

Scalis



HEYER 
MEDICAL AG

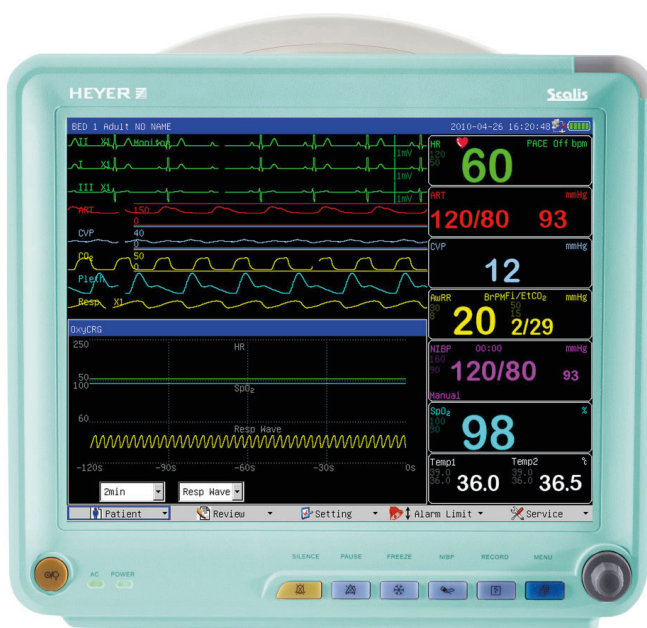
MEGAH ALKESINDO



Scalis 15

Multifunctional patient monitor
Patient monitoring for adults, children and infants

- Display 15" color with up to 14 tracks
- Innovative menu with only one level
- simple and friendly
- Various parameters such as ECG/RESP, SpO2, NIBP, TEMP, Pulse Rate
- Curves graphics trend over a period of 72 hours and trends represented as all parameters table
- Built-in battery
- The arrhythmia analysis, ST calculation, pulse analysis
- Anti-ESU, Anti-defibrillator
- Standard network interface
- CMS connection monitor



Scalis 12

Multifunctional patient monitor
Patient monitoring for adults, children and infants

- Display 12" color with up to 12 tracks
- Innovative menu with only one level
- simple and friendly
- Various parameters such as ECG/RESP, SpO2, NIBP, TEMP, Pulse Rate
- Curves graphics trend over a period of 72 hours and trends represented as all parameters table
- Built-in battery
- The arrhythmia analysis, ST calculation, pulse analysis
- Anti-ESU, Anti-defibrillator
- Standard network interface
- CMS connection monitor



Scalis Central Station

Multifunctional patient monitor

- Scalis CS Central Station
- Connectable with LAN, WLAN or mixed LAN / WLAN networks
- Connection of up to 64 patient monitors
- Acoustic and optic alarm three alarm levels, adjustable volume
- Two-screen-display, patient data and monitoring information can be displayed separately
- Several display modes Waveforms and parameters displayed can be adjusted for different patients
- Search function for patient data

HEYER Scalis Monitoring Station Software offers:

- Connectable with LAN, WLAN or mixed LAN / WLAN networks
- Limited wireless, unlimited wireless networking or mixed networked connection
- Connection to 64 bedside monitors
- Sound and light 3 alarm, adjustable volume
- Double screen, split-screen display patient medical records and bedside care information
- A variety of display format settings, optional waveforms, different bed types and vital signs monitoring data
- Inquiries about patient care information

CENTRAL MONITORING SPECIFICATIONS

Safety

Based on MDD 93/42/EEC

Language

English, Chinese

Indicator

- For general monitoring
Up to 16 display zones on screen with each displaying 2 waveforms and 1 parameter group
- For full disclosure monitoring
1 display zone on screen with 12 waveforms and all parameter display in it
- For multi-lead ECG monitoring
1 display zone on screen with 7 ECG waveforms and 3 parameters incl. HR, ST, PVC in it

Waveform

ECG, RESP, PLETH, IBP, CO₂, GAS

Parameter

HR, ST, RR, SPO₂, PR, T1, T2, Td, ART, CVP, NS, NM, ND, CO₂, AwRR, INS, T.B., CO₂Et, CO₂Fi, O₂Et, O₂Fi, N₂OEt, N₂OFi, ISOEt, ISOFi, AgAwRR, MAC

Alarm

Parameters alarm, ST alarm, Arrhythmia alarm, Technical alarm, Audible and Visual Alarm indicator for all alarms

Review

- 240 hours trend per bedside monitor, 1 minute resolution
- 6-minute short trend review of 4 parameters for each bedside monitor
- 360 items parameters alarm per bedside monitor, 2 * 12 seconds waveform
- 360 items arrhythmia alarm per bedside monitor, 2 * 12 seconds waveform
- 72 hours full-disclosure waveform review
- 10,000 patients history data review, including 48 hours trend and 100 items alarm data

Network Protocol

- TCP/IP for layer 3, layer 4 of OSI
- CMS protocol for layer 7 of OSI

Network capability

64 bedside patient monitors connectivity

Patient Management

Admit, Dismiss, Transfer, History monitoring information query

HARDWARE REQUIREMENTS

Safety

Council Directive 73/23/EEC
Council Directive 89/336/EEC

Environment

- Temperature
 - Working 0 to 40 °C
 - Transport and Storage -20 to 60 °C
- Humidity
 - Working <= 80 %
 - Transport and Storage <= 90 %
- Altitude
 - Working -500 to 4,600m (-1,600 to 15,000 ft)
 - Transport and Storage -500 to 13,100m (-1,600 to 43,000ft)
- Power Supply
 - Electrical specifications 240 V AC
- Applicable range
 - Area other than point of care

Display monitor

- 17" (inch) color LCD or above
- 1024 * 768 Resolution, 65535 color

Interface

- Intel Pentium or above
- Power supply input socket
- Min. 2 USB ports
- 1 RJ-45 Network interface
- 1 Keyboard interface
- 1 Mouse interface
- 1 Sound output Interface

Printer

- Resolution 600 dpi or above
- Speed 6 page / min. or above
- Paper size A4

Scalis 12 & Scalis 15 Specifications

ECG

Lead mode	I, II, III, AVR, AVL, AFF, V
Gain	x0.25, x0.5, x1, x2
Heart Rate	15 - 300bpm (Adult) 15 - 350bpm (Neonate) Resolution: 1bpm Accuracy: 1%
ST measurement	Range: -2.0 - + 2.0mV Accuracy: ± 10%
Pacemaker	Yes
Sweep Speed	12.5 mm/s, 25mm/s, 50mm/s
Bandwidth	Diagnostic: 0.05 - 130 Hz Monitor: 0.5 - 40 Hz Surgery: 1 - 20 Hz

SPO2

Measure range	0 - 100%
Resolution	1%
Accuracy	2% (70-100%)
Pulse Rate	20 - 250bpm
Resolution	1bpm
Accuracy	± 3bpm

RESP

Measure range	0 - 150 bpm
Resolution	1bpm
Accuracy	± 2%

TEMP

Measure range	0 - 50°C
Resolution	0.1°C
Accuracy	± 0.1°C

NIBP

Work mode	Manual, automatic, continuous	
Unit	mmHg, kPa	
Measure range	Adult	SYS 40 - 280 mmHG DIA 10 - 225 mmHG MEAN 20 - 240 mmHG
	Pediatric	SYS 40 - 220 mmHG DIA 10 - 160 mmHG MEAN 20 - 170 mmHG
	Neonatal	SYS 40 - 135 mmHG DIA 10 - 100 mmHG MEAN 20 - 110 mmHG
Resolution	1 mmHG	
Accuracy	± 5 mmHG	

OPTIONS

IBP (option for Scalis 12 & Scalis 15)

Channels	2
Measure range	-50-360 mmHg
Accuracy	± 2%

CO2 (option for Scalis 12 & Scalis 15)

Measure range	0% - 13%
Resolution	1 mmHG
Accuracy	2 mmHg @ <0.5% CO2 (at ATPS)
AwRR	3 - 150 bpm

IOC (option for Scalis 15)

IOC	0 - 100
EMG	0 - 100
ESR	0 - 100

IRMA MULTI-GAS

(option for Scalis 12 & Scalis 15)

Measurement range	
CO2	0-10%
N2O	0 - 100 %
Des	0 - 18%
Sev	0 - 8 %
Enf, Iso, Hal	0-5%
AwRR	3 - 100 bpm

Other options

Touch-Screen Display
3 Channel Recorder (Scalis 12, Scalis 15)

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