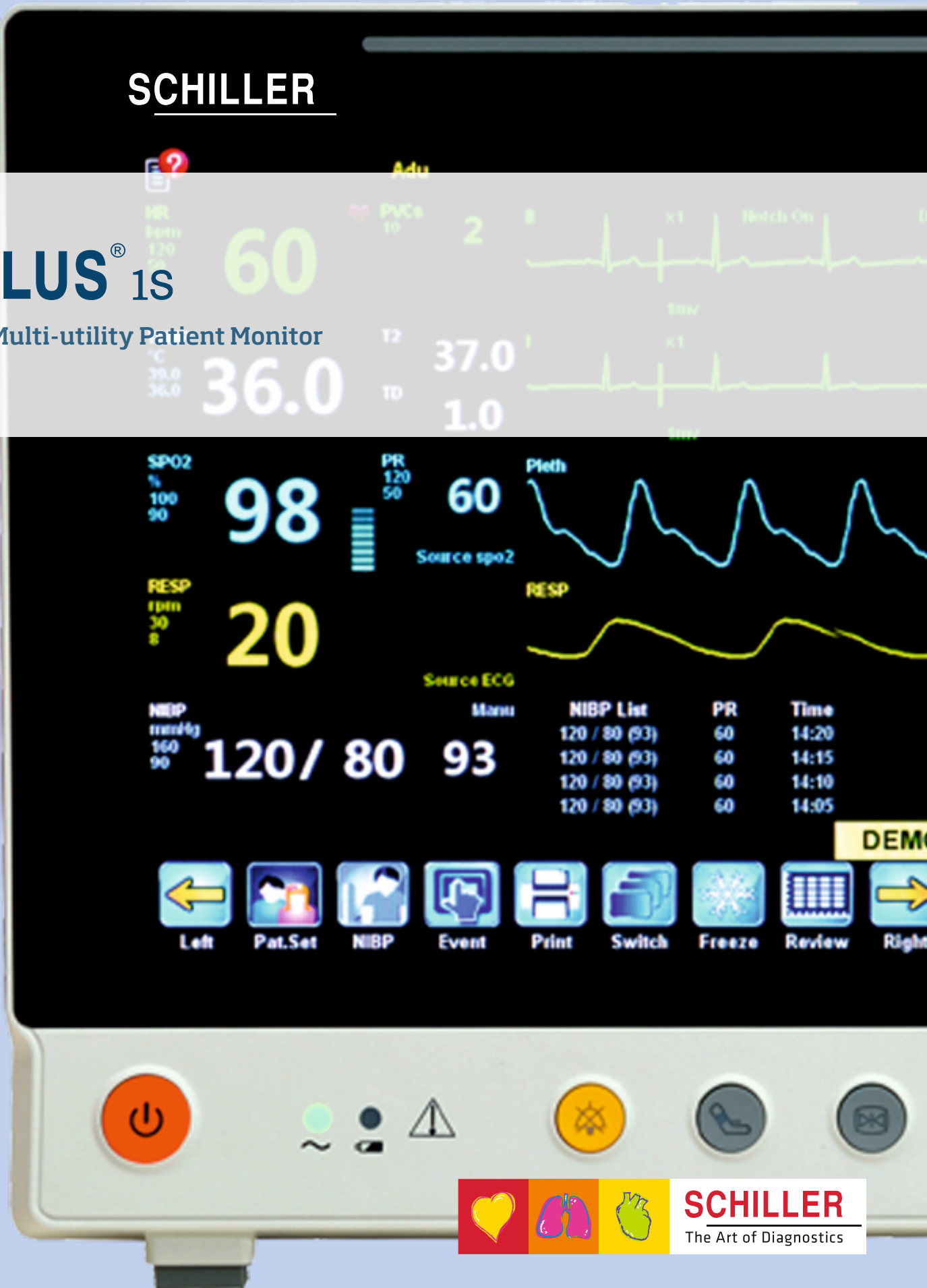


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SOLUS[®] 1S

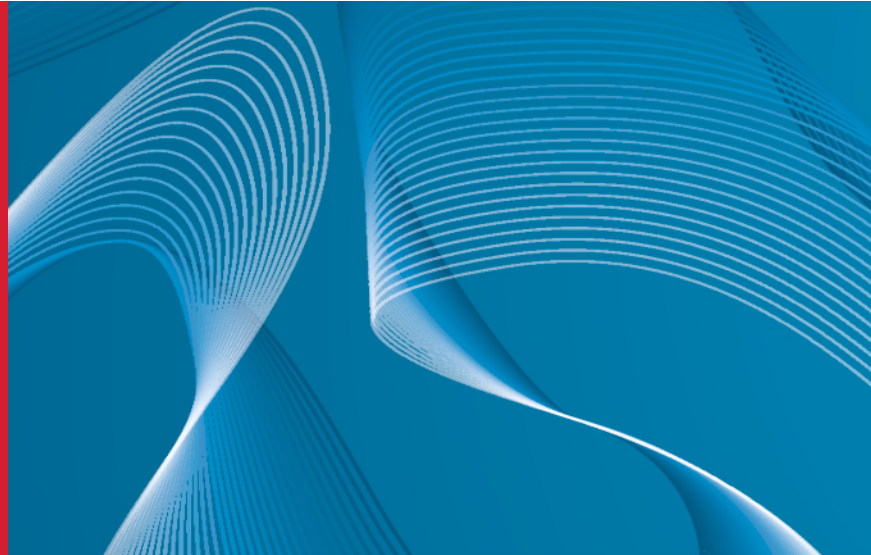
12.1" Multi-utility Patient Monitor



SCHILLER
The Art of Diagnostics

SOLUS[®] 1S

- ✦ 12.1" colour TFT LCD screen
- ✦ Wide and flat screen design
- ✦ Economic and reliable
- ✦ 120 hours long trend
- ✦ 60 minutes short trends
- ✦ 1000 NIBP measurements
- ✦ 200 alarm events



STANDARD CONFIGURATION

- ✦ ECG+SpO₂+NIBP+2TEMP+PR+RESP

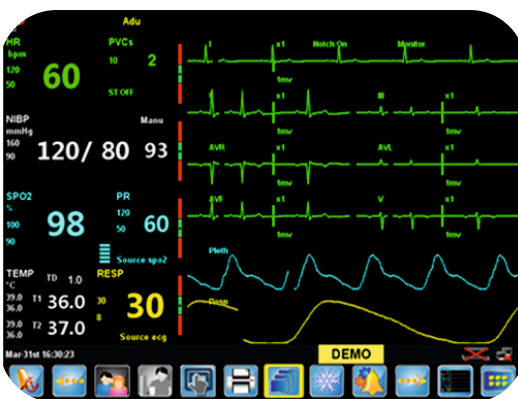
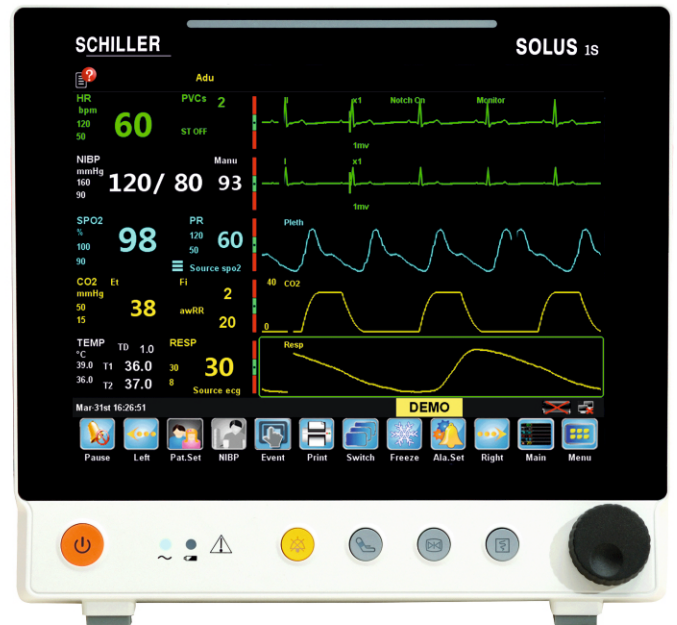
OPTIONAL

- ✦ Dual IBP
- ✦ EtCO₂ (Mainstream/ Sidestream)
- ✦ Thermal recorder
- ✦ Touchscreen
- ✦ CMS



FEATURES

- ❖ 12.1" high resolution colour TFT LCD display
- ❖ Total 8 waveform display
- ❖ ST and arrhythmia analysis
- ❖ 48 hours full disclosure waveform display
- ❖ 120 Hours of tabular and graphic trends & data storage
- ❖ Hemodynamic, Drug dosage, Oxygenation, Renal function & Ventilation calculation
- ❖ OxyCRG software
- ❖ Pacemaker detection facility
- ❖ SpO2 pulse-tone modulation (Pitch Tone)
- ❖ MEWS (Modified Early Warning Score)
- ❖ Rechargeable lithium-Ion battery
- ❖ Various mounting solutions
- ❖ Support HL7 protocols to HIS
- ❖ Central station connectivity : Wired



7-lead ECG

| Time | SPO2 | PR | T1 |
|--------------|------|----|------|
| (09)11:28:40 | 98 | 60 | 36.0 |
| (09)11:28:39 | 98 | 60 | 36.0 |
| (09)11:28:38 | 98 | 60 | 36.0 |
| (09)11:28:37 | 98 | 60 | 36.0 |
| (09)11:28:36 | 98 | 60 | 36.0 |
| (09)11:28:35 | 98 | 60 | 36.0 |

Graphical and Tabular Trend

Technical Data SOLUS[®] 1s

General

Application: Adult, Pediatric and Neonate

Size & Weight

Dimension: 310 mm (l) * 285 mm (w) * 166 mm (t) Weight: <10 kg

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

Defibrillator & cautery protected

Safety class: Category I

Display

Display: 12.1" high resolution color TFT display

Resolution: 800 X 600 Option: Touch screen

Battery

Type: Rechargeable Lithium ion batteries

Battery backup: >120 Minutes

Battery charging time: 5~6 hrs

Alarm

Level: Low, Medium & High Indication: Auditory & Visual

Setup: Default & Custom Silence: All alarms can be silenced

Environment

Operating Temperature: 5~40°C Storage Temperature: -20~+55°C

Operating Humidity: <85% Storage Humidity: 10% to 95%

Operating atmospheric pressure: 70 kPa to 106 kPa

Storage atmospheric pressure: 50 kPa to 106 kPa

ECC

Lead type: 3-lead, 5-lead

ECC waveform: 2 channels, 7 channels

Display sensitivity: 2.5 mm/mV (x0.25), 5 mm/mV (x0.5),

10 mm/mV (x1.0), 20 mm/mV (x2.0)

Wave sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s

Bandwidth:

- Diagnostic mode: 0.05Hz ~ 100Hz - Monitor mode: 0.5Hz ~ 40Hz

- Surgery mode: 1Hz ~ 20Hz - Strong filter mode: 5Hz ~ 20Hz

CMRR > 100dB

Notch: 50/60Hz notch filter can be set to on or off

Differential input impedance >5MΩ

Electrode polarization voltage range: ±400mV

Baseline recovery time < 3s after defibrillation (in monitor and surgery mode)

Calibration signal: 1mV (peak - peak), accuracy ±3%

Respiration

Measurement method: Thoracic electrical bio impedance

Measuring lead: Lead I, II

Wave gain: x0.25, x0.5, x1, x2

Respiratory impedance range: 0.5-5 Ω

Baseline impedance: 500-4000Ω

Gain: 10 grades

Scan speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s

Pulse Rate

Range: 30~254 bpm **Resolution:** 1bpm

Accuracy: ±2 bpm (non-motion)

±5 bpm (motion)

Refreshing rate: 1s

NIBP

Measurement method: Automatic oscillometric method

Operating mode: Manual, automatic, continuous

Measurement unit: mmHg/kPa selectable

Typical measurement time: 20~40s

Measurement type: Systolic, Diastolic, Mean

Measurement range (mmHg)

Range of Systolic pressure: Adult 40-270

Pediatric 40-200

Neonatal 40-135

Range of Diastolic pressure: Adult 10-210

Pediatric 10-150

Neonatal 10-100

Range of Mean pressure: Adult 20-230

Pediatric 20-165

Neonatal 20-110

Measurement accuracy

Maximum average error: ±5mmHg

Maximum standard deviation: 8mmHg

Resolution: 1mmHg

Interval: 1,2,3,4,5,10,15,30,60,90,120,180,240,480 minutes

Overpressure protection: Software and hardware, double safety protection

Cuff pressure range: 0-280 mmHg

SpO₂

Measurement range: 0-100% **Resolution:** 1%

Accuracy: ±2% (70-100%, Adult/Pediatric);

±3% (70-100%, Neonate);

0-69%, unspecified

Refreshing rate: 1s

Temperature

Accuracy: ±0.1°C or ±0.2°F

Measurement range: 5~50°C (41~122°F)

Channel: Two channels

Resolution: 0.1°C

Parameters: T1, T2 and TD

IBP (Option)

Channels: 2 channels **Range:** -30~ 300 mmHg

Resolution: 1mmHg **Accuracy:** ±1mmHg or 2%, whichever is greater

Unit: mmHg, Kpa **Transducer sensitivity:** 5uV/V/mmHg

Name of pressures: ART/PA/CVP/LAP/RAP/ICP

Optional Transducer: BD, UTAH, EDWARD & BL Life Sciences

SOLUS EtCO₂ (Mainstream) (Option)

Method: Mainstream

Measurement Range: 0% to 25%(0 mmHg to 150 mmHg)

Resolution: 0.1% or 1 mmHg

Accuracy: 0-40 mmHg ± 2 mmHg

41-70 mmHg ± 5% of reading

71-100 mmHg ± 8% of reading

101-150 mmHg ± 10% of reading

Unit: mmHg, Kpa, %

SOLUS EtCO₂ (Sidestream) (Option)

Method: Sidestream

Measurement Range: 0 to 25%(0 mmHg to 150 mmHg)

Resolution: 0.1% or 1 mmHg

Accuracy: 0~15 mmHg ± 0.2% (± 2mm Hg) 15~25 mmHg not specified

Unit: mmHg, Kpa, %

EtCO₂ (Upgrade Option)

Masimo EtCO₂- IRMA & ISA

Recorder (Optional)

Built-in, Thermal dot array

Horizontal resolution: 16 dots/mm (25 mm/s paper speed)

Vertical resolution: 8 dots/mm

Paper speed: 25 mm/s, 50 mm/s

Number of waveform channels: 3

Paper width: 50 mm

Memory/Storage

120 Hrs of Trend storage, 60 minutes short trend

200 alarm event & 1000 NIBP groups

Standard Accessories

ECG cable (5 Lead) - 1 No

Disposable electrodes - Pack of 10

SpO₂ probe with extension cable - 1No

NIBP adult cuff - 1No

Pediatric cuff - 1no

NIBP extension tube - 1No

Skin temp probe - 1No

Power cord - 1No

Grounding wire - 1No

User manual - 1 No

Warranty card - 1No

Accessories shown are not part of standard configuration All registered trademarks acknowledged.

Technical data are subject to change without notice

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The Art of Diagnostics

Swiss H.Q.: Schiller AG, Altgasse 68, P. O. Box 1052, CH -6341 Baar, Switzerland.
Indian Corporate Office: Schiller Healthcare India Pvt. Ltd., Advance House, Makwana Road, Off Andheri Kurla Road, Marol Naka Metro Station, Andheri (East), Mumbai-400 059.
Tel.: +91-22-61523333/29209141 Fax: +91-22-29209142
E-mail: sales@schillerindia.com, support@schillerindia.com
Factory: No. 15/5 & 15/6, Vazhuthavur Road, Kurumbapet, Puducherry - 605 009, India

Authorised Dealer

Regional / Branch Offices: Ahmedabad: 079-40307190/09327031678 Email: sales.west@schillerindia.com
Bengaluru: 080-26564045/09341920520 Email: sales.south2@schillerindia.com Bhopal: 0755-4274421
Email: sales.central@schillerindia.com Bhubaneswar: 073045 48159 Email: sales.east@schillerindia.com Chennai: 044-28232648/
044- 2831 1021 Email: sales.south1@schillerindia.com, Trichy/ Coimbatore: 09383620520 Email: sales.south1@schillerindia.com
Guwahati: 07304548161 Email: sales.east@schillerindia.com Hubli: 07304548216 Email: sales.south2@schillerindia.com
Hyderabad: 040-40101912/09391620520 Email: sales.south2@schillerindia.com Indore: 09327031678 Email: sales.central@schillerindia.com
Nagpur: 7304930649 Email: sales.west@schillerindia.com Kathmandu: 00977-9852030389 Email: sales.nepal@schillerindia.com
Kochi: 0484-2203264/09349257488 Email: sales.south1@schillerindia.com Ranchi/ Kolkata: 033-23593102/09339620520
Email: sales.east@schillerindia.com Lucknow: 08303243444 Email: sales.north@schillerindia.com
Mumbai: 022-61523333/022-29209141 Email: sales.west@schillerindia.com, Chandigarh/ Jaipur/ New Delhi: 011-41062067/09312432205
Email: sales.north@schillerindia.com Patna: 073045 48170 Email: sales.east@schillerindia.com Puducherry: 0413-2202680/0413-2202940 Email:
sales.south1@schillerindia.com Nashik/ Pune: 020-24210657/09371020520 Email: sales.west@schillerindia.com Chattisgarh:
07304548228/07304548232 Email: sales.central@schillerindia.com Assam: 07304548161 Email: sales.east@schillerindia.com

CIN : U33110MH1997PTC111307

sales@schillerindia.com



www.schillerindia.com



1800 2098998