	NTRAOPERATIVE
33976	35C50EB	Convex	3.5	2.0 - 5.0	•	•	•					•		П
33977	75L38EB	Linear	7.5	5.0 - 10.0	•			•		•	•	•	•	П
33978	65C15EA	Micro-convex	6.5	5.0 - 8.5	•				•			•		П
33979	65EC10EB	Micro-convex	6.5	5.0 - 8.5		•	•							П
33980	35C20EA	Micro-convex	3.5	2.0 - 5.0	•	•	•					•		П
33983	75L53EA	Linear	7.5	5.0 - 10.0	•			•		•	•	•		•



Handle for

easy mobility

iScanHelper function

Dedicated inbuilt tutorial function to enhance ultrasound experience.

- wide selection of application specific exam planes
- anatomical illustrations
- standard ultrasound images
- scanning reference pictures
- tips on scanning and diagnosing

Optional PW doppler for probes 33976 (Convex), 33977 (Linear) DP-10/20 support superb PW Doppler imaging to access blood flow in different clinical conditions.

With PW, doctors will be able to:

- differentiate non echoarea and blood vessels
- distinguish arteries and veins
- evaluate blood flow velocity for more comprehensive diagnosis
- Check the health of a fetus by blood flow evaluation of the umbilical cord

Features

Parameter adjustment: Gain, Sample volume size, Scale, Steer, Dynamic range, Wall filter, etc.

Measurement: Trace, HR, Velocity, PS/ED, PI, RI, etc.

Dimension: 16x29xh 35.4 cm (6.3 "x11.4"xh 13.9")
Weight: 5.1 kg
Display: 12.1" LED, high-resolution 1024x768
Display language: DP-10, DP-20: GB, FR, DE, IT, ES, PT, RU, CZ, PL
AC100-240 V, 50-60 Hz
Rechargeable lithium-ion battery (DP-20 only) - on request

33985





MINDRAY DP-50 DIGITAL ULTRASOUND DIAGNOSTIC SYSTEM 33973 + 33988 Supplied with GB, IT manual and CD manual GB, IT, FR, DE, RU, ES, PT, BR.

TECHNICAL SPECIFICATIONS

15" LCD Display: GB, FR, IT, ES, PT, RU, PL, CZ, TR, FI, DK, NO, SE, DE

Display language:

AC 100-240 V - 50/60 Hz rechargeable lithium-ion battery - on request

Size and weight: 19x41.5xh 37.8 cm (7.5"x16.3"xh 14.9"); 7.7 kg (17 lb)

• 33973 MINDRAY DP-50 PORTABLE ULTRASOUND with 15" high resolution LCD monitor, 2 probe connectors, 320GB hard disk, 4 USB ports, multiple software package, without probes. Imaging mode: B, B/B, 4B, B/M, M Image processing technology:

- Phase Shift Harmonic Imaging - Tissue Harmonic Imaging

- iBeam™ Spatial Compound Imaging - iClear™ Adaptive Speckle Suppression Imaging

- iTouch™ Auto Optimization - Trapezoid imaging

- iZoom™ Automatically expand the image to full screen - Slant scanning for linear probes (2D Steer)

Wideband multifrequency probes: continuously adjustable 2-14 MHz Intelligent Workflow/Storage/Review:

- iStation™ Intelligent patient data management system

- 320 GB integrated hard disk for storage - 4 USB ports - Cine memory capacity (Max.) B mode: 10566 frames M mode: 66.3 s

• 33972 MINDRAY DP-50 PT PORTABLE ULTRASOUND PHY-SIOTHERAPY PRESET with 15" high resolution LCD monitor, 2 probe connectors, 320GB hard disk, 4 USB ports, multiple software package, without probes.

Same as 33973 but with real time ultrasound imaging (RTUI)

for physiotherapy.

Dedicated Physiotherapy presets: pelvic/hip/lumbar spine/ shoulder/elbow/wrist/knee/ankle/Achilles tendon/cervical spine. Dynamic tracking therapeutic effects with image comparison function. Optimal musculoskeletal image quality

MINDRAY Z5 COLOUR DIAGNOSTIC ULTRASOUND SYSTEM

• 33880 MINDRAY Z5 COLOUR PORTABLE ULTRASOUND with 15" high resolution LCD monitor, 2 probe connectors, 320GB hard disk, 4 USB ports, multiple software package, without probes.

A colour doppler system that offers a rare combination of high performance and low cost. Superior image quality, affordability, versatility and mobility in a unique portable Doppler system: Versatility

- scanning modes: B, Colour, PW, Power, M, FreeXros M image display modes: B, 2B, 4B, B/C, B/M, B/PW, Triplex PW
- applications: ABD/OB/GYN/CAR/SML/URO/VAS/ORTH/EM/NERVE
- transducer variety: Convex, Linear, Micro-convex, Endocavity
- extended scanning angle with ExFov function
- high frequency linear probe for superficial scanning **Productivity**
- iTouch: quick image optimization with one-click
- iZoom: instant full screen zoom with one-click
- iStation: patient database review and analysis platform
- iStorage: direct data transfer to PC
- Clipboard: easy play, preview and sharing of cineloop
- Multiple image formats : BMP, JPG, DCM, AVI, DCM, CIN Mobility
- compact and streamlined design weighing 7.7kg
- 15" LCD monitor with 30 degree tilt function
- dual universal transducer connectors





33880

Display: Software display

+ keyboard input: Keyboard input: Power:

Size and weight:

GB, FR, IT, ES, PT, RU, PL, CZ, DE TR, FI, DK, NO, SE AC 100-240 V - 50/60 Hz

rechargeable lithium-ion battery - on request 19x41.5xh 37.8 cm (7.5"x16.3"xh 14.9"); 8.8 kg (19.4 lb)

> Trollev size: 44.5x53.5x h 81 or 87 cm

PROBES AND ACCESSORIES FOR DP-50 AND Z5

GIMA code	ACCESSORIES for DP-50 and Z5
33875 33876 33975 33987 33988 33968 33993	Needle guided brackets for Linear probe (33983) Needle guided brackets for Micro-Convex probe (33984) Lithium-ion rechargeable battery for DP-50 and Z5 Carrying bag for DP-50 and Z5 UMT-150 mobile trolley for DP-50 and Z5 SONY PRINTER UP-X898 MD FOR DP-50 SONY COLOUR PRINTER UP-25 MD FOR Z5

PROB	ES DP-50	FREQUENCY (MHz)			Main application									
GIMA code	Mindray code	Scanning method	Main freq.	d. width		OB / GYN	UROLOGY	SMALL PARTS	CARDIOLOGY	MSK	VASCULAR	PEDIATRIC	PROSTATE	ORTHOPEDIC
33982	35C50EA	Convex	3.5	2.0 - 5.0	•	•	•							
33983	75L53EA	Linear	7.5	5.0 - 10.0	•			•		•	•	•		П
33978*	65C15EA	Micro-convex	6.5	5.0 - 8.5	•				•			•		П
33984*	65EC10EA	Micro-convex	6.5	5.0 - 8.5		•							•	П
33990*	10L24EA	Linear array	10.0	8.0 - 14		•		•		•	•	•		
34004	75L38EA	Linear	7.5	5.0 - 10.0				•		•	•			•



33987

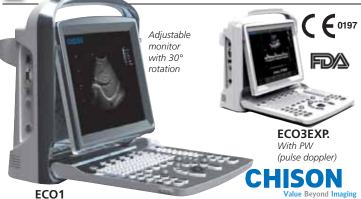
Height selectable (2 levels) when installing





*not for DP-50PT

CHISON ECO1 AND ECO3EXP. DIGITAL ULTRASOUND SYSTEMS



GIMA **DIGITAL ULTRASOUND B&W DIAGNOSTIC IMAGING SYSTEM** code 33863 CHISON ECO1 with 1 probe connector without probe 33864 CHISON ECO3EXP. with 2 probe connectors without probe STANDARD PACKAGE

STANDARD FACKA			
	ECO1	ECO3EXP.	ECO5
12" high resolution LED monitor - B&W	•	•	
12" high resolution LED monitor - colour			•
8G memory card	•	•	•
Hot Key	•	•	•
PC printer connection	•	•	•
3 USB port	•	•	•
1 ethernet port	•	•	•
1 video out port, 1 VGA out port	•	•	•
1 footswitch port	•	•	•
Full screen display	•	•	•
2.5 hours rechargeable lithium-ion battery	optional	•	•
Power adaptor	•	•	•
Standard software package	•	•	•
Easy View image archive system	•	•	•
THI	•	•	•
PW (doppler function to detect blood flow speed)		•	•
TECHNICAL SPECIFICAT	TIONS		

Dimension and weight: 33.5x15.5xh 35 cm (13.2"x6.1"xh 13.8"); 6 kg

12" LED, high resolution 1024x768 Display:

AC 100-240 V - 50/60 Hz Power:

285

rechargeable influm-ion battery (ECOT option, ECO3EXP. standard)															
		LANGUAGE - switchable by user													
	GB	B IT FR ES DE CZ TR CN													
Software	•	•	•	•	•	•	•	•	•						
User manual	•	•						•							

ECO1 Premium Design, Surprising Price ECO3EXP. Premium Black&White Model with Doppler,

- ultra-compact and ultra-light weight, easy to carry

- latest LED screen technology, super bright images allow to easily view scan even outdoor.
- ergonomic monitor design, 30 degree rotation, adjustable.
- ultra-long battery life up to 2.5 hours, for outdoor scanning
- one-key to enlarge image to full screen, easy to view from distance - streamlined workflow, easy to operate, 6-one-key to finish the cycle of diagnosis.

Display modes and imaging processing

B, B/B, 4B, M, B/M, PW (ECO3EXP. only) multi-frequency imaging Imaging processing

compound Imaging

- i-image intelligent image optimization
- THI (Tissue Harmonic Imaging)
- SRA (Speckle Reduction Algorithm) - full digital beam-former
- full screen display

- trapezoidal
- automatic PW trace (ECO3EXP. only)
- Chroma
- AIO (Automatic
- Image Optimization)

User interface

- fold-up control panel and alphanumeric keyboard
- back-lit keyboard for good visibility in dark room
- interactive back-lighting
- indicator lights identify activated keys
- 8 TGC slides for easy adjustment
- short cut knob for quick adjustment (hot key user- defined)
- neat and clear keyboard layout, doctor can remember easily
- user defined preset

Streamlined workflow, one key to:

- select desired application with automatic preset
- optimize the image automatically (AIO) - Make report
- save still image and CINE loop
- Measure
- print to PC printer* (laser or inkject) or video printer See list of compatible printers on our websites

EASYVIEW™ Archive system

- image archive on hard disk and USB mobile storage
- 3 USB ports
- multiple image formats: BMP, JPG, DCM, CIN, AVI
- cine review: auto, manual (auto review segment can be set) for 2D, M, PW (ECO3EXP. only) images
- cine memory capacity (256 frames/10s)

CHISON ECO5 COLOUR DOPPLER DIGITAL ULTRASOUND SYSTEM



- 33865 CHISON ECO5 Colour Doppler 12" high resolution color LED monitor, 8G high speed memory, 3 USB ports, 2 probe connectors, EASYVIEW™ archive system, without probe Imaging model: B, B/B, 4B, B/M, M, CFM, PW Imaging processing:
- MCI (Multiple Compound Imaging)
 - trapezoidal
- i-image intelligent image optimization automatic PW trace
- THI (Tissue Harmonic Imaging) - Chroma
- SRA (Speckle Reduction Algorithm) - full screen display model
- full digital beam-former AIO (Automatic Image Optimization) Other specifications as ECO3EXP.

TECHNICAL SPECIFICATIONS

Dimension and weight: 33.5x15.5xh 35 cm(13.2"x6.1"xh 13.8"); 6.5kg Display: 12" LED, high-resolution colour 1024x768 AC 100-240 V, 50-60 Hz Power: Rechargeable lithium-ion battery

PROBES AND ACCESSORIES FOR CHISON ECO SERIES

PROBES ECO1 - 3 - 5			FREQU	JENCY(MHz)	Main application									
GIMA code	CHISON code	Scanning method	Main freq.	Probe band width	ABDOMINAL	OB&GYN	UROLOGY	SIMALL PARTS	BASIC CARDIOL.	MSK	WASCULAR	PEDIATRIC	ОКТНОРАЕD.	
33998	C3-A	Convex	3.5	2.5 - 5.0	•	•	•					•		
33999	L7M-A	Linear**	7.5	5.3 - 10.0				•		•	•	•	•	
33871	L7S-A	Linear***	9.0	5.3 - 11.0				•		•	•	•	•	
33872	V6-A	Trans-vaginal	6.0	4.5 - 8.0		•	•							
33997	MC6-A	Micro-convex	6.0	4.5 - 8.0	•							•		
33873*		Trans-rectal	7.5	5.0 - 10.0			•							
33874	MC3-A	Micro-convex	3.0	2.5 - 5.0	•			•	•					
*For ECO3	BEXP. and E	CO5 only **Wi	th 40 m	ım footprint, g	gen	era	l lin	eai	pr	obe				

i-A	Micro-convex	6.0	4.5 - 8.0	•					•	
Α	Trans-rectal	7.5	5.0 - 10.0		•					
S-A	Micro-convex	3.0	2.5 - 5.0	•		•	•			
nd ECO5 only **With 40 mm footprint, general linear probe										
With 30 mm footprint for superficial tissue exams with higher resolution										

GIMA ECO SERIES ACCESSORIES 33869 Rechargeable lithium-ion battery BT-2500 (2.5 hours) ECO trolley TR-9000 33867 33868 Carrying bag Needle guided brackets - specify for which 33866 probe (for 33998-9, 33872-4 only) **PRINTERS** 33968 SONY UP-X898 MD B&W printer (for ECO1 and ECO3EXP.) 33993 SONY UP25MD colour printer(for ECO5)



CHISON QBit5 AND i8 ECOCOLOURDOPPLERS



• 33877 QBit5 ECOCOLOURDOPPLER - 15" flat high resolution LED monitor. Supplied with 2 probe connectors and 1 parking probe connector, trolley, keyboard, large image storage: 32 GB HardDisk, 6 USB ports, VGA format, without probes. Affordable and reliable colour doppler with advanced technologies: compound imaging, quad beam former imaging, Q-image, Q-flow, X-contrast providing superb images. The Streamlined workflow and ergonomic outlook design improve work efficiency.

Imaging modes: - Power Doppler / Directional PD - B/BC - CFM - PW mode - CW mode - full screen - duplex, triplex - chroma B/M/PW/CW - B, 2B, 4B, B/M, M Four chambers view, B/BC mode **Imaging modes:**

- trapezoidal on linear probe

Image processing technology:
- Speckle Reduction Algorithm (SRA)
- direct print to PC or video printer

automatic image optimization (AIO)

- fusion harmonic imaging (FHI)

Special radiology function: 2D steer and super needle (optional) Phased array probe functions include CW, TDI, ECG, Colour M

and complete calculation packages including PISA/Dp/Dt

		PROBES	FREQUENCY (MHz)			•	Ma	ain application						
GIMA code for QBit5	GIMA code for i8	Scanning Method	Main freq.	Probe band width QBit5	Probe band width i8	ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	CARDIOLOGY	5	PROCTOLOGY	PEDIATRICS	VESSELS
33953	33953	CONVEX	3.5	2-6.8	2.5-5.3	•	•	•						
33955	33955	LINEAR	7.5	4-15	5-10				•					•
33956	33956	MICRO-CONVEX (TRANSVAGINAL)	6.0	4-12	4-10.7		•							
33964	33964	MICRO CONVEX (BASIC CARDIAC)	3.0	2-6.8	2.5-6.4					•			•	
-	33963	CARDIAC (PHASED ARRAY)	3.0	-	2.5-4					•				
33879	-	CARDIAC (PHASED ARRAY)	3.0	1.5-5.3	-					•	•			
33958	33958	PEDIATRIC	5.0	4-10.7	3.5-8								•	
-	33959*	4D CONVEX	4.5	-	2.2-6.4	•	•							П

*Spare for 33966

• 33965 i8 ECOCOLOURDOPPLER - 19" flat high resolution monitor

Supplied with 4 probe connector, trolley, keyboard, large image storage: 500 GB HardDisk, 6 USB port, DVD-RW, VGA format, I-image, Cardiac Package, without probes. Digital colour Doppler System with professional features: I-IMAGE improves image quality and offers ECG Intelligent I-image optimization.

Imaging mode:
- B, 2B, 4B, B/M, M
- CFM, Power doppler, Directional PD

- PW mode, CW mode (with cardiac probe) panoramic - instant triplex, duplex, quadplex

- trapezoidal on linear probe - chroma B/M/PW/CW Image processing technology

Tissue Harmonic Imaging (THI) on all probes Speckle Reduction Algorithm (SRA)

- Multiple Compound Imaging (MCI)

Wideband multifrequency probes Continuously adjustable, 2.5-12 MHz Operating voltage: 100-240 V, 50-60 Hz

Cardiac Package (colour M, CW, steering M, ECG, TDI, IMT) 33966 i8 ECOCOLOURDOPPLER+4D PROBE AND PACKAGE Same as 33965 but with 4D real time imaging composed of 3D pictures with addition of live motion and probe 4D convex (33959). • 33993 SONY UP - 25 MD COLOUR PRINTER A6 for i3, i8, QBit5

• 33968 SONY UP-X898 B/W PRINTER for i3, i8, QBit5

33953 33964 33958 33959

33955 33956

- B/BC mode

CHISON 600M PORTABLE ULTRASOUND

• 33930 CHISON 600M PORTABLE ULTRASOUND 10" SVGA monitor with two probe connectors, 256 frames cine memory, USB port, VGA port, without probes

zooming and measurement functions (max scanning depth: 252 mm)

wide applications: GYN, urology, abdominal, small parts

 4-steps sweep speeds for cardiac study: 2s, 4s, 6s, 8s

4-steps zoom with depth control: x0.8, x1.0, x1.5, x2.0

> Ergonomic keyboard



Lightweight: only 7 kg (size: 42x27x25 cm)

- various measurements: distance, circumference, area, volume full Ob/Gyn software included: 7 EDD tables (BPD, GS, FL, AD,
- HC, AC, CRL), G.A. (fetal age) from 4-43 weeks fetal weight, fetal heart rate measurement
- imaging reversing: up/down, left/right, positive/negative power supply: 110-230 V, 50-60 Hz

• 33968 SONY PRINTER UP-X898 MD • 33901 TROLLEY FOR 33930

	PRO	PROBES FREQUENCY (MHZ)				lterr	e ap	cation oplication		
GIMA code	Outlook	Scanning Method	Main 4-Step freq. Multi- frequency		ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	BREAST	VESSELS
33932		CONVEX	3.5	2.5/3.5/4.0/5.0	•	•	•			
33933	13-	LINEAR	7.5	5.0/6.0/7.5/9.0				•	0	•

SONOTOUCH™ 10.4" TOUCH ULTRASOUND COLOUR DOPPLER

• 33919 SONOTOUCH™ 30 - colour

doppler with built-in probe connector, 10" high contrast LED monitor, 16 G memory, 3 USB port,

video, LAN port, without probe. Lightweight, portable, small size, touchscreen ultrasound devices. Main features:



- display mode: B, B/B, 4B, B/M, M, Colour and PW mode. In the M or B/M mode, 4 steps sweep speeds.

- multi-step display magnification, depth enhancement
- setting adjustment of total gain, and 8 segments of TGC slides for selection and adjustment
- multifocal firing focus, edge enhancement, frame averaging, compound
- image freezing and storage function, built-in 16 GB high-speed memory and external USB memory disk can be connected to the system for mass storage through USB port. Stored images can be retrieved for analysis.
- 256 frames of real-time images can be stored in Cine-memory
 probe scanning direction can be changed and the image can be reversed in left/right, up/down direction
- measurements of distance, area, circumference, volume, OB etc. Automatic calculation of OB and cardiology. Direct display of gestation age, expected date of child delivery and direct measure of heart rate
- real-time clock displays date and time automatically
- display of body marks with corresponding probe position indication
- annotation function in image area of the screen. Special annotation terms for different exam-mode can be added according to user's requirement
- built-in rechargeable lithium Ion battery. Life up to 2.5 hours
- full touch screen display



	PROBES	FREQUENCY (MHz)			• 1	/laiı	n a	ppl	icat	ion	
GIMA code	Scanning Method	Main freq.	Probe band width	ABDOMINAL	OB/GYN	UROLOGY	CARDIOLOGY	VASCULAR	SMALL PARTS	MSK	PAEDIATRIC
33922	CONVEX	3.5	2.5 - 5.0	•	•	•					
33923	LINEAR	7.5	5.0 - 10.0					•	•	•	
33924	MICRO-CONVEX	3.0	2.5 - 5.0	•	•		•				
33926	TRANSVAGINAL	6.0	4.0 - 7.5		•	•					
33927	MICRO-CONVEX	6.0	4.0 - 8.0								•

CHISON Q5, Q9 AND Q9 4D PORTABLE COLOURDOPPLER

• 33950 CHISON Q5 COLOURDOPPLER with 2 probe connector, 15" high resolution monitor, 500 GB hardisk, 2 USB port, LAN port, Video, TV, VGA out, I-Image, without probe.

Portable digital colourdoppler with high professional features:

Imaging mode:

- Instant Triplex, Duplex

- B, 2B, 4B, B/M, M

- Power Doppler / Directional PD

- CFM

- Trapezoidal

- PW mode

- Chroma B/PW

Image processing technology:

- Multi-beam former technology
- I-image™: image optimization technology
- THI
- Speckle reduction algorithm (SRA)
- Multiple compound imaging (MCI)

Operating voltage: 110-240 V, 50-60 Hz. Manual: GB, IT, on request FR.

• 33952 CHISON Q9 COLOURDOPPLER

Same as Q5 but with TDI quantitative cardiac dialysis, THI on all probes, double phase digital beam, DPDBF, IMT calculation, needle enhancement, 500 GB hard disk, quadplex, Cardiac Package. Suitable for cardiac use.

Cardiac Package (ECG software, CW, Free Steering M, colour M, TDI) included.

• 33951 CHISON Q9+4D COLOURDOPPLER

Same as Q9 but with 4D real time imaging.

• 33901 TROLLEY FOR Q5, Q8, Q9

			PROBES	FREQUENCY (MHz)			M	lair	ı ap	pl	icati	or	1
	GIMA code for Q5	GIMA code for Q9	Scanning Method	Main freq.	Probe band width	ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	ENDOCAVITY	CARDIOLOGY	PEDIAIRICS	VESSELS
	33954	33954	CONVEX	3.5	2.5 - 5.3	•	•	•				I	
	33955	33955	LINEAR	7.5	5.0 - 12.0				•			I	•
	33956	33956	TRANSVAGINAL (MICRO-CONVEX)	6.0	4.0 - 12.0		•	•		•			
	-	33957	CARDIAC (PHASED ARRAY)	3.0	2.5 - 5.0						•		
L	33958	33958	PEDIATRIC	5.0	3.5 - 9.6						•	•	
	33959	33959	4D CONVEX	4.0	2 - 6.8	•	•						

33958 33958 PEDIALRIC 5.0 3.5 - 9.6 Says 33959 33959 4D CONVEX 4.0 2 - 6.8 For probes purchased separately from ultrasound it is necessary to supply the serial number of the device 287



33958

33959

33957

GIMA VITAL SIGNS MONITORS

"Vital Signs" is a line of small multi-parameter patient monitors, which can monitor the vital physiological parameters: non-invasive blood pressure (NIBP), pulse oxygen saturation (SpO₂), electrocardiogram (ECG) and temperature (TEMP). Features:

- small size, clear and bright display (14x17 cm) for remote view
- up to 12,000 groups of NIBP measurements can be stored and listed
- up to 96 hours of SpO, and HR trend curve can be displayed
- built-in rechargeable battery, 2 hours use (35120-2) or 3 hours (35124)

- USB port (35124 only)

- Manual (English)

- optional built-in thermal printer

орионе	optional balle in thermal printer										
GIMA code	MONITOR	SpO ₂	NIBP	ECG	TEMP						
35120	VITAL-S	•									
35121	VITAL-SNT	•	•		•						
35122	VITAL-SNET	•	•	•	•						
35124	VITAL PRO-SNET	•	•	•	•						
35125 35141	Printer*- optional * Inst Paper 5.1 cm x 12 m - I	tallation don	e by Gima i Need s	f ordered w service if or	rith monitor. Edered later.						
35126	Lead acid re-chargeabl										
35129	Lithium re-chargeable										
35135 35136	Adult SpO ₂ probe - spa Pediatric SpO ₂ probe	are	1/4		35120 + 35128						
35137 35140 35142 35139 35143 35127	ECG cable - spare NIBP cuff - 10-19 cm - NIBP cuff - 18-26 cm - NIBP cuff - 21-35 cm - NIBP cuff - 27-42 cm -	pediatri adult adult XL	c XL		Rail /clamp						
35127	Trolley - adjustable 73 Rail clamp	10 113 0	-111		T						
- Adult Spo - NIBP adu - Tempera	ılt cuff ture probe - skin type e + 10 ECG electrodes	35121	35122	35124 • • • • • • • • • • • • • • • • • • •	127						
- Lithium k	pattery	_		•	00						



TECHNICAL SPECIFICATIONS

NIBP Technology: Oscillometric method Standard measurement range:

Systolic: Adult: 50 - 240 mmHg Diastolic: Adult: 15 - 180 mmHg MAP: Adult: 25 - 200 mmHg Measurement mode: Manual, Auto, STAT

SpO. SpO measurement range: 0 - 99% SpO₂ measurement accuracy:

75 - 99% ±2% 50 - 74% ±3%

GIMA

Low perfusion performance: 0.4% Pulse rate measurement range: 30bpm~240bpm

Pulse rate measurement accuracy: ± 2 bpm or 2% whichever is greater Size: 18.5 x 18 x h 29 cm Weight: 2.4 kg ECG and TEMP

SpO₂+NIBP+

Heart rate range: 20 - 300 bpm TEMP measurement range: 25 - 45 °C Accuracy: ±2 bpm or 1% whichever is greater (ECG) ±0.2 °C (TEMP)

Power AC power supply: 100 - 250V, 50/60 Hz Internal power supply: 12 VDC (rechargeable) Battery:

12V 2,3AH (lead-acid battery) (35120-2) 11.1 V, 4,400 mAh liuthium battery (35124)

PC-3000 MULTI-PARAMETER PATIENT MONITOR



Weight: 2.5 kg

35134 PC 3000 MULTI-PARAMETER PATIENT MONITOR

- 7" high resolution colour TFT display, 5-channel waveform display
- standard parameters: ECG, RESP, SpO₂, NIBP, 2-TEMP, PR; Arrhythmia analysis and ST segment analysis
- up to 12,000 groups parameter data & 60-hour ECG waveform storage and recall
- 1,000-hour graphic and tabular trends for all parameters
- 7-channel ECG simultaneous waveforms display
- protection against interference from defibrillator, electrosurgical knife
- adult / pediatric measurement modes
- visual and audible alarms; networking capability
- carrying handle with bed-hooks

Internal software: GB, IT. On request: FR, ES, PT, PL, CZ, TR, CN.

STANDARD ACCESSORIES

- ECG cable 1 SpO₂ probe 1 AC power Adapter
- 1 NIBP cuff 1 Li-ion battery 1 Power cable
- 10 Disposable electrodes 1 Body surface temperature transducer User manual

ACCESSORIES - SPARES code Adult SpO₂ probe - spare Pediatric SpO₂ probe 35135 35136 35137 ECG cable - spare 35138 Li-ion battery - spare 35140 NIBP cuff - arm circumf. 10-19 cm - pediatric NIBP cuff - arm circumf. 18-26 cm - pediatric XL 35142 NIBP cuff - arm circumf. 21-35 cm - adult - spare NIBP cuff - arm circumf. 27-42 cm - adult XL 35139 35143 TECHNICAL SPECIFICATIONS

35%-100% 0.4%-5% 70%-100% ±3%

30bpm-250bpm

≤10s

>89 dB

±0.4 mVp - ±5 mVp

NIBP Monitoring Measuring method: Initial cuff inflation pressure: Overpressure protection limit: Measuring range Systolic pressure: Diastolic pressure: Mean arterial pressure: Measurement accuracy: Measurement mode:

Automatic measuring: 1-240min

TEMP Monitoring
Measuring range, accuracy: 25.0 - 45.0 °C, ±0.2°C

SpO, & Pulse Rate Monitoring

Transducer: dual-wave length LED SpO₂ measuring range: Low perfusion capability: SpO₂ display accuracy: PR measuring range: PR measuring accuracy: ECG Monitoring

Heart rate measurement: Heart rate display range: Display accuracy*: Heart rate alarm delay time: Sensitivity selection: Sweeping speed: Common-mode rejection ratio:

Frequency response: RESP Monitoring

Monitoring range, accuracy: RESP alarm range: RESP alarm range:
Other Technical Specifications
100 - 250 Vac, 50/60 Hz <80 VA Power supply: Networking port:

Automatic measurement by oscillating method Adult mode: <180mmHg infant mode: <120mmHg Adult mode: 300mmHg Infant mode: 240 mmHg

Adult: 40-225 mmHg Infant: 40-200 mmHg Adult: 20-215 mmHg Infant: 20-165 mmHg Adult: 10-195 mmHg Infant: 10-150 mmHg Systolic ±10% Diastolic ±10% MAP ±10% Manual, Auto, STAT

Wide option of screen views available

20 - 250bpm views availa ±1% or ± 2 bpm, whichever is greater Auto, ×1/2, ×1, ×2, ×4 12.5 mm/s, 25 mm/s, 50 mm/s

tolerance: ≤5% tolerance: ≤10%

0 - 120 rpm, $\pm 5\%$ or 2 rpm, whichever is greater 0 - 100 bpm $\pm 10\%$

serial/Net port

Monitoring mode: 0.5 - 40 Hz Diagnostic mode: 0.05 - 75 Hz

■ UP 7000 MULTI-PARAMETER PATIENT MONITOR





- 3 channel ECG amplification
- arrhythmia analysis and ST segment analysis
- up to 800 groups parameter data & 24-hour ECG waveform storage and recall
- 480-hour graphic and tabular trends for all parameters
- 7 trace ECG waveforms simultaneous display
- protection against interference from defibrillator
- adult/pediatric measurement modes
- visual and audible alarms
- built-in rechargeable battery
- built-in thermal printer
- multilanguage internal software: GB, FR, IT, ES, PT, PL, CZ, TR, RU, CN

GIMA code	ACCESSORIES AND SPARES							
35135	Adult SpO ₂ probe							
35136	Pediatric SpO, probe							
35137	ECG cable							
35140	NIBP cuff - arm circumf. 10-19 cm - pediatric							
35142	NIBP cuff - arm circumf. 18-26 cm - pediatric XL							
35139	NIBP cuff - arm circumf. 21-35 cm - adult							
35143	NIBP cuff - arm circumf. 27-42 cm - adult XL♥							
35126	Lead acid rechargeable battery - spare 35150							
35141	Paper 5.1 cm x 12 m - box of 5							
35150	Trolley - adjustable 73 to 113 cm							
STANDARD ACCESSORIES								

- Re-chargeable battery - Adult SpO₂ probe - Disposable electrode

- Dust-protective mantle - NIBP adult cuff - Printer - Temperature probe - skin - Power supply cable - Manual (GB. IT)

- Temperature probe - rectal - ECG cable 5 leads (RA - LA - LL - PL - C)

TECHNICAL SPECIFICATIONS **NIBP Monitoring**

Measuring method: Oscillometric

Systolic pressure: Diastolic pressure: Mean arterial pressure: 40~255mmHg 10~220mmHg 20~215mmHg Measuring range: adult: 10~220mmHg pediatric: 10~110mmHg 40~200mmHg 20~165mmHg

TEMP Monitoring 25.0°C~45.0°C ±0.2°C Measuring range: ≤ 150 sec Response time:

SpO₂ & Pulse Rate Monitoring SpO₂ measuring range: 35

35%~100% 30bpm~240bpm ±2bpm PR measuring range:

ECG Monitoring Heart rate measurement: ±0.4mVp~±5mVp Heart rate display range: 20bpm~250bpm

RESP Monitoring
Measuring method: Thoracic impedance Monitoring range: 0rpm~120rpm,

Monitoring accuracy: ±5% or ±2rpm whichever is greater

Other Technical Specifications

100~250Vac, 50/60Hz Power supply:

Power consumption:

Display mode: 12.1 inches TFT color LCD Alarming mode: Networking port: Audible-visual alarm Ethernet port 29x31.5x15 cm - 3.9 kg

CMS 8000 CONTEC PATIENT MONITOR



• 35151 CMS 8000 PATIENT MONITOR ECG, RESP, SpO₂, PR, NIBP, DUAL CHANNEL TEMP

- 12.1" TFT colour LCD display
- multilanguage interface (GB, IT, FR, DE, ES, PT, NL, PL, CZ, TR, RO, RU)
- adult/pediatric/neonate measurement modes
- 8 channel waveform synchronous display
- 7 lead ECG waveform on one screen
- anti-motion, anti-ambient light interference digital SpO, technology
- AC/DC rechargeable lithium battery
- manual/AUTO/continuous NIBP measurement mode
- standard/OXY- graph/Trend-graph/big characters and view bed interfaces

GIMA code	ACCESSORIES AND SPARES
35149	Adult SpO ₂ probe - 3 m cable - spare
35107	Neonate SpO, probe <3 kg - reusable
35108	SpO, extension cable
35113	Pediatric NIBP cuff 18-26 cm
35114	Adult NIBP cuff 25-35 cm
35115	Adult large NIBP cuff 33-47 cm
35116	Thigh NIBP cuff 46-66 cm
35154	Rectal temp probe - optional Adjustable height 35158
35155	Skin temp probe - spare 104-130 cm
35156	ECG cable - spare
35157	Printer - optional
35158	Trolley
35159	Rechargeable lithium battery - spare
	Printer paper roll 50 mm x 20 m
	CTANDARD ACCECCODIEC

STANDARD ACCESSORIES

- Adult SpO₂ probe
- NIBP adult cuff
- NIBP extension tube

Method: oscillometry

Mode: manual/AUTO/continuous

Measurement interval in AUTO mode: 1/2/3/4/5/10/15/30/60/90/120/240/480/960 min

- Temperature probe skin
- Rechargeable lithium battery

- ECG cable

- power supply cable
- manual (GB, IT, ES) on request (PT, TR)
- ECG electrodes

TECHNICAL SPECIFICATIONS Measurement period in CONT mode: 5 min

ECG 5-lead, dual channel, 3-lead, single channel Scan speed: 12.5 mm/s, 50 mm/s ST segment monitoring Measurement and alarm range: -2.0 mV ±2.0 mV Method: R-F (RA-LL) impedance Measurement and alarm range: 0-150 rpm Apnea alarm: 10-40 sec NIBP

Measurement alarm: 10-270 mmHg SpO₂
Measurement and alarm range: 0-100%

Measurement accuracy: 70-100% ±2% Measurement and alarm range: 30-250 bpm

TEMP Channel: dual channel

Measurement and alarm range: 0-50 °C Power supply: 110-240 V - 50/60 Hz Safety classification: Classe I type CF Defibrillation-proof applied part

BM7 PREMIUM PATIENT MONITOR FOR INTENSIVE CARE



• 33774 BM7 MONITOR 12.1" touch screen LCD display - 7 channels Premium patient monitor for intensive care. Superior features:

- touch screen operation display

- individual sweep speed setting for each parameter
- 168 full hours of trend data storage
- 4-split large multiple display modes

- oxy/CRG

- drug calculation

screen freeze ON-OFF

- ST level analysis histogram

High performances:

- ECG, SpO₂, NIBP, Respiration, 2 Temp, 2 IBP Sidestream EtCO₂ optional
- 13 Arrhythmia analysis modes
- high performance Suntech NIBP
- Li-ion battery with longer life time (1.5 hrs continuous operation) - possibility to connect to BM central monitoring system see page 291
- 33725 CART adjustable height, basket included
- 33709 Li-ion BATTERY 11.1 V spare

Same accessories and probes as BM5 monitors, see page 292, 293.

5-lead patient Cable (MECA5 (AHA), MACE5 (IEC)) Flectrodes - box of 10 NIBP extension tube (3m) Reusable Adult Cuff (25-35 cm)

MONITOR

12.1" color TFT. 800x600 pixels 322x250x224.8 mm Display, Resolution Dimension Approx. 4.5 kg 6 waveforms: 2xECG, SpO₂, RR or Weight Trace

EtCO₂, 2xIBP

Sweep speed: 6.25, 12.5, 25, 50 mm/sec Categorized alarms (3 priority levels) Visual alarm lamp handle and heart beat tone QRS beep & SpO₂ pulse beep Indicators

SpO₂ pitch tone

SpO₂ pitch tone
Battery status, external Power LED
Touch screen, rotary knob
DC input connector: 18 VDC, 2.5 A
Defibrillator Sync. Output:
- Signal level: 0 to 5 V pulse Interfaces Connectors

- Pulse width: 100 ± 10 ms LAN digital output for

transferring data External VGA monitor connection

Battery Thermal Printer

DC output 5VDC. 1A Max
Rechargeable Li-ion battery,
1.5 hours continuous operation
nter Speed: 25, 50 mm/sec,
paper width: 58 mm
168 hours trends, 20 cases of Data Storage

10 sec alarm waveform
USB memory storage
Internal language (selectable) GB, FR, IT, ES, DE,
CZ, PL, PT, RO, BG, HU, TR, RU, CN, KR

Reusable Adult SpO₂ probe DC adapter (18 VDC, 2.5A)

Reusable Pediatric Cuff

SpO, extension cable (2m)

ECG Leads type Lead selection 3-lead, 5-lead 3-lead: I, II, III 5 lead: I, II, III, aVR, aVL, aVF, V 3-lead: 1 channel ECG waveform

TECHNICAL SPECIFICATIONS

5-lead: 2/7 channel Adult: 15-300 bpm Heart rate range

Neonate/pediatric: 15-350 bpm Heart rate accuracy ±1 bpm or ±1% wichever is greater 6.25, 12.5, 25, 50 mm/sec Sweep speed

Diagnosis: 0.05~120 Hz Monitoring: 0.5~40 Hz Moderate: 0.5~25 Hz Maximum: 5~25 Hz

S-T segment detection range -2.0 to 2.0 mV
Arrhythmia analysis ASYSTOLE, VTACH, VFIB,
BIGEMINY, ACCVENT, COUPLET,
IRREGULAR, PAUSE, PVC, RONT,
TRIGMINY, VBRADY, SHORTRUN
Pacemaker detection mode

Pacemaker detection mode

Indicator on waveform display (user selectable) Protection Against electrosurgical interference and defibrillation

RESPIRATION Method Thoracic impedance Channel selection RA-LA or RA-LL 5-120 breath per minute ±1 breath per minute Measurement range

Accuracy Apnea alarm 0 to 100%; (70 to 100% ±2% digits) SpO, range

Li-ion 11.1 V battery Thermal printer 2 paper roll User manual: GB, IT

Pulse rate range 0 to 254 bpm ±2 bpm NIBP SUNTECH

Method Oscillometry

Operation Mode manual / Automatic / Continuous Pressure measurement range 0-300 mmHg
Safety pressure: Adult: 300 mmHg
Neonate: 150 mmHg
Measurement range: Adult pressure: 20 to 220 mmHg
Measurement range: Pulse rate: 30-220 bpm
Pediatric pressure: 20-160 mmHg

Pulse rate: 30-220 bpm Neonate pressure: 20-130 mmHg Pulse rate: 30-220 bpm

Accuracy: The static pressure measurement is within ±3 mmHg Meets ANSI/AAMI SP 10 2002

TEMPERATURE

Measurement range: 10 to 45°C (59 to 113°F) ±0.1°C Compatibility IBP YSI SERIES 400 temperature probes

Channels

Measurement range: -50 to 300 mmHg

Accuracy <100 mmHg ±1 mmHg
>-100 mmHg ±1% of reading

Pulse rate measurement range 0 to 300 bpm

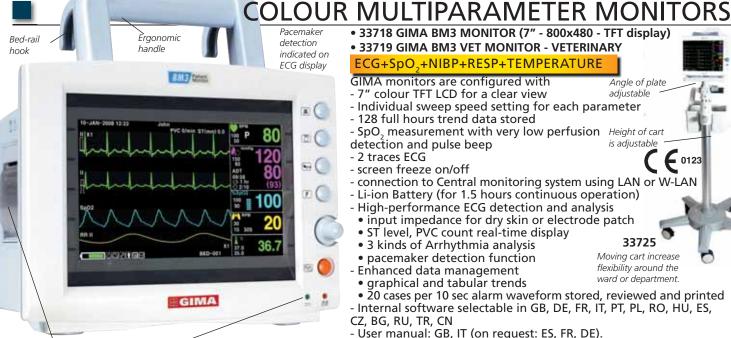
Zero balancing Range: ±200 mmHg

Accuracy: ±1 mmHg Drift: ±1 mmHg of over 24 hours

Transducer sensitivity: 5 μV/mmHg Pulse rate measurement range: 0 to 300 bpm

BM1, BM3, BM5, BM7 MONITOR ACCESSORIES

GIMA code		ACCESSORIES FOR BM1, BM3, BM5, BM7			33736
33738 33735 33736 32848 33737 32810 32811 33739	NIBP	Extension cable, 3 m (necessary for all cuffs) Adult cuff - 49x15 cm - need ext. cable 33738 Child cuff - 35x11 cm - need ext. cable 33738 Obese cuff 62x75.5 - need ext. cable 33738 Kit of 3 neonatal cuffs* - needs cable 33738 Mini cuff 16x5 cm - needs 33738+33739 Mini cuff 23x5 cm - needs 33738+33739 Metal connector (necessary for mini cuff)	U	33735 32810	32811
33771	Temp	Temperature sensor 3.0 m, skin type Compatible with Drager MM15114, MM15822, GE 21733601, Philips HP21059B, Nihon Kohden P242A, Datascope 0206-02-0003 Temperature sensor 3.0 m, rectal type	33738		
33743	Paper	Thermal paper 57.5 mm, 38 Ø		33771	33772
33742 33715 33717 33798 33710 33709	Battery	Ni-MH 12V battery - up to january 2006** - BM3, BM3 Plus Ni-MH 12V battery - Since january 2006** - BM3, BM3 Plus Li-ion battery - Since Sept. 2007** - new BM3, Plus, BM5 Li-ion battery 11.1 V - 6 cell for EtCO ₂ - for 33782 only Li-ion battery 11.1 V for BM1 Li-ion ba ttery 11.1 V for BM7 AC adapter for BM3, BM5, BM7	33742	33715	33717



Battery status indicator

- continuous operating

time 1.5 h

• 33718 GIMA BM3 MONITOR (7" - 800x480 - TFT display)

• 33719 GIMA BM3 VET MONITOR - VETERINARY

ECG+SpO₃+NIBP+RESP+TEMPERATURE

GIMA monitors are configured with - 7" colour TFT LCD for a clear view

Angle of plate adjustable - Individual sweep speed setting for each parameter

- 128 full hours trend data stored

- SpO₃ measurement with very low perfusion Height of cart detection and pulse beep

- 2 traces ECG

- screen freeze on/off

- connection to Central monitoring system using LAN or W-LAN

- Li-ion Battery (for 1.5 hours continuous operation)

- High-performance ECG detection and analysis

• input impedance for dry skin or electrode patch

• ST level, PVC count real-time display

• 3 kinds of Arrhythmia analysis

pacemaker detection function

Enhanced data management

graphical and tabular trends

• 20 cases per 10 sec alarm waveform stored, reviewed and printed - Internal software selectable in GB, DE, FR, IT, PT, PL, RO, HU, ES,

CZ, BG, RU, TR, CN

- User manual: GB, IT (on request: ES, FR, DE). • 33725 CART Adjustable height, basket included

See temperature sensors, cuffs, batteries and accessories at page 290, 293



Direct connection of external monitor through optional card



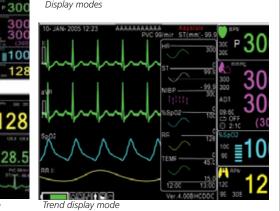


58 mm built-in printer for

(Speeds: 25-50 mm/sec)

both real time and trend date

Easy mounting with bed-rail hook



PATIENT CENTRAL SYSTEM (up to 31 monitors)

It allows the user to monitor and extract the exact status of several patients simultaneously at a place. Convenient bidirectional communication allows you to admit new patient information, set alarms at either central station or patient monitor.

33745 WIRE CENTRAL SYSTEM

(PC, monitor, 16 port switch and software) • 33746 LAN CABLE - 3 m

• 33767 LAN CABLE - 30 m

One for any monitor to be connected. Customized cable length on request.

33758 WIRELESS CENTRAL SYSTEM

(PC, monitor, wireless router and software)

 33759 WIRELESS CONNECTION KIT Ethernet converter and power cable One for any monitor to be connected.

GENERAL

Display: Dimensions - Weight:

Large parameter display mode

ST analysis display mode

Indicators

Thermal printer: Battery:

Interfaces:

Operating voltage: Data storage: **ECG** Lead type:

Lead selection:

Heart rate range:

Heart rate accuracy: Sweep speed:

7" colour TFT 800x480 pixels 238x250xh 163 mm - 3.1 kg 4 waveforms: 2*ECG, SpO₂, Respiration Sweep speed: 6.25, 12.5, 25, 50 mm/sec Categorized alarms (3 priority levels) Visual alarm, QRS beep & SpO, Pulse beep Percent (%) SpO₂ pitch tone, Battery status, Enternal Power LED 25, 50 mm/sec (paper width 58 mm) Rechargeable Li-ion battery
Operating time: 1.5 hours (fully charged)
LAN digital output for transferring data DC input connector: 18 VDC, 2.5 A max 100-240 V, 50-60 Hz 128 hours trends, 20 cases of 10 sec alarm waveform

3-lead, 5-lead (option) 3-lead I, II, III 5-lead I, II, III, aVR, aVL, aVF, V (option) Adult: 30 to 300 bpm,

Neonate/Pediatric: 30 to 350 bpm ± 1bpm or ± 1%, whichever is greater 6.25, 12.5, 25, 50 mm/sec

Diagnosis: 0.05 to 150 Hz - Monitoring: 0.5 to 40 Hz Moderate: 0.5 to 25 Hz - Maximum: 5 to 25 Hz

S-T segment detection range: -2.0 to 2.0 mV

TECHNICAL SPECIFICATIONS Arrhythmia analysis:

Pacemaker detection mode:

Protection:

SpO₂ % Saturation Range: Pulse rate range: NIBP Technique: Measurement Modes:

Pressure range: Measurement range:

Method: Range: Accuracy Apnea álarm: Temperature Unit Range: Accuracy Compatible with:

Respirations

ASYSTOLE, VTACH, VFIB Indicator on waveform display (user selectable) Against electrosurgical interference and defibrillation



0123

33725

Moving cart increase flexibility around the

ward or department.

0% to 100% ± 2 digits (70% to 100%) 30 to 254 bpm ± 2 bpm

Oscillometric Manual/automatic/continuous O to 300 mmHg ±3 mmHg Adult pressure: 20 to 260 mmHg Pediatric pressure: 20 to 230 mmHg Neonatal pressure: 20 to 120 mmHg

Thoracic impedance 5 to 120 breath/min ± 1 breath/min

0° to 50°C (32°F to 122°F) \pm 0.1°C (25°C to 50°C), \pm 0.2°C (0°C to 24°C) YSI Series 400 Temperature Probes

BM5 MULTIPARAMETER MONITOR WITH EXTENDIBLE PARAMETERS

ECG+SPO₃+NIBP+RESP+ 2 TEMP

optional 2 IBP + ETCO, MODULE

((0123

• 33777 GIMA BM5 MONITOR - 10.4" TFT display - 7 ch ECG • 33779 GIMA BM5 VET MONITOR - 10.4" TFT display

high-performance ECG analysis

ST level PVC count display 13 kinds of Arrhythmia analysis

7 channels - 10.4" colour TFT screen with 6 waveforms

visible alarm lamp handle

- SpO₂ technology with very low-perfusion detection

- SpO₂ pitch tone

- 58 mm built-in chart recorder

graphical and tabular trends of printing

- ĽAN or wireless LAN

- 128 full hours trend data stored

direct DC input for vehicle transportLi-ion battery with long life time

- connection to central monitoring system

- selectable software language (GB, DE, FR, IT, PT, PL, RO, HU, ES, CZ, BG, RU, TR, CN). Standard accessories as BM3 monitor, page 291. Other accessories page 290-293.

GIMA code	TEMPERATURE, EtCO ₂ AND IBP KIT
33771	Temperature sensor 2.75 m - skin type
33772	Temperature sensor 2.75 m - rectal
33741	Exacon temperature sensor 2.75 m - rectal
33796	EtCO ₃ Sidestream module for 33714, 33777/8/9
33790	Intubated Filter Line H - adult - box of 10 for 33796
33791	Intubated Filter Line H - infant - box of 10 for 33796
33792	Non intubated CO, nasal cannula - adult - box of 10 for 33796
33793	Non intubated CO, hasal cannula - pediatric - box of 10 for 33796
33794	Non intubated CO.+O. nasal cannula - adult - box of 10 for 33796
33795	Non intubated CO ₂ +O ₂ nasal cannula - pediatric - box of 10 for 33796
33786	Single line monitoring kit (catheter)
33787	IBP Kit - disposable - single
33788	IBP Kit - reusable (not autoclavable) - single
33789	IBP Kit - reusable (not autoclavable) - double



TÜV GIMA Arrhytmia analysis: VTAG, VFIB, ASYSTOLIC Pacemaker detection 33777 indicated on the ECG waveform display

33790 Airway adapter set with dehumidifi-cation tubing for 33792 CO₂ nasal cannula intubated adult adult Suitable also for VET (dog, horse)

33791

Infants Suitable also for VET (cat, puppy)

33794CO₂+O₂ nasal cannula - adult

Visible alarm

lamp handle







TECHNICAL SPECIFICATIONS FOR MONITOR 33777 - 33779

Dimensions/Weight: 270x185xh 250 mm/4 kg 6 waveform (ECGx2, SpO₂, RR or EtCO₂ IBPx2) categorized alarms (3 priority levels), Indicators: visual alarm lamp handle, heart rate, SpO₂ pulse pitch tone battery status, external power LED Thermal printer: 25, 50 mm/sec (paper width 58 mm) Li-ion (2 hours operating time)
LAN digital output for transferring data Interfaces: Nurse call system connection

defibrillator sync. output DC input connector: 12 to 18 VDC, 2.5A max Operating voltage: 100-240 V, 50-60 Hz SpO₂ % Saturation Range: 0% to 100%

Pulse Rate Range: SpO. Accuracy: Pulse Rate Accuracy: **ECG**

GENERAL

0 to 254 bpm 70% to 100% ±2 digits

3-lead, 5-lead (33777), 10-lead(33779) 3-lead: I, II, III (33777/79) Lead selection:

10-lead: I, II, III aVR, aVL, aVF, V1, V2, V3, V4, V5, V6

(33779 only)

ECG Waveforms

3-lead 1 channel (33777/79) 5-lead: 3/7 channels (33777/79) 10-lead: 3/12 channels (33779 only)

Neonate/pediatric: 30-350 bpm ± 1 bpm or ± 1%, wichever is greater 6.25, 12.5, 25, 50 mm/sec. Heart rate accuracy:

Sweep speed: Filter:

S-T Segment detection range: - 2.0 to 2.0 mV Arrhythmia analysis:

Diagnostic analysis: Pacemaker detection mode:

Protecion: against electrosurgical interference and defibrillation

Technique: Measurement Modes:

Cuff pressure display: B.P. measurement range:

Measurement range:

Oscillometric with linear deflation Manual-Automatic-Continuous Adult pressure: 20 to 260 mmHg Pediatric pressure: 20 to 230 mmHg Neonate pressure: 20 to 120 mmHg 0 to 300 mmHg Systolic: 40 to 270 mmHg Mean: 20 to 230 mmHg

Asystole, Vtach, Vfib, Bigeminy, Accvent Couplet, Irregular, Pause, Pvc, Ront, Trigeminy, Vbrady, Shortrun 120 kinds (33779 only)

Diagnostic mode: 0,67-150 Hz

Monitoring mode 0,67-40 Hz Surgical mode: 5-25 Hz

Indicator on waveform display (user selectable)

Diastolic: 10 to 210 mmHg

Adjustable Cuff Inflation Pressure

Respirations

Range: Accuracy: Apnea álarm: Temperature Unit

Range: Accuracy Compatible with: Channels:

Measuring range: Measuring accuracy:

Pulse rate counting range: Zero balancing:

Transducer sensitivity: EtCO₂ - option Measurement mode: Measurement range: Respiration range: Accuracy:

Respiration accuracy:

5 to 120 breaths/min ±1 breath/min ves

15° to 45°C (59°F to 113°F) YSI Series 400 Temperature Probes

-50 to 300 mmHg ± 1 mmHg (<100 mmHg) ± 1 % of reading(>100 mmHg) 0 to 300 beats/min range ± 200 mmHg

accuracy ± 1 mmHg drift ± 1 mmHg over 24 hours 5µV/V mmHg

Sidestream 0~150 mmHg, 0 to 19% 2~150 bpm

± 2 mmHg, 0~40 mmHg ± 5%, 41~70 mmHg ± 8%, 71~100 mmHg ± 10%, 101~150 mmHg

± 1 breath per minute

BM1: SLIM AND LIGHT MONITOR WITH STRONG MOBILITY

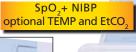
• 33714 GIMA BM1 MONITOR SpO₃+NIBP optional Temp. and EtCO,

Professional multiparameter monitor in compact size:

- only 60 mm (2.36 inch) thick and 1.0 kg (2.2 lb)
- easy mounting to an IV pole
- 4.5 hours battery operation (rechargeable Li-ion)
- top handle and rear grip
- monitoring mode and spot check mode
- 4.3" color TFT monitor for clear view 480x272 pixels
- touch key and wheel navigation
- external VGA output for large LCD monitor (option)
- saves 128 hours trend and 400 cases
- multilanguage selectable software (GB, FR, IT, ES, DE, PL, PT, RO, BG, HU, CZ, RU, TR, CN, KR)
- highly advanced CO₂ monitoring technology

- plug and play EtCO₂ module Same accessories of BM line. SpO₂, TEMP, EtCO₂, NIBP technical specifications same as BM5.

• 33710 Li-Ion RECHARGEABLE BATTERY - spare

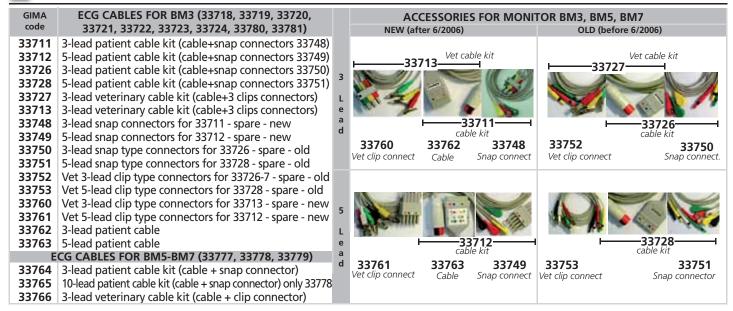


Supplied with NIBP adult cuff (25-35 cm) 3 m extension hose, SpO2 adult finge probe with extension cable (2 m) DC adapter (15 VDC, 2.0 A) pole mount bracket, shoulder strap, rechargeable battery

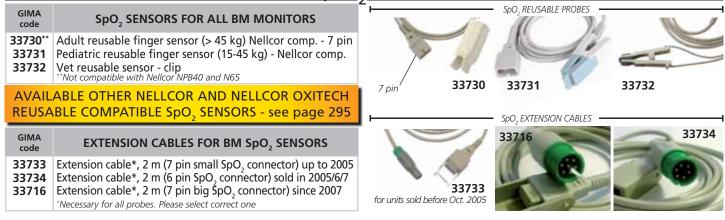




IECG CABLES FOR BM GIMA AND BIONET MONITORS



BM1, BM3, BM5, BM7 SpO₂ SENSORS - NELLCOR COMPATIBLE



NELLCOR COMPATIBLE DISPOSABLE SpO, SENSOR







Nellcor compatible connector

GIMA code	NELLCOR COMPATIBLE DISPOSABLE SpO ₂ PROBES (not compatible with Nellcor Oximax)
33755	Disposable neonate/adult probe
	- under 3 kg (neonate foot) - over 40 kg (adult finger)
33756	Disposable infant probe - 3-20 kg
	Disposable pediatric probe - 10-50 kg
	Disposable adult probe - over 30 kg

GME-N/A 33755 33754 - OME4 33756 **∮** GME-P 33757 TECHNICAL SPECIFICATION SpO, SENSORS

Range of SpO₂ measurement: 70%~100% Accuracy: 70%~100% ±2%; below 70%: unspecified Range of pulse measurement: 30~250 bpm Accuracy: ±2 bpm of 2% (select larger)

red light (wavelength is 650~670 nm, 6.65 mW) Optical Sensor: infrared (wavelength is 880~910 nm, 6.75 mW)

WRIST OXIMETER

• 34340 WRIST PULSE OXIMETER - with software Small and lightweight wrist Oximeter available for home and clinical long-term and comfortable monitoring. It can be simply worn on the patient's wrist as a watch to start the monitoring and can be used during sports to measure SpO₂ and pulse rate (PR).
- audible and visual alarm with adjustable alarm limits

trend review function of SpO₂ and PR

- selectable storage modes: 1 group/1s, 1 group/4s, and 1 group/8s
- up to 500 hours storage for SpO, and PR data in default mode (1 group/8s) clock setting and date display function
- software to download and store all measurements on PC integrated
- removable finger probe
- not suitable for pediatric use



PC-300 SPOT CHECK BLUETOOTH MONITOR



	0,000 Nibi Tileasures	
GIMA code	PC-300 ACCESSORIES	
35164 35165	SpO ₂ pediatric probe - optional SpO ₂ adult probe - spare	35165
35166 35167	NIBP pediatric cuff 10-19 cm - with extension cable - optional NIBP adult cuff 22-30 cm - spare	35167
35170 35171	Ear infrared thermometer Ear probe cover - box of 500	35170
35172	Lithium battery - spare	
PC	C-300 ACCESSORIES: glucose and ECG (optional)
23890	Glucose monitor On Call Plus II* - IT, GR	23890
23891	Glucose monitor On Call Plus II* - GB, FR	
23892	Glucose monitor On Call Plus II* - ES, PT	
23895	Glucose monitor Kit On Call Plus II* - IT, GR	
23896	Glucose monitor Kit On Call Plus II* - GB, FR	126
23897	Glucose monitor Kit On Call Plus II* - ES, PT	135
23910	Glucose strips - box of 25	CUID
23912	Glucose strips - box of 50	-
23913	Glucose strips - box of 100	
35176	Glucose monitor USB cable	25470
35178 33248	ECG module** needs 33248 ECG pin lead cable 3 leads	35178
		0

PC-300 handheld Spot-check monitor measures SpO₂, Pulse Rate, NIBP and TEMP. Widely used in hospitals, clinics and

family daily measurement. Equipped with Bluetooth and USB interface, allows to transfer data to PC, tablets and smartphone (Android and iOS).

- up to 6000 groups NIBP data storage, up to 100 different patients (each user can store 999 measurement records)

quick ear probe TEMP measurement result in 5 seconds data transfer to PC/Smartphone by USB or Bluetooth

optional NIBP pediatric cuff and SpO₂ pediatric probe optional ECG and Glucometer

built-in rechargeable lithium battery communication protocols available on request

STANDARD ACCESSORIES

SpO₂ adult probe NIBP adult cuff

Ear thermometer (probe covers not included) Lithium battery with charger

Carrying bag

User manual: GB, FR, IT, ES

TECHNICAL SPECIFICATIONS Measuring range: 35%-100%

Accuracy: ±3% (70-100%) **Pluse Rate** 30-240 bpm Measuring range:

Accuracy* ±2% or ±2 bpm (whichever is greater)

*Root-mean-square value of deviation according to ISO 1919 NIBP

Pressure range: 0-300 mmHg (0-39.9kpa) Accuracy:

±3 mmHa

Systolic pressure: 60-240 mmHa Measuring range: Diastolic pressure: 30-180 mmHg **TFMP**

Measuring range: 32-43.0°C

Accuracy: ±0.2°C (35-42°C) - ±0.3°C (other)

Measuring time: <5 s

ECG (Optional)

Heart Rate measuring range: 30-240 bpm

Heart Rate accuracy: ±2 bpm or ±2% whichever is greater

5.0 mm/mV ±10% Display scale: Common-mode rejection ratio (CMRR): ≥60 dB

Blood Glucose (Optional) Measuring range:

20 to 600 mg/DL

SEE other specification at page 5

Power Supply

Battery: 3.7 V built-in Li-ion battery

3.6-4.2 VDC Operating voltage: Operating current: <800 mA

100 - 240 VAC, 50/60 Hz, 5 VDC or USB Charger:

See glucose monitor accessories at page 5 Needs USB cable 35176 to connect to PC-300

See electrodes at page 277-278
"ECG module can be used without 3 leads cable in palm mode

PALM SAT® 2500A NONIN PULSE OXIMETER

• 35086 PALM SAT® 2500A PULSE OXIMETER with rubber reusable adult probe and alarm.

A compact versatile and reliable pulse oximeter designed and tested to exceed all durability requirements. Main features:

- Pure Sat® technology offers accuracy & speed in getting a reading, even with varying skin pigmentations or polish and is able to monitor, with declared accuracy in challenging conditions, such as motion & low perfusion, for all patients

- it is tested to assure performance in challenging conditions, such as drop and liquid ingress (IPX 2). Granted by US Army/Air Force Aeromedical certification

It also features: audible and visual alarms, 72 hour memory, long battery life (60 hours) or rechargeable battery for 40 hours Supplied with multilanguage cd-rom manual: GB, FR, IT, DE, ES, PT, GR, NL, PL, NO, FI, DK, SE.

TECHNICAL SPECIFICATIONS

0% to 100% ±2 (70-100% without movement) SpO2 range: Pulse rate range: 18 to 321 bpm ±3 (18-300% without movement) 4AA alkaline batteries 1.5 V (for 60 hours use) Power: optional NiMH rechargeable battery (for 40 hours use) Size: 7x13.8x3.2 cm Weight: 213 g

GIMA code	ACCESSORIES SAT 2500
35087	Adult reusable rubber probe (12.5-25.5 mm) - 1 m cable
35088	Pediatric reusable rubber probe (10-19 mm) - 1 m cable
35089	Charger stand with NiMH battery pack, plug kit
35082	NVISION software for data management (GB)
35083	Adaptor for USB - PC connection



35162