

Athos SM
Series
-Semi Modular Type







12.1 inch 15.6 inch

ZUG[®]
MEDICAL SYSTEMS

OVERVIEW

The Athos SM series patient monitor are designed to meet the daily clinical needs about the Intensive patient monitoring.



- 
HD Display
- 
Touch Screen
- 
Silence
- 
Intelligent Setting
- 
Easy Clean
- 
More Readable

FEATURES

Excellent Performance :

- > The monitor adopts a modular design and a compact structure to meet the needs of various different parameter detections. It is suitable for adults, children and newborns.
- > Upgradable module is interchangeable (plug and play type).
- > 12.1inches/15.6inches colour LED screen with touch screen and /or rotator knob.
- > Multiple screen layout to view big font size in numeric and waveform.
- > Capable to visualize 6 or more waveform. IBP supports colour coding for different waveforms.
- > Trending facilities for upto 360 hours of both graphical & numerical along with eventreview facility for all parameters and full waveform disclosure facility.

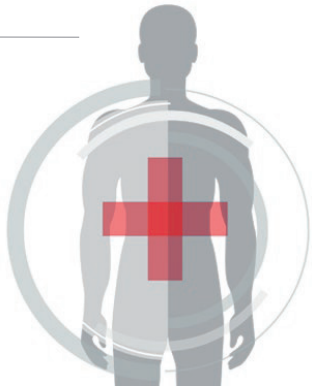
Powerful function :

- > Standard parameters: SpO2 , ECG, PR, RESP, NIBP,2*TEMP.
- > Optional parameters: 12 Lead ECG, CO2, 2*IBP, C.O., ICG, Ai, AG, EEG;
- > Arrhythmia detection and analysis in various leads. ST segment analysis with ST trend with continuous display of ST value on screen.
- > Different visual alarm with colour coding and audible alarms for variousparameters with three levels of volume adjustment.
- > A inbuilt battery backup of 4 hours. Energy-saving and low-power design extends battery life. Fanless design ensures a quieter, cleaner environment.
- > Support HL7 protocol to access the central workstation.

EEG Ai

Resp CO2
AG

ECG SPO2
IBP/NIBP TEMP
PR

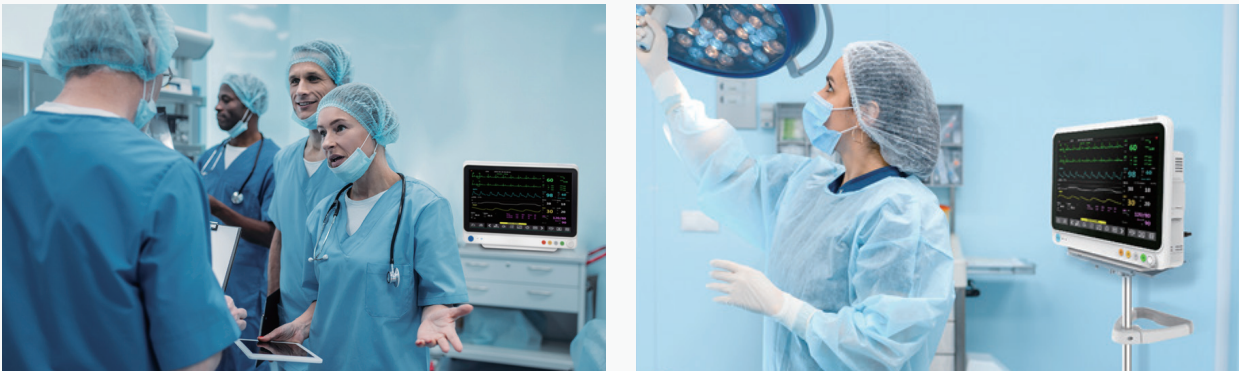


EEG and Ai Monitor Optimizing Anesthesia
Delivery with Ai™ Monitoring

Patented CapnoSET and TiniStream technology

Excellent ECG analysis and Anti-motion NIBP &
SPO2 Algorithm

Multi-scenario application: Intensive care/Sub-intensive care



PRODUCT OPTIONAL GUIDER

| Standard application | Optional application |
|----------------------|---|
| 3/5leads ECG | 12Leads ECG |
| NIBP | IBP |
| RESP | CO |
| SpO2 | EtCO2(Mainstream , Sidestream , TiniStream) |
| PR | Multi-Gas |
| HR | Depth of anesthesia Ai |
| TEMP | Central monitor |
| | Touch Screen |
| | Recorder |

PRODUCT SPECIFICATIONS

GENERAL

Dimensions : 15.6inch(30cm*15cm*30cm)
12.1inch(38cm*15cm*30cm)
Weight : 5.0kg (Including battery,built-in module)
Screen size:12.1inch and 15.6inch



PARAMETER

SPO2

SPO2 Range: 0~100%
SPO2 Accuracy : 70~100%,±2% <70%,Undefined
PI Range : 0~20%
PVI Range : 0-100%
PR Range : 25-250bpm
PR Accuracy : ±2bpm or ±2%(whichone is greater)

ECG

ECG Range : 0.15~5.5mV
ECG Resolution : 2.36uV/LSB
HR Range : 15~300bpm(adult) 15~350bpm(child/neonate)
HR Accuracy : ±1bpm or ±1% (whichone is greater)
RR Range : 0~120bpm
RR Accuracy : 15~120rpm : ±2rpm or ±2% <15rpm:Undefined

TEMP

Range: 0-50°C
Accuracy: ±0.1°C
Resolution: 0.1°C

NIBP

Static Pressure Range: 0~300mmHg
Static Pressure Accuracy: ±2mmHg or ±1% of reading (take the larger value)
Static Pressure Resolution: 1mmHg
Blood pressure SYS Range: Adult: 40-270mmHg Pediatric: 40-235mmHg Neonate: 25-130mmHg
Blood pressure DIA Range: Adult: 10-210mmHg Pediatric: 10-200mmHg Neonate: 10-90mmHg
Blood pressure Mean Range: Adult: 20-230mmHg Pediatric: 20-225mmHg Neonate: 15-100mmHg
Blood pressure Accuracy: The mean deviation<±5mmHg The standard deviation<8mmHg

RESP

Range: 0-120Rpm
Accuracy: 15-120Rpm ±2Rpm or ±2% of the reading (which one is larger) Others,undefined
Resolution: 1Rpm

IBP(Optional)

Pressure Range: -50~350mmHg
Accuracy: ±2mmHg or ±1% of reading (take the larger value)
PR Range: 20-350bpm
PR Accuracy: ±3bpm

CO(Optional)

Range: 0.20~20.00L/Min
Accuracy: ±0.2L/Min or ±5% (take the larger value)

EtCO2 (Optional)

CO2 Range: 0~20.0vol%
CO2 Accuracy: 0~12vol%:±(0.2vol%+2%of reading) 12~20vol%:±(0.2vol%+6%of reading)
AwRR Range: 0~150rpm
AwRR Accuracy: mainstream:0~150rpm,±1rpm Sidestream:0~69rpm,±1rpm 70~150rpm,Undefined



Plug-in Modular



Optional:

12 Lead ECG; CO₂ (Sidestream CO₂, TiniStream CO₂, Mainstream CO₂) ; IBP (IBP1/IBP2, IBP3/IBP4) ; C.O. ; ICG ; AI; AG; EEG (2/4 channels); NMT

CENTRAL MONITORING SYSTEM

Central Monitoring System supports up to 64 beds or 64 patients across clinical units at the same time.

72 hours of 64-channel holographic physiological waveform storage and review.

Provides review of up to 240 hours trend data storage, 720 alarm events per beds.

Bi-directional communication with Athos SM Series monitors for enhanced patient care.



Athos SM 15



Athos SM 12

x64*

PATENT



SPO2

Patent Patent No: ZL 2019 1 0907433.8
ZL 2019 2 1510989.5
ZL 2019 2 1596814.0

RESP

Patent Patent No: ZL 2014 1 0429201.3
ZL 2014 2 0489133.5
ZL 2021 2 0480587.6

EtCO2

Patent Patent No: ZL 2018 1 0713045.1
ZL 2018 1 0713152.4
ZL 2020 2 1177039.8
ZL 2019 2 0722093.7
ZL 2017 2 0804416.8
ZL 2017 2 0293754.X

ECG

Patent Patent No: ZL 2015 0484280.2
ZL 2019 1 0064711.8
ZL 2017 1 0691935.2
ZL 2021 2 0480587.6

Software copyright patent

Patent No: 2017SR076521

Appearance patent

Patent No: ZL 2015 3 0297516.2