The ADSII is an advanced yet easy to use anesthesia workstation that provides accurate, pneumatically driven and electronically controlled ventilation.

The ADSII has an ergonomic design that incorporates new technology and provides safe and effective treatment options for the clinician. The ADSII includes Adult and Pediatric modes that provide patient-appropriate defaults and ranges.

The ADSII has VCV, PCV and SIMV+PS automatic ventilation modes providing flexibility in your choice of ventilation strategy. It is suitable for pediatric and adult operation.

The ADSII employs many features for outstanding usability including auxiliary oxygen flow control and multiple auxiliary power outlets.
The Infinium ADS II anesthesia systems offer pure simplicity in patient ventilation and anesthetic delivery.

The ADSII features:

• Highly accurate tidal volumes with 15 mL capability
• 12 inch Touch Screen TFT LCD
• Electronic Flowmeters (Air, N2O, O2)
• Autoclavable and Heated Absorber
• Ventilation modes of VCV, PCV, SIMV+PS
• Highly mobile space saving design with retractable writing table
• Battery Backup
• AGSS
• Electronic PEEP
• Vital signs, EtCo2, and Agent Monitoring
Modern And User-Friendly Design
WITH EXTREMELY SIMPLIFIED USER INTERFACE.

Ventilator/Gas Delivery

The **ADSII** offers an integrated ventilator with 12 inch color touch screen. Ventilation modes of VCV, PCV, SIMV+VCV+PSV, SIMV+PCV+PS, Manual and Standby are standard. On screen monitoring of spirometry loops, Paw, Peak, Pmean, PEEP are also standard. Airway pressure, flow and optional agents and EtCO2 are shown in graphical waveforms.

The **ADSII** features simplified gas delivery with digital O2, N2O and Air flowmeters. All ventilation and gas delivery controls are located within 10 cm from one and other to allow for an extremely simplified user interface.

Absorber

The **ADSII** features a 2 liter capacity absorber system with integrated bellows, APL valve and bag/ventilator selection switch. The entire absorber system is autoclavable.

Vaporizers

The **ADSII** provides Standard Selectatec™-compatible mounts and holds one or two vaporizers. Sevoflurane, Isoflurane, Desflurane, Enflurane, and Halothane are available.
MODERN AND USER-FRIENDLY DESIGN

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**Pin Index Cylinder Yokes**

The **ADSII** offers optional cylinder yokes for: N2O, O2, and AIR.

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**Wheel Lock**

The **ADSII** provides an ergonomic Footbrake System to lock the wheels. High-quality Anti-static Castors make the ADSII mobile and easily maneuverable.

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**Power/Network Panel**

The **ADSII** features a universal 110v/220v power panel with 4 - 50/60Hz power outlets. Ethernet, USB, and RS-232 ports are also included to offer a multitude of connectivity options.

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**Folding Writing Table**

The **ADSII** desktop incorporates an expandable writing table with several standard lighting options.
ADS II - ANESTHESIA DELIVERY SYSTEM

**TECHNICAL SPECIFICATIONS:**

**SYSTEM**  
Size Approx. 1420mm(H) x 760mm(W) x 760mm(D)  
Weight Approx. 286lbs (130kg)  
Top shelf bearing limit Maximum 55lbs (25kg)

**CASTER**  
5in (125mm), one foot braking system

**DRAWER**  
Three drawers have the same size, and all are 5.12in(H) x 14.29in(W) x 13.90in(D) 130mm(H) x 363mm(W) x 353mm(D).

**ANESTHESIA WORKSTATION DISPLAY**  
12-inch TFT LCD Touch Screen

**PIPELINE PRESSURE GAUGE** (air, oxygen, nitrous oxide)  
Range: 0-1MPa. Resolution: 0.05MPa  
Accuracy: full range ±2.5%

**AIRWAY PRESSURE GAUGE RANGE**  
Range: -10-100cmH2O. Resolution: 2cmH2O  
Accuracy: full range ±2.5%

**PHYSICAL TECHNICAL SPECIFICATION**

**ENVIRONMENTAL REQUIREMENTS**  
Temperature  
Operating: 50 - 104 °F (10 - 40 °C)  
Storage: 14 - 140 °F (-10 - 60 °C)  
Transport: -4 - 131 °F (-20 - 55 °C)  
Relative Humidity  
Operating: 15 - 90%RH (non-condensing)  
Storage: 15 - 90%RH (non-condensing)  
Transport: Not more than 93%, non-condensing.

Atmospheric Pressure  
Operating: 530 - 1060hPa (53 - 106kPa)  
Storage: 500 - 1060hPa (50 - 106kPa)  
Transport: 700 - 1060hPa (70 - 106kPa)

Power Supply: AC100-240V, 50Hz/60Hz

**TECHNICAL SPECIFICATIONS OF RESPIRATORY SYSTEM**  
Fresh gas compensation Flow compensation range: 1-10L/min  
Gas composition: O2, N2O, air and anesthetic agent

CO2 Absorbent  
Single absorber canister volume: 1500mL

Connection  
Common gas outlet: ISO5356 connector (standard 22mm outer diameter or 15mm inner diameter, tapered friction connector)

Breathing System Leakage Pressure: 3kPa, leakage flow ≤ 150mL/min.

Respiratory System Resistance  
Flow rate: 60L/min, expiratory resistance ≤ 5.5 cmH2O; inspiratory resistance ≤ 5.5 cmH2O

APL valve resistance  
Flow rate: 3L/min, flow resistance: 0.05 3kPa  
Flow rate: 30L/min, flow resistance: 0.1 0.5kPa

Connector leakage  
Under 30cmH2O and APL valve fully closed the leakage rate ≤ 50mL/min

One-way valve resistance  
Under dry state: ≤ 0.15kPa

Pressure produced by wet one-way valve  
<0.14kPa

Pressure of opening wet one-way valve  
<0.1kPa

System Compliance  
Internal capacity (contains canister) about 7.6L

Oxygen Flush: 25-75L/min  
02 supply failure alarm: <29 psi (200kPa)

02 Concentration  
Not less than 19%

Safety Valve  
Open pressure is 85 cmH2O, at a flow is 5L/min.

**ANESTHESIA WORKSTATION PERFORMANCE**  
Maximal inspiratory pressure (85±10)cmH2O  
Complete machine noise: Normal work (excluding alarm), not greater than 60dB (A)  
Warm-up time: Less than 1 minute  
Minute volume: 0-30L/min  
Inspiratory flow: Maximum 75L/min

Pressure transmission range: 5-80cmH2O
# VENTILATION PARAMETER SETUP

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RANGE</th>
<th>INCREMENT</th>
<th>FACTORY DEFAULT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vt</td>
<td>15-300 mL(child)</td>
<td>5mL(below 100)</td>
<td>120mL(child)</td>
<td>15-100mL, error: ±10mL; 100-1500mL, error: ±10%.</td>
</tr>
<tr>
<td></td>
<td>15-1500mL(adult)</td>
<td>10mL(100-1000)</td>
<td>50mL(above 1000)</td>
<td></td>
</tr>
<tr>
<td>Freq.</td>
<td>4-1000bpm</td>
<td>1bpm</td>
<td>20bpm(child)</td>
<td>Error is ±1bpm or ±3%, whichever is greater.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6bpm(adult)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4bpm(SIMV)</td>
<td></td>
</tr>
<tr>
<td>I:E</td>
<td>4:1-1:8</td>
<td>0.5</td>
<td>1:2</td>
<td>Error: ±20%.</td>
</tr>
<tr>
<td>TINSIP</td>
<td>0.2-5.0 secs</td>
<td>0.1sec</td>
<td>1sec(child)</td>
<td>This function is available for SIMV mode only. Error is ±10% or 0.1s, whichever is greater.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2sec(adult)</td>
<td></td>
</tr>
<tr>
<td>PEEP</td>
<td>OFF, 3-30cmH2O</td>
<td>1cmH2O</td>
<td>OFF</td>
<td>For OFF, PEEP value is 1-3cmH2O; For 3-30cmH2O, error is ±2cmH2O or ±10%, whichever is greater.</td>
</tr>
<tr>
<td>FreqMIN</td>
<td>2-60bpm</td>
<td>1bpm</td>
<td>4bpm(child)</td>
<td>This function is available for PS mode only. Error is ±1 bpm or ±3%, whichever is greater.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2bpm(adult)</td>
<td></td>
</tr>
<tr>
<td>TP</td>
<td>OFF, 5%-60%</td>
<td>5%</td>
<td>10%</td>
<td>This function is available for VCV and SIMV mode only. Error is ±20% or ±0.05secs of set value, whichever is greater.</td>
</tr>
</tbody>
</table>

## MONITORING PERFORMANCE

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RANGE</th>
<th>STEPPING VALUE</th>
<th>ACCURACY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vt</td>
<td>0-3000mL</td>
<td>1mL</td>
<td>20-100mL, error: ±10mL; 100-3000mL, error: ±10%.</td>
</tr>
<tr>
<td>MV</td>
<td>0-30mL</td>
<td>1mL</td>
<td>Error is ±10% or ±1L, whichever is greater.</td>
</tr>
<tr>
<td>Freq.</td>
<td>0-110bpm</td>
<td>1bpm</td>
<td>±1bpm</td>
</tr>
<tr>
<td>PEAK</td>
<td>-20-99cmH2O</td>
<td>1cmH2O</td>
<td>±(2 cmH2O + 4% of reading)</td>
</tr>
<tr>
<td>MEAN</td>
<td>-20-99cmH2O</td>
<td>1cmH2O</td>
<td>±(2 cmH2O + 4% of reading)</td>
</tr>
<tr>
<td>PLAT</td>
<td>-20-99cmH2O</td>
<td>1cmH2O</td>
<td>±(2 cmH2O + 4% of reading)</td>
</tr>
<tr>
<td>FiO2</td>
<td>18-100%</td>
<td>1%</td>
<td>Error: ±3%(Concentration)</td>
</tr>
<tr>
<td>Lung Compliance</td>
<td>0-250mL/cmH2O</td>
<td>1mL/cmH2O</td>
<td>Error is ±15% or ±5mL/cmH2O, whichever is greater.</td>
</tr>
<tr>
<td>PEEP</td>
<td>-20-99cmH2O</td>
<td>1cmH2O</td>
<td>±(2 cmH2O + 4% of reading)</td>
</tr>
<tr>
<td>PAW</td>
<td>-20-99cmH2O</td>
<td>1cmH2O</td>
<td>±(2 cmH2O + 4% of reading)</td>
</tr>
</tbody>
</table>

Battery voltage status display

- 100%, 75%, 50%, 25%, 0%. When battery is used to supply power, this sign displays remaining available electric voltage. When the Anesthesia Workstation is connected to AC power, this sign means charging.

Paw-t wave form

- Pressure monitor range: 0-60cmH2O. According to different airway pressure. The increment of the wave form displayed is different according to the airway pressure range. 0-10cmH2O, pressure axis increment: 5cmH2O 0-30cmH2O, pressure axis increment: 10cmH2O 0-90cmH2O, pressure axis increment: 20cmH2O Time axis is a fixed range (the axis of Flow-t, Paw-t is same): When gas module is opened, 0 -15 secs; when gas module is closed, 0-20 secs.

Flow-t Wave form

- Display range of flow rate: -90-90L/min, gain: 45L/min. On time axis, the positive axes represents inspiratory direction; under the time axis, the negative axes represents expiratory direction. Flow rate is 0L/min, which means there is no gas flow rate in airway.

CO2 time wave form

- Optional CO2 display range is 0-76mmHg, increment is 38mmHg. Time axis is a fixed range. When gas module is opened, 0 -15s; when gas module is closed, 0 -20s.

P/V Loop

- X axes displays PAW: range is -20-120cmH2O, increment is 60cmH2O. Y axes displays tidal Volume: range is 0 1600ml, increment is 800ml.

F/V Loop

- X axes displays tidal Volume: range is 0-1600ml, increment is 800mL. Y axes represent Flow: range is -120-120 L /min, increment is 60L/min; The positive axes represent expiratory flow rate, the negative axes represent inspiratory flow rate.