

ATLAS N5

Configurations

Dimensions	Height (With casters)	130cm±1cm
	Width	90cm±1cm
	Depth	71cm±1cm
	Safe shelf loading	25 kg±0.5kg
Display	12 inch TFT LCD touch screen, 800x600 pixels	
Gas supply	O ₂ , N ₂ O, AIR	
Selectatec bar	Dual positions	
ACGO	Standard	
Flowmeter	Electronic Flowmeter	
By-pass	Standard	
Ventilator Software	V-CMV, P-CMV, Standby, Manual/Spont, PSV, V-SIMV, P-SIMV Options are available.	
Spirometry loop	P-V,P-F,F-V,reference Loop. Options are available.	
Spare Cylinder yoke	Optional(O ₂ , N ₂ O)	
Li-ion Battery	1 battery, 4800mAh, 2 batteries, 9600mAh(optional)	
AGSS	Optional	
Waveforms	Up to 3 waveforms, user configurable	
Auxiliary power outlets	3. Options are available.	
Wheels	Four wheels(125mm), braked	
Drawers	2. Options are available.	
Reading lamp	LED lighting Included	
Gas monitor module	Optional (CO ₂ , AG)	
Heater	Standard	
O ₂ cell	Optional	
Vaporizer	Optional(Drager/Penlon/Northern)	
Patient monitor	Optional	
Suction device	Optional	

For more information, please contact Northern sales representatives

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Committed to Excellence



Atlas N5
Anesthesia Machine



- 12.1" TFT touch screen
- User friendly design interface
- Tidal volume 10-1500 ml
- Electronic flowmeter
- Metallic material of birthing circuit
- By-pass Tech for soda lime canister
- All ventilation modes to satisfy neonate, pediatric and adult patients.
- Integrated breathing circuit with built-in heater
- High visible ACGO



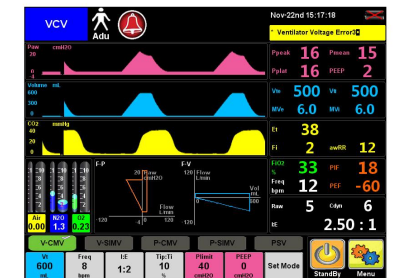
One-hand operation designed CO2 absorber.
By-Pass design ensures safely to renew it during operation.
Canister on-line detector.
Autoclavable PPSU material (up to 134°C)



Two-sided guide rails for patient monitor,
support arm and injection bump.
Stainless steel material can stand any
chemical sterilization agent
LED lights equipped to provide lighting
for the workbench.

Autoclavable Metallic and PPSU material.
Featured with stable pressure tightness.
Built-in heater
Breathing system with upward or downward bellows.

Fresh gas, compliance and leakage compensation
VCV, PCV, PSV, SIMV, ACGO, Manual ventilation modes
Alarms of incorrect installation of breathing system and
soda lime canister



Taurus

Multi-parameter Patient Monitor



Committed to Excellence

12.1" color TFT touch screen, wide and flat screen design, Multiple parameter options satisfy the need for ICU, CCU, NICU.

Configuration

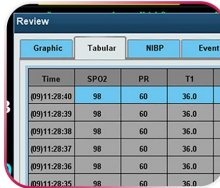
Optional

ECG+SpO2+NIBP+2TEMP+PR+RESP, Li-ion battery

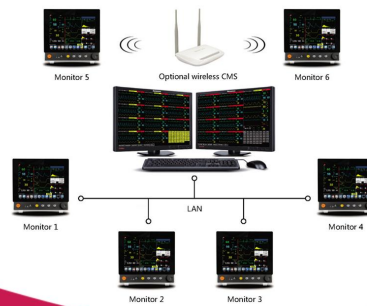
Masimo/Nellcor SpO2, EtCO2, C.O, 2-IBP, AG, BIS, NMT, Thermal recorder



Graphical & Tabular Trend



CMS (Up to 64 beds)



Northern Meditec



BIS



NMT



Masimo SpO2



Masimo Multigas/EtCO2

Taurus

Multi-parameter Patient Monitor

- 12.1" color TFT LCD Touch screen
- 8 waveform display, up to 12-lead ECG analysis
- Powerful calculation (Hemodynamic, Dose, Oxygenation, Ventilation)
- Pacemaker detection
- ST & arrhythmia analysis
- OxyCRGs

Various mounting solutions



- BIS module, NMT module optional
- Wired/Wireless CMS, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- MEWS (Modified Early Warning Score)
- Graphical & tabular trend review (480 hours)
- 48h full disclosure wave review for each patient

Specifications

Physical Specification

Display
12.1" TFT Touch screen
Resolution: 800 x 600 (1024 x 768 optional)
Number of traces: 8, up to 12 ECG waveforms
Dimension: 310x292x174mm(WxHxD)
Weight: < 5 kg under standard configuration
LAN: 1 standard RJ45 port
WLAN: IEEE 802.11b/g/n
USB: 2 USB connectors
HDMI: 1 HDMI monitor connector
Output 1 connector for Nurse call, Defib Sync Analog Output

ECG

Lead type: 3-lead, 5-lead, 12-lead (optional)
ECG waveform: 2 channels, 7 channels, 12 channels
Display sensitivity:
2.5mm/mV ($\times 0.25$), 5mm/mV ($\times 0.5$), 10mm/mV ($\times 1.0$),
20mm/mV ($\times 2.0$)
Wave sweep speed:
3.125mm/s, 6.25mm/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 on or off
Differential input impedance > 5M Ω
Electrode polarization voltage range: ± 400 mV
HR range: 15 ~ 350 bpm
ST Measurement Range: -1.0 ~ +10 mv
Baseline recovery time < 3s after defibrillation (in monitor and surgery mode)
Calibration signal: 1mV (peak - peak), accuracy $\pm 3\%$

TEMP

Accuracy: $\pm 0.1^{\circ}\text{C}$ or $\pm 0.2^{\circ}\text{F}$ (without probe)
Measurement range: 0~50 $^{\circ}\text{C}$
Channel: Two channels
Resolution: 0.1 $^{\circ}\text{C}$
Parameters: T1, T2 and TD

RESP

Measurement method: Thoracic electrical bioimpedance
Operation modes: Auto/Manual
Measuring lead: Lead I, II
Measurement range: Adult: 0~120 bpm;
Neonate/Pediatric: 0~150bpm
Resolution: 1 bpm
Apnea alarm delay: 10s, 15s, 20s, 25s, 30s, 35s, 40s
Apnea alarm: Selectable
Wave gain: $\times 0.25$, $\times 0.5$, $\times 1$, $\times 2$
Respiratory impedance range: 0.5~5 Ω
Baseline impedance: 500~4000 Ω
Gain: 10 grades
Scan speed: 3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s

Pulse Rate

Range: 30~300 bpm
Resolution: 1bpm
Accuracy: ± 3 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	40-280
Pediatric	40-200
Neonatal	40-135
Adult	10-210
Pediatric	10-150
Neonatal	10-95
Adult	20-230
Pediatric	20-165
Neonatal	20-105

Measurement accuracy
Maximum average error: ± 5 mmHg
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: 0~300mmHg

SpO2 (Northern)

Measurement range: 0~100%
Parameter monitoring: Perfusion Index (PI)
Pleth Variability Index (PVI)
Resolution: 1%
Accuracy: $\pm 2\%$ or ± 2 bpm
Refreshing Rate: 1s
Pleth wave speed: 3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s

Masimo SpO2 (optional)

Measurement range: 0~100%
Resolution: 1%
Accuracy: $\pm 2\%$ (70~100%, Adult/Pediatric, non-motion, low perfusion);
 $\pm 3\%$ (70~100%, Neonate, non-motion);
 $\pm 3\%$ (70~100%, motion);
0~69%, unspecified
Refreshing Rate: 1s

C.O. (optional)

Method: Thermodilution
Range: C.O.: 0.2 to 20 L/min
TB: 23 to 45 $^{\circ}\text{C}$
T1: -1 to 27 $^{\circ}\text{C}$
Accuracy: C.O.: $\pm 5\%$ or ± 0.1 L/min, whichever is greater
TB, T1: $\pm 0.5^{\circ}\text{C}$ (without sensor)

IBP (optional)

Channel: 2-channel or 4-channel
ART: 0 to 300 mmHg
PA: -6 to 120 mmHg
CVP/RAP/LAP/PCP: -10 to 40 mmHg
Measurement range: P1/P2 -50 to 300 mmHg
Resolution: 1mmHg
Accuracy:
 $\pm 2\%$ or ± 1 mmHg, whichever is greater (without sensor)
Sensitivity: 5uV/mmHg/V
Impedance range: 300 to 3000 Ω

Masimo ISA™ Sidestream CO2 (optional)

Warm-up time: Full accuracy within 10 seconds
Sampling flow rate: 50ml/min (+/-10/min)
Accuracy: 0~15% ($\pm 0.2\%$ of the reading)
15~25%, unspecified
Measurement Range: 0~25%
Rise time: 200ms, typical at 50ml/min flow rate
Total response time:
within 3 seconds (with 2m Nomoline sampling line)
AWRR Range: 0~150bpm

Masimo IRMA™ Mainstream CO2 (optional)

Measurement Range: 0~25%
Warm-up time: Full accuracy within 10 seconds
Accuracy: 0~15% ($\pm 0.2\%$ of the reading)
15~25%, unspecified
AWRR Range: 0~150bpm

Masimo Multi-gas ISA OR +/- IRMA AX+ CO2 (optional)

Gas: CO2, N2O, HALISO, ENF, SEV, DES with automatic identification
Warm-up time: Full accuracy within 20 seconds for IRMA AX+ CO2
Accuracy: 0~10% ($\pm 0.2\%$ + 2% of the reading)
0~15% ($\pm 0.3\%$ + 2% of the reading)
N2O Accuracy: 0~100% ($\pm 2\%$ + 2% of the reading)
HALISO, ENF: 0~8% ($\pm 0.15\%$ + 5% of the reading)
SEV: 0~10% ($\pm 0.15\%$ + 5% of the reading)
DES: 0~22% ($\pm 0.15\%$ + 5% of the reading)
Agent identification time: < 20s (typical < 10s)
AWRR range: 0~150bpm
AWRR accuracy: +/- 1bpm
Apnea time: 20~60s

Recorder (optional)

Built-in, Thermal dot array
Horizontal resolution: 16 dots/mm (25 mm/s paper speed)
Vertical resolution: 8 dots/mm
Paper speed: 12.5mm/s, 25 mm/s, 50 mm/s
Number of waveform channels: 3

Operation Environment

Power: AC 100-250V, 50/60Hz
Temperature: 5~40 $^{\circ}\text{C}$
Humidity: < 80%
Patient Range: Adult, Pediatric, Neonate

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