

ACCURATE,
AFFORDABLE
and yet
COMPREHENSIVE.

Prime
Innovation
for Medical
Application



**SPOTLIFE® TOUCH
SERIES
VITAL SIGNS MONITOR**

**ZUG
MEDICAL SYSTEMS**



ALL PARAMETERS AT A GLANCE, EVEN GRAPHS AND TRENDS

More than a Standalone Device



Connectivity Ability



Historical Management



Powerful Parameter Measurement

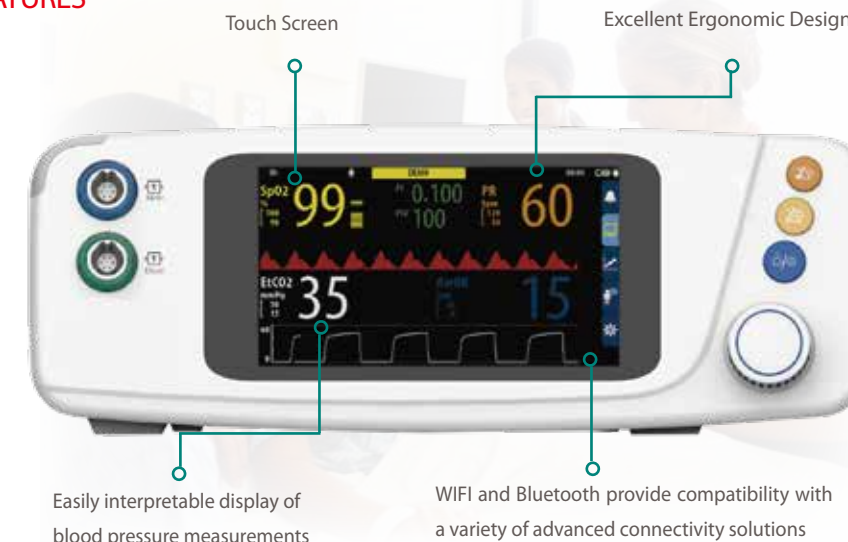
OVERVIEW

Zug Medical System SpotLife® Vital signs monitor has been designed to serve frontline caregivers in emergency, perioperative care and ICU/NICU departments. With its accurate oximetry adapted for adult as well as neonate, it provides a continuous and accurate monitoring of the SpO2 and PR even in case of low perfusion. SpotLife® VSM is declined in versions with

either NIBP or CO2 measurement with optional fast temperature monitoring.

Its handle and lightweight make it easy for transport use while its 4 stable feet allow a reliable use as bedside monitor. Cost effective, it remains a comprehensive device for multiple applications and environments.

FEATURES



Configureable:



Multi-scenario application: Operating room, ICU, Respiratory, CBR, Physical examination.....



Operating room



ICU



Out-of-hospital emergency



Transport hospital

For more information, please contact us: info@zugmed.com

- It is equipped with a 5" TFT display and the display panel is inclined at 15°, which is convenient for doctors to view .
- 72-hour data storage , uninterrupted recording trend data, with dual alarm function of sound and light , alarm parameters
- RS232 serial port data transmission function .
- Multiple models, standard configuration SPO2, select configuration NIBP、 EtCO2.
XH60-A:SPO2, NIBP
XH60-B:SPO2, Internal Sidestream EtCO2
XH60-C:SPO2, **Mainstream** EtCO2
XH60-D:SPO2
XH60-E:SPO2, NIBP, **Mainstream** EtCO2
XH60-S:SPO2, NIBP, Internal Sidestream EtCO2

ENVIRONMENTAL CHARACTERISTICS

Operation	Storage
Temperature: -0°C ~ 40°C Humidity: 10% ~ 95%, non-condensing Atmospheric pressure: 70.0kPa ~ 106.0kPa	Temperature: -20°C ~ 60°C Humidity: 10% ~ 95%, non-condensing Atmospheric pressure: 57.3kPa ~ 106.0kPa

ELECTRICAL AND MECHANICAL CHARACTERISTICS

Electrical Power Supply	Battery
AC: 100 ~ 240V ± 10% (built-in adapter) Input power: 60VA Frequency: 50Hz/60Hz ± 3Hz One equipotential grounding interface Product Class: IIb (in accordance with MDD93 /42/ EEC)	Built-in rechargeable lithium batteries: 11.1 V / 2400mAh
	Mechanical
	Dimensions: 255*140*95mm (LxWxH) Weight: 1.5 kg (without accessories)

INTERFACES

Connectivity	HMI
<ul style="list-style-type: none"> • USB interface • RS232 interface • Connected to central monitor via RJ45 . • Bluetooth Printer • Ethernet Port 	<ul style="list-style-type: none"> • <i>Optional</i> : 6 models of configuration options • Display: 5" Color TFT LCD, 800 x 480pixels • Audio/Visual Indicators: Alarm limit reached, Alarm tone, Alarm mute, pulse strength, Patient name, Patient Type, Time, battery status, connection status. • LEDs: Adult, Neonate, Pressure Unit or SpO2/PR (according to model), battery in use, battery charging, silenced alarm. • User Interface language: English (additional language upon request).

PERFORMANCES

Oximetry(All models):

- SPO2: Measurement Range: 0 – 100%, Accuracy Range: 70 – 100 %, ±2% < 70%, Undefined, Resolution: 1%
- Pulse Rate: Measurement Range: 25-250 bpm, Accuracy Range: ±2%, Resolution: 1 bpm
- PI: Measurement Range: 0-20%, Resolution: 0.001%
- PIV: Measurement Range: 0-100%, Accuracy Range: Undefined, Resolution: 1%

NIBP(SPLF-NP model only)

- METHOD: *Automatic oscillometric*
- OPERATION MODES: *Manual, Automatic, Continuous*
- AUTOMATIC MODE MEASUREMENT INTERVAL: *1min/2min/3min/4min/5min/10min/15min/30min/60min/90min/2h/3h*
- CONTINUOUS MODE MEASUREMENT PERIOD: *5mins, with 5s between each measurement*
- MAXIMUM SINGLE MEASUREMENT TIME: *180s*
- MEASUREMENT RANGE: **Systolic BP: *Adult mode: 40 ~ 270 mmHg, Pediatric mode: 40 ~ 200 mmHg, Diastolic BP: *Adult mode: 10 ~ 210 mmHg, Pediatric mode: 10 ~ 162 mmHg, MAP: *Adult mode: 20 ~ 230 mmHg, Pediatric mode: 20 ~ 175 mmHg*****
- ACCURACY: **Mean error:** <±5mmHg, Standard deviation: <8mmHg
- STATIC PRESSURE MEASUREMENT RANGE: *0 mmHg (0kPa) ~ 300mmHg (39.9kPa)*
- STATIC PRESSURE MEASUREMENT ACCURACY: *±2mmHg or ±1% of reading (Whichever is greater)*
- RESOLUTION: *1 mmHg*
- INITIAL INFLATION PRESSURE SETTING RANGE: *Adult mode: 80 ~ 280 mmHg, Pediatric mode: 80 ~ 210 mmHg*
- INITIAL INFLATION PRESSURE DEFAULT: *Adult mode: 160 mmHg, Pediatric mode: 140 mmHg*
- SOFTWARE OVER-PRESSURE PROTECTION: *Adult mode: 297 ±3mmHg, Pediatric mode: 240 ±3mmHg*
- ALARM RANGE: **Systolic BP: *Adult mode: 40 ~ 270 mmHg, Pediatric mode: 40 ~ 200 mmHg, Diastolic BP: *Adult mode: 10 ~ 210 mmHg, Pediatric mode: 10 ~ 162 mmHg, MAP: *Adult mode: 20 ~ 230 mmHg, Pediatric mode: 20 ~ 175 mmHg*****

Capnography

- METHOD: *Infrared radiation absorption technology*
- CO2 MEASUREMENT RANGE: *0 ~ 20 Vol%*
- ACCURACY: *0 ~ 12 % : ± (0.2 Vol% + 2% of reading), 12 ~ 20 % : ± (0.2 Vol% + 6% of reading)*
- MEASUREMENT ACCURACY DRIFT: *accuracy requirements within 6 hours*
- RESOLUTION: *0.1 Vol%*
- ACCURACY: **Mean error:** <±5mmHg, Standard deviation: <8mmHg
- APNEA ALARM DELAY TIME: *20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s*
- ALARM RANGE: *EtCO2: 0 ~ 150mmHg, FiCO2: 0 ~ 150mmHg, awRR: 0 ~ 150rpm*

Thermometry

- METHOD: *Infrared non-contact forehead measurement*
- TEMP MEASUREMENT RANGE: *34 ~ 42.9 °C*
- ACCURACY: *34.0 ~ 34.9 °C ± 0.3 °C, 35.0 ~ 42.0 °C ± 0.2 °C, 42.1 ~ 42.9 °C ± 0.3 °C*
- RESOLUTION: *0.1 °C*
- ALARM RANGE: *34 ~ 42 °C*

ORDERING

Descriptions	Descriptions
SPLF-OX	○ <i>SpotLife® Oximeter Only, with Adult SpO2 reusable probe</i>
SPLF-NP	○ <i>SpotLife® Oximeter and NIBP, with Adult SpO2 reusable probe and Adult NIBP Cuff</i>
SPLF-MC	○ <i>SpotLife® Oximeter and Mainstream CO2 sensor, with Adult SpO2 reusable probe, one set of adult and neonate reusable airway adapters</i>
SPLF-SE	○ <i>SpotLife® Oximeter and External Sidestream CO2 sensor, with Adult SpO2 reusable probe, CO2 microstream canula.</i>
SPLF-TF	○ <i>Optional non contact infrared Fast TEMP probe with cable</i>
SPLF-PRT	○ <i>Optional Bluetooth thermal printer with one thermal paper roll</i>
RS-XXXX	○ <i>Optional Roll stand fixed height, locking wheels, with basket, with or without tilt</i>