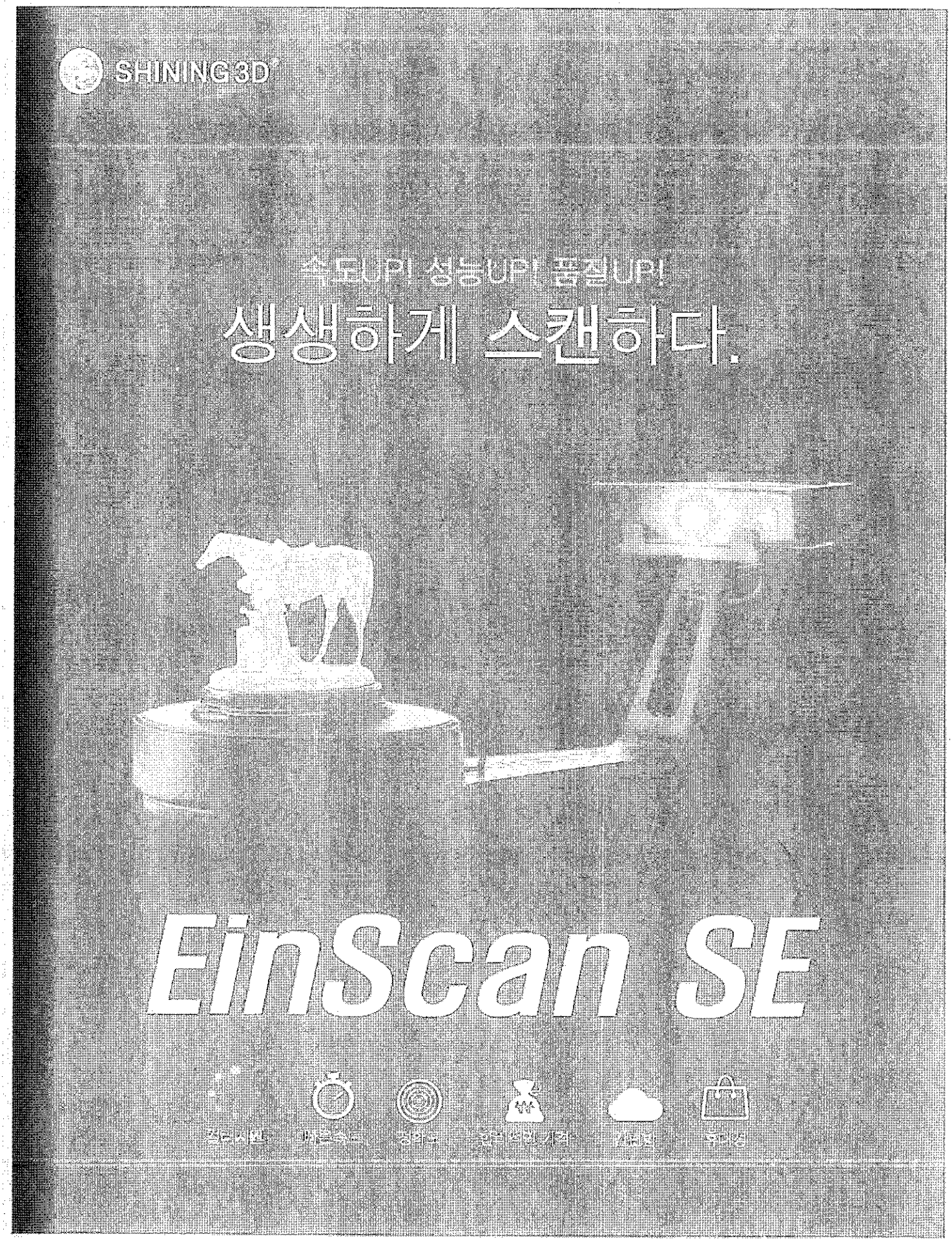
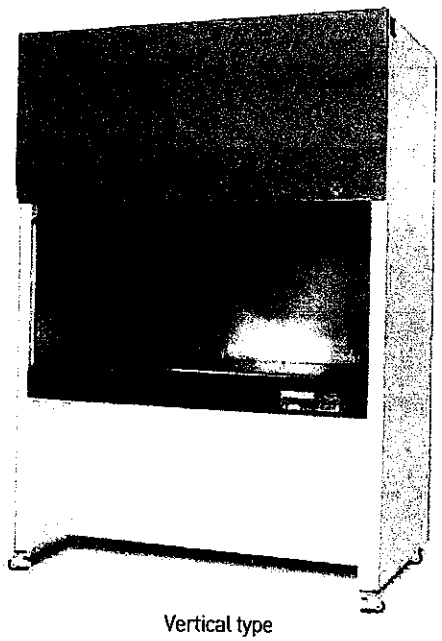

SHINING 3D
속도UP! 성능UP! 품질UP!
생생하게 스캔하다.
EinScan SE

SPECIFICATION

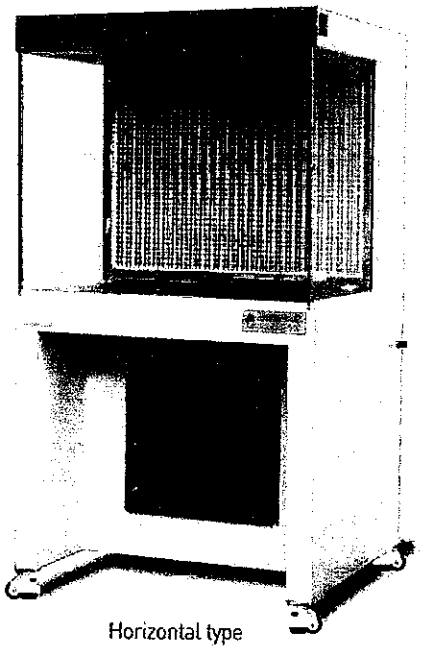
1	Model	EinScan-SE
2	Scan Mode	Fixed Scan, Auto Scan
3	Mode of Alignment	Feature : Manual Turntable : Manual
4	Single Shot Accuracy	≤0.1 mm
5	Minimum Scan Volume	30 x 30 x 30 mm
6	Maximum Scan Volume	700 x 700 x 700 mm, 200 x 200 x 200 mm
7	Range of Single Capture	200 x 150mm
8	Scan Speed	<8s, <2mins
9	Point Distance	0.17 mm~0.2 mm
10	Texyure	Yes
11	File Format	OBJ, STL, ASC, PLY
12	Camera Resolution	1.3Mega Pixels
13	Light Source	White Light
14	Stand-off Distance	290~480 mm
15	Computer Requirements	Nvidia series Graphic memory > 1G 1 x USB 2.0 or 3.0 Win 7, Win 8, Win 10 (64bit) Dual-core i5 or higher > 8G
16	Weight (unpacked)	2.5kg

크린벤치(수직형, 수평형) Clean bench (Vertical, Horizontal type)

본 기기는 청정작업이 필요한 의학, 제약, 식품, 농업, 신소재, 전자업계, 실험실 및 배양실 등 여러 산업분야에서 널리 사용되어지는 장비로서 국부적으로 완전히 깨끗한 환경을 얻기 위해 사용하는 장비이며 무균작업장에 필요한 Sterile zone을 제공합니다.



Vertical type



Horizontal type

특 징

- 집진효능 : Main filter인 HEPA filter(99.97% efficient on particle of 0.3㎛)를 부착시켜 먼지(dust)에 대한 고단위의 집진 능력을 발휘합니다.
- HEPA filter를 교환할때는 뒷면을 열고 쉽게 탈부착할 수 있습니다.
- 형광등이 설치되어 있어 밝은 상태의 작업환경을 제공합니다.
- 살균등 설치 : 작업대 및 벽면 뒤 공기통로에 UV lamp가 부착되어 작업대 및 공기통로를 살균합니다.
- 기기 하부에는 바퀴를 부착하여 이동이 편리합니다.

규 격

Model		J-CBWV1	J-CBWV2	J-CBWH1	J-CBWH2
Type		Vertical type		Horizontal type	
Overall size(W×D×H)	mm	880×850×1,945	1,340×850×1,945	880×820×1,670	1,340×820×1,670
Inner size(W×D×H)	mm	780×630×720	1,240×630×720	780×570×660	1,240×570×660
Main control		Full digital microprocessor control with membrane touch type		Switch type	
Main filter		HEPA filter(99.97% efficient on particle of 0.3㎛)			
Filter efficiency(purity)		Class 100			
Pre filter(Nylon)		No		Yes	
FL lamp	W	20×2ea	40×2ea	20×1ea	40×1ea
Germicidal lamp(UV)	W	20×2ea	40×2ea	20×1ea	40×1ea
Fan motor	Hp	1/4	1/2	1/4	1/2
Air flowing volume	㎥/min	16	32	16	32
Velocity	m/sec	0.5 ± 0.2			
Utility	socket	AC 220V 1ea		AC 220V 1ea	
	gas cock	1ea		No	
Window		Reinforced glass 5T		Polycarbonate	
Material	working table	Stainless steel plate			
	cabinet	Steel plate with powder coated finish			
Power source & consumption		AC 220V 60Hz 1phase 1.4A	AC 220V 60Hz 1phase 2.3A	AC 220V 60Hz 1phase 1.4A	AC 220V 60Hz 1phase 2.3A

※ 상기 사양은 무부하상태에서의 성능이며, 성능향상을 위하여 디자인과 내부구조는 변경될 수 있습니다.
※ Option : 풍속(풍량) 조절기능(0.3~0.5m/sec) 및 timer 기능(100hrs)부착 가능합니다. J-CBWH series 전면 Cover.

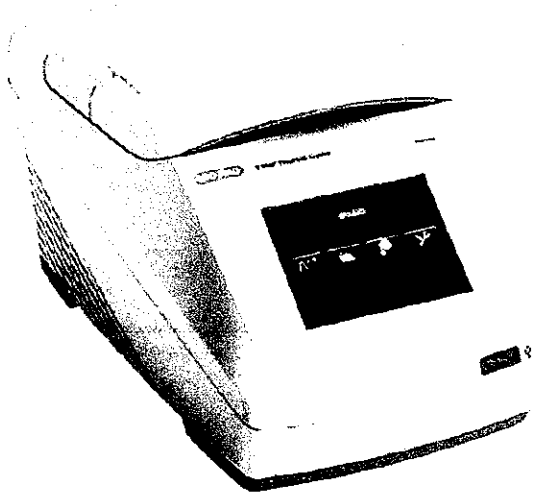
T100™ Thermal Cycler

Specifications

Amplification Bulletin 6060

The T100 thermal cycler is the smart choice for your amplification needs. This modern and compact 96-well PCR instrument offers comprehensive features that make running PCR easier than ever. Start a PCR run or incubation in seconds. Manage your PCR protocols using the large, designed-for-simplicity, color touch-screen user interface. If protocol optimization is required, determine your optimal annealing temperature in a single run using the thermal gradient feature.

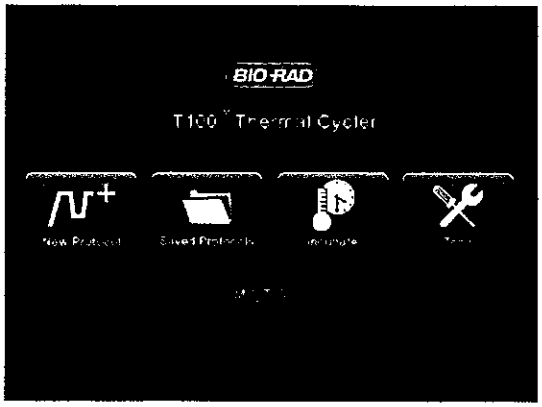
- Save time programming with the intuitive touch screen
- Get superior results faster by optimizing your PCR assays in a single run using a thermal gradient
- Save valuable benchspace with the compact design
- Keep your protocols organized using personalized folders or a USB flash drive
- Be confident in your results with the reliability you expect from Bio-Rad



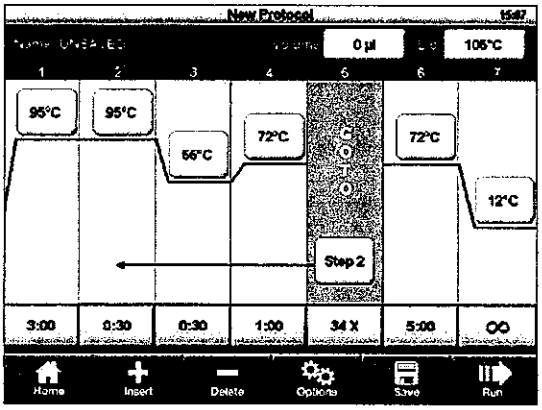
Specifications

Thermal Cycler	
Input power	100–150 VAC, 50–60 Hz; 220–240 VAC, 50–60 Hz; 700 W maximum
Display	5.7 in. VGA color touch screen
Port	1 USB A
Fuses	Two 10 A, 250 V, 5 x 20 mm
Memory	500 typical programs onboard; unlimited with USB flash drive expansion
Dimensions (W x D x H)	26 x 47 x 23 cm (10 x 18 x 9 in.)
Weight	9 kg (20 lb)
Temperature control modes	Calculated and block
PCR license	Yes
Programming options	Step-based graphical
Reporting	Exportable run logs, system logs
Instant incubation	Yes
Performance	
Sample capacity	96 x 0.2 ml tubes, 0.2 ml tube strips, or 1 x 96-well plate
Maximum ramp rate	4°C/sec
Average ramp rate	2.5°C/sec
Temperature range	4–100°C
Temperature accuracy	±0.5°C of programmed target
Temperature uniformity	±0.5°C well-to-well within 30 sec of arrival at target temperature
Thermal Gradient	
Gradient capability	Yes
Gradient range	30–100°C
Temperature differential range	1–25°C

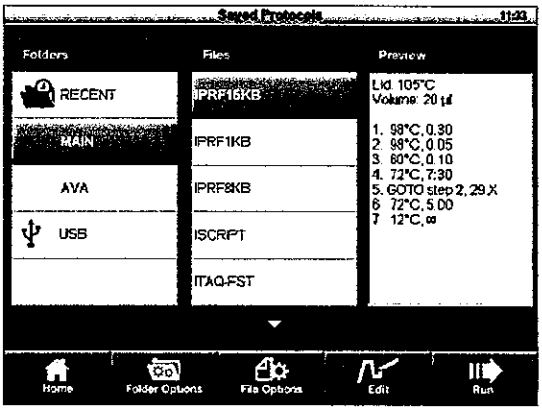
BIO-RAD



T100 thermal cycler Home screen.



Intuitive graphical programming. The thermal cycler's onboard software displays an editable thermal profile of the PCR protocol, making it easy to create and run new protocols.



Saved Protocols screen showing the preinstalled library of standard protocols in the MAIN folder.

Ordering Information

Catalog #	Description
186-1096	**T100 Thermal Cycler,** includes 96-well thermal cycler, power cord, T100 tube support ring
170-8870	**iTaq™ DNA Polymerase,** 5 U/µl, includes 250 U polymerase, 1.25 ml 10x PCR buffer (200 mM Tris-HCl, pH 8.4, 500 mM KCl), 1.25 ml 50 mM $MgCl_2$ solution
170-8890	**iScript™ cDNA Synthesis Kit,** 25 x 20 µl reactions, includes 5x iScript reaction mix, iScript reverse transcriptase, nuclease-free water
172-5301	**iProof™ High-Fidelity DNA Polymerase,** 2 U/µl, 100 U, includes 5x reaction buffers, $MgCl_2$ solution, DMSO
HSS-9601	**Hard-Shell® High-Profile 96-Well Semi-Skirted PCR Plates,** clear shell, clear well, 25
MLP-9601	**Multiplate™ 96-Well Unskirted PCR Plates,** clear, 25 plates
MSB-1001	**Microseal® 'B' Adhesive Seals,** optically clear, 100
TBS-1201	**12-Tube Strips without Caps (0.2 ml),** clear, 100 strips (1,200 PCR tubes)
TCS-1201	**Domed 12-Cap Strips,** for 0.2 ml PCR tubes and plates, clear, 20
TWI-0201	**PCR Tubes with Domed Caps (0.2 ml),** clear, 1,000

For more information, visit

www.bio-rad.com/web/T100Specifications.

Bio-Rad's thermal cyclers are covered by one or more of the following U.S. patents or their foreign counterparts owned by Eppendorf AG: U.S. Patent Numbers 6,767,512 and 7,074,367.

Practice of the patented 5' Nuclease Process requires a license from Applied Biosystems. The purchase of iProof and iTaq DNA polymerases includes an immunity from suit under patents specified in the product insert to use only the amount purchased for the purchaser's own internal research when used with the separate purchase of Licensed Probe. No other patent rights are conveyed expressly, by implication, or by estoppel. Further information on purchasing licenses may be obtained from the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

Hard-Shell plates are covered by one or more of the following U.S. patents or their foreign counterparts owned by Eppendorf AG: U.S. Patent Numbers 7,347,977; 6,340,589; and 6,528,302.

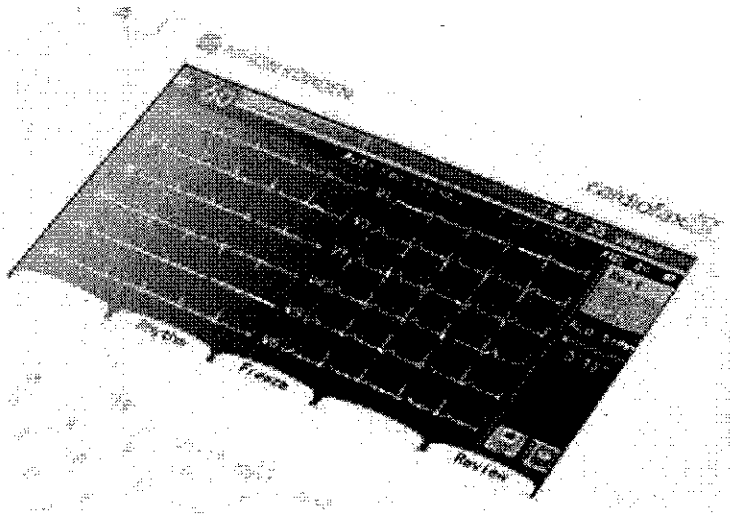
Bio-Rad Laboratories, Inc.

Life Science Group

Web site *www.bio-rad.com* ***USA*** *800 424 6723* ***Australia*** *61 2 9914 2800* ***Austria*** *01 877 89 01* ***Belgium*** *09 385 55 11* ***Brazil*** *55 11 3065 7550* ***Canada*** *905 364 3435* ***China*** *86 21 6169 8500* ***Czech Republic*** *420 241 430 532* ***Denmark*** *44 52 10 00* ***Finland*** *09 804 22 00* ***France*** *01 47 95 69 65* ***Germany*** *089 31 884 0* ***Greece*** *30 210 9532 220* ***Hong Kong*** *852 2789 3300* ***Hungary*** *36 1 459 6100* ***India*** *91 124 4029300* ***Israel*** *03 963 6050* ***Italy*** *39 02 216091* ***Japan*** *81 3 6361 7000* ***Korea*** *82 2 3473 4460* ***Mexico*** *52 555 488 7670* ***The Netherlands*** *0318 540666* ***New Zealand*** *64 9 415 2280* ***Norway*** *23 38 41 30* ***Poland*** *48 22 331 99 99* ***Portugal*** *351 21 472 7700* ***Russia*** *7 495 721 14 04* ***Singapore*** *65 6415 3188* ***South Africa*** *27 861 246 723* ***Spain*** *34 91 590 5200* ***Sweden*** *08 555 12700* ***Switzerland*** *026 674 55 05* ***Taiwan*** *886 2 2578 7189* ***Thailand*** *1800 88 22 88* ***United Kingdom*** *020 8328 2000*

cardiofax S

Electrocardiograph ECG-2250



Fighting Disease with Electronics

NIHON KOHDEN

Access to reliable di

Reliable and accurate diagnosis

Nihon Kohden's ECAPS12C ECG analysis program has over 200 findings and 5 judgment categories with detailed analysis. ECAPS12C can also detect Brugada-type ECG pattern.

ECG-2250 satisfies the IEC60601-2-51 standard for high accuracy signal processing, AC filtering, ECG measurement and ECG analysis. Noise is eliminated with less waveform distortion.

More accurate information supports faster diagnosis.

Reliable monitoring

The 7-inch backlit color LCD displays all 12-lead ECG waveforms and patient information on one screen clearly.

A lead detached message helps avoid re-testing, while the Help function shows which electrode is detached.

You can also preview the ECG waveforms and analysis result before recording.

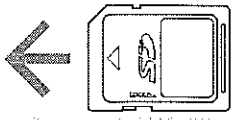
Reliable patient data management

The alphanumeric keyboard provides convenient data entry. You can also use a fast, error-free barcode reader or magnetic card reader.

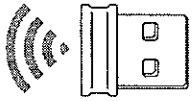
Up to 400 ECG files can be saved in the internal memory. Approximately 3,000 ECG files can be saved on one SD memory card.

Reliable data transfer

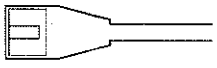
ECG data can be sent to a PC by SD memory card, wired or wireless LAN.



SD memory card

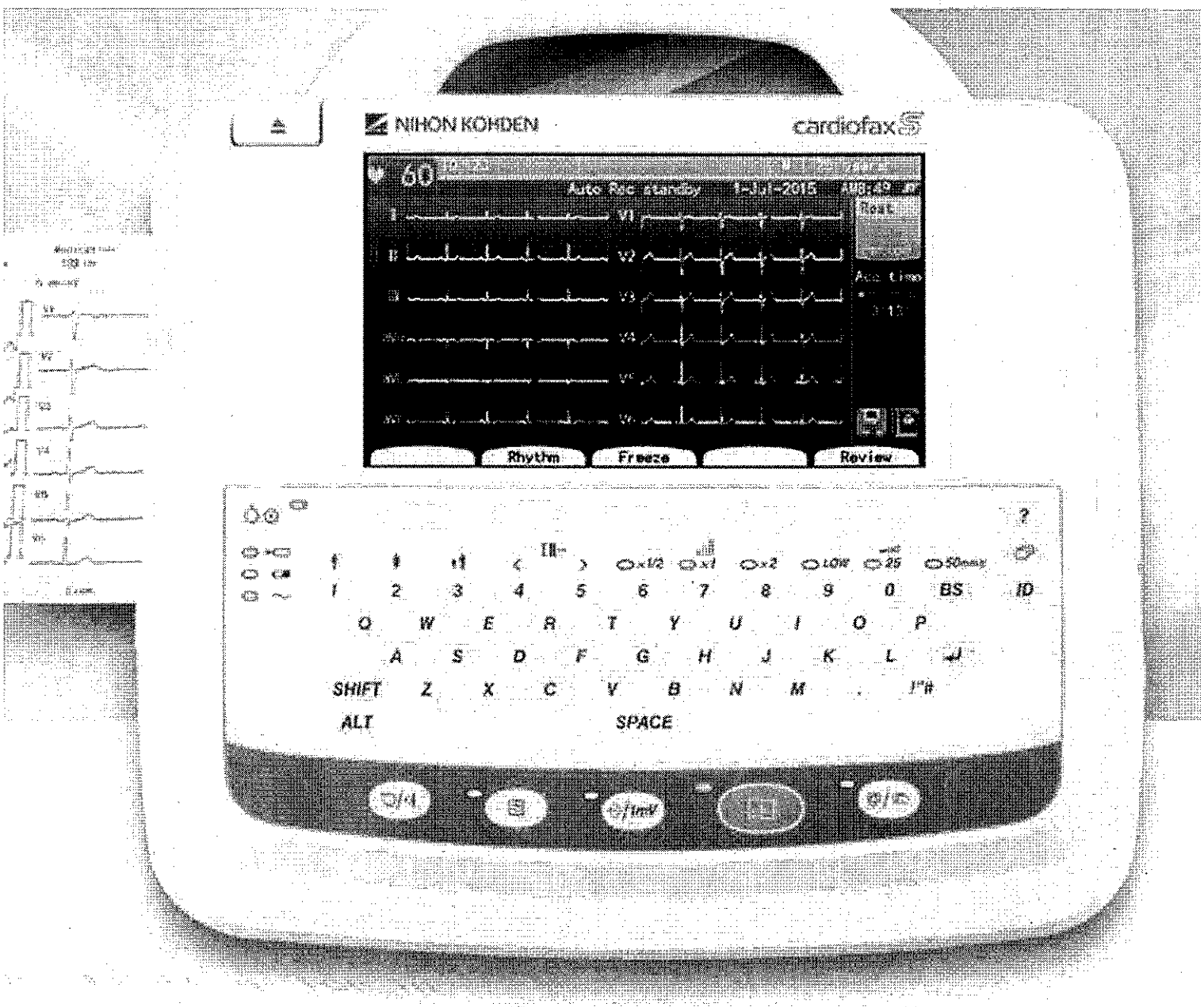


USB Wi-Fi adapter

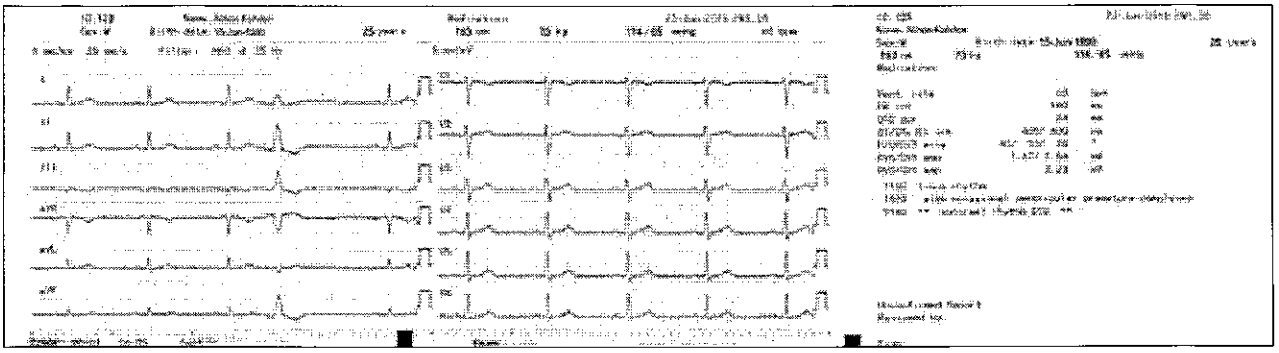


Wired LAN

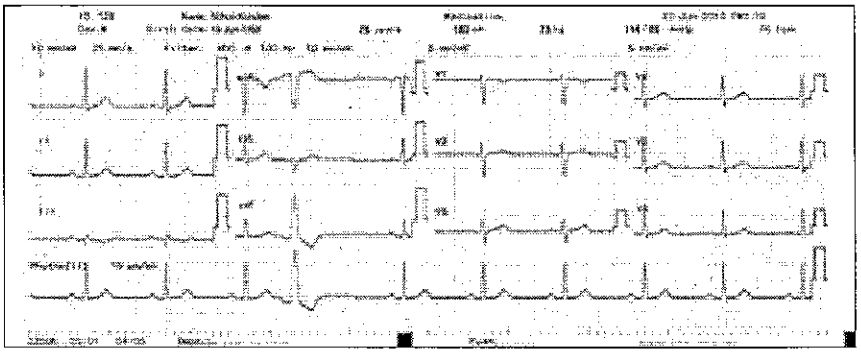
agnosis



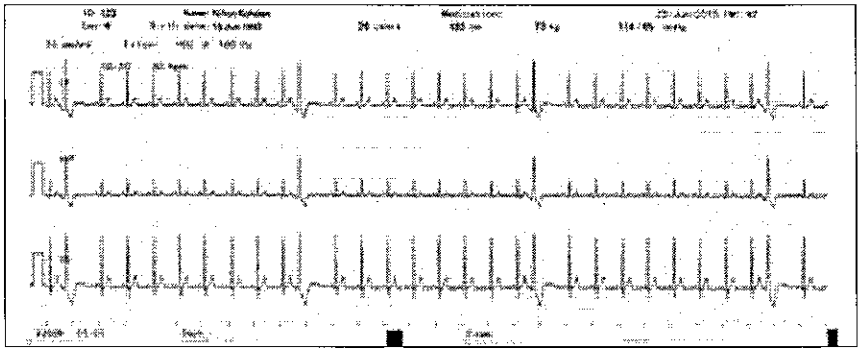
Recording Examples



12-lead ECG 6 traces, analysis results



12-lead ECG 3 traces, 1 channel rhythm recording



3 channel rhythm recording

Specifications

Dimensions	285 W × 102 H × 298 D mm
Weight	2.3 kg (without battery and recording paper)
Battery operation time	60 minutes
Display	7-inch color TFT LCD
Number of recording channel	3, 4, 6
Paper speed	5, 10, 12.5, 25, 50 mm/s
Recording paper	110 mm width
Safety and performance standards	IEC 60601-1: 2012, IEC60601-2-25: 2011

Major Options

- Cart, KD-105D/E
- Patient cable hanger, KH-100D
- SD memory card, QM-001D Y154D
- ECG Viewer software

Wi-Fi is a trademark of the Wi-Fi Alliance.
SD is a trademark of SD-3C, LLC.
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NIHON KOHDEN

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www.nihonkohden.com

8369 CAT.No.65-006 '15.08. SCR. C

Printed in Japan

국문 사양서

HS No.	Description	Model	Q'ty/Unit
9018.11-1000	Multi- channel Electrocardiograph	ECG-2250K	1 set

A. 특징

1. Compact body

:ECG는 콤팩트하고 경량이며 운반이 용이합니다. (A4사이즈, 배터리 포함 2.3kg)

2. Easy-to-view color LCD

: 밝은 백 라이트 컬러 LCD 로 보다 쉽게 데이터를 확인하실 수 있습니다.

3. 12 lead ECG simultaneous display

: 동시에 12 리드 심전도를 검토하여 더 나은 기록 및 효율성을 보장할 수 있습니다. 왜냐하면 기록하기 전에 파형을 확인하여 측정실패와 잘못 측정되는 것을 막아주기 때문입니다.

4. High level 12 lead ECG analysis

: CardiofaxM 은 니혼 코덴의 최신 해석 프로그램과 ECAPS12C 분석프로그램을 포함하고 있고, 최대 24 초의 동시 12 리드 DCG 획득을 제공하며, 약 200 개의 결과와 5 개의 판단 범주를 사용해 분석합니다.

5. Extended recording

: 부정맥이 감지되면 리듬 리드와 영향을 받은 리드에 대한 기록그룹을 자동으로 확장할 수 있습니다.

6. 1 minute rhythm, recording on A4 size format

: 리듬 리드 기록을 사용할 수 있습니다.
계단식 심전도는 1 분 동안 기록됩니다.
1 이나 3 채널 리듬 리드 기록을 선택할 수 있습니다.

7. Paper-saving recording

: 내장형 열 교환기는 110mm 용지에 6 개의 심전도 추적을 기록하여 뛰어난 비용 절감 효과를 주며, 파형 및 분석 결과를 PC 로 전송할 수 있습니다. (단, 옵션 심전도 뷰어 소프트웨어 필요).

8. Alphanumeric keys for data entry

: 환자 확인과 간편한 파일 작성을 위해, 숫자화된 환자 ID 와 함께, 영 숫자 키를 입력할 수 있습니다.

9. AC and battery operation

: 완전히 충전된 새 배터리 하나로 30 분 연속으로 기록할 수 있습니다.

10. Large data storage

: 최대 40 개의 심전도 파일을 내장 메모리에 저장할 수 있습니다. 약 3000 개의 심전도 파일을 64MB SD 카드 옵션으로 저장할 수 있습니다.

11. Easy data transfer by USB or wireless LAN

: SD 카드, USB LAN 또는 무선 옵션을 사용하여 심전도 데이터를 PC 에 전송할 수 있습니다. (LAN 카드를 통한 리뷰는 옵션으로 심전도 뷰어 소프트웨어를 사용하여 검토합니다.)

B. 사양

1. ECG Acquisition

-입력회로: 제세 동기의 방전에 대해 격리 및 보호 제공
(BJ-901D, BJ-902D or BA-901D is required)

- ECG 유도 : 12 유도
- 감도: 10mm/mV ± 2%
- 교정 전압 : 1mm/mV ± 2%
- 입력 임피던스 : ≥20MΩ
- Common mode 제거율 : ≥100dB
- E 전극 오프셋 공차 : ≥±550mV
- 응답 주파수 : 0.05 Hz to 150 Hz (-3dB) (drift filter : off, high-cut filter : 150Hz)
- 디지털 변환 해상도 : 1.25 μV
- 전극 점검: Every electrode except N(RF)
- 심전도 기록 획득시간(자동모드) : 10-24s

2. Signal Processing

- 샘플링 분석 속도: 500 samples/s
- 샘플링 획득속도 : 8000 samples/s
- AC interference 필터 : 50/60Hz
- 시간 상수 : ≥ 3.2s
- High-cut 필터 : 75, 100, 150Hz
- EMG 억제 필터 : 25, 35Hz
- 파형 형태 감지 : 전극분리 (polarization voltage),
  노이즈 (고주파)
- 최소 감지 전압 : ≤20 μVp-p
- ECG 획득시간(자동 측정시) : 10-24s

3. Display

- 종류 : Color LCD (CCFT backlight)
- 디스플레이 크기 : 7 inch
- 해상도 : 320 × 240 dots
- 디스플레이 데이터 : 12 lead ECG waveform, Patient information, recording settings, operation mode, heart rate, QRS mark, CAL mark, error message, electrode datachment, noise

4. Recorder

- 인쇄 프로세스: High resolution thermal print head
- 인쇄 밀도 : 200dpi (8 dots/mm) , 320 dot/mm² (25mm/s)
  수평 : 40 dots/mm (at 25mm/s)
  수직 : 8 dots/mm
- 스케닝 라인 밀도 : 1ms
- 용지 폭: 110mm
- 기록 넓이 : 104mm
- 채널 수 : 3,4,6
- 기록 라인 수 : up to 26
- 감도: 5,10,20 mm/mV (감도는 자동으로 2.5mm/mV 로 감쇠될 수 있으며, 1.25mm/mV 자동 게인 컨트롤이 ON 으로 설정되고 과도하게 높음 진폭 심전도 신호가 나옵니다.)
-그리드 인쇄 : 사용가능

- 데이타 기록: 프로그램 종류, 버전, 날짜 및 시간, 용지 속도, 감도, 납
이름, 환자 정보(ID 번호, 이름, 성별, 연령), 타이밍 마크, 이벤트 마크, 전극 분리, 노이즈
- 기계적 노이즈 : 48dB or less at 10,12.5,25mm/s paper speed
- 용지 종류: 20m long Z-fold, 140cm/page

5. ECG Analysis

- 프로그램 이름 : ECAPS 12C
- 분석 환자 연령 : 3 years to adult
- 분석 시간: 5 sec.
- 항목 찾기: approx.200
- 심사 항목 : 5

6. Dimensions and Weight

- 치수: 210W X 69H X 280 D mm(excluding protrusions)
- 무게:

  메인 유닛 : approx.2.0 kg ±10%(without battery and recording paper)

  베터리: approx. 0.4kg

7. Interface

- 외부 입력 1/CRO 출력 커넥터:1 포트
- 외부 입력 2 커넥터:포트 1 개
- USB 커넥터 유형 A:포트 2 개(USB-LAN 어댑터용)
- SD 카드 슬롯:포트 1 개(SD 무선 LAN 카드의 SD 메모리 카드용

8. External Input/Output

- 입력 신호 : 100mm/0.5 V ±5%, input impedance 100Ω
- 출력 신호 : 1mV/0.5 V ±5%, output impedance 100Ω or less

9. Power requirement

- 전원 라인 전압:100 to 240V ±10%, 50-60Hz
- 전원 입력 : up to 120 VA
- 전력 소모 : 49W or less
- 베터리: X065, YZ-024H9, NiMH
- 전압 : 12V
- 전압 소비 : 6A or less

- 작동시간 : 약 60 분 (완충시)
- 충전시간 : 10 시간

C. Consisting of

1. Main unit	1pc
2. Rechargeable battery	1pc
3. Patient cable hanger	1pc
4. Cart (Domestic supply)	1pc
5. Accessory	
-Patient cable, 3mm	1pc
-Chest electrode, 3mm, 3pcs/set	6sets
-Limb electrode, 3mm, 4pcs/set	4set
-Recording paper	1pc
-Power cord	1pc