

# Advancing care is... OUR VISION

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.





## ADVANCED TECHNOLOGY SIMPLIFIED

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, N20, 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 sscreen. 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<sup>™</sup>-compatible mounts and holds one or two vaporizers. Sevoflurane, Isoflurane, Desflurane, Enflurane, and Halothane are available.





## MODERN AND USER-FRIENDLY DESIGN



## Pin Index Cylinder Yokes

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



## Wheel Lock

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



## 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.



## 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)×760mm(W)×760mm(D) 56in(H)x30in(W)x30in(D)

Weight Approx.286lbs (130kg)
Top shelf bearing limit Maximum 55lbs (25)kg

**CASTER** 

5in (125mm), one foot braking system

**DRAWER** 

Three drawers have the same size, and all are 5.12in(H)x14.29in(W)

x13.90in(D) 130mm(H)×363mm(W)×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: -10-100cmH20. Resolution: 2cmH20

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)

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: 02, N20, 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  $\leq 150mL/min$ .

**Respiratory System** 

Resistance Flow rate: 60L/min,

expiratory resistance ≤ 5.5 cmH20; inspiratory resistance ≤ 5.5 cmH20

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 30cmH20 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 <150mL/30cmH20, standard pipeline

Internal capacity

(contains canister) about 7.6L

Oxygen Flush25-75L/min

02 supply failure alarm <29 psi (200kPa) 02 Concentration Not less than 19%

Safety Valve Open pressure is 85 cmH20, at a flow is 5L/min.

#### **ANESTHESIA WORKSTATION PERFORMANCE**

Maximal inspiratory pressure (85 $\pm$ 10)cmH20

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 5-80cmH20







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## **ADS II - ANESTHESIA DELIVERY SYSTEM TECHNICAL SPECIFICATIONS:**

#### **VENTILATION PARAMETER SETUP**

PARAMETER	RANGE	INCREMENT	FACTORY DEFAULT	REMARKS
Vt	15-300 mL(child) 15-1500mL(adult)	5mL(below 100) 10mL(100-1000) 50mL(above 1000)	120mL(child) 500mL(adult)	15-100mL, error: ±10mL; 100-1500mL, error: ±10%.
Freq.	4-100bpm	1bpm	20bpm(child) 8bpm(adult) 4bpm (SIMV)	Error is ±1bpm or ±3%, whichever is greater.
I:E	4:1-1:8	0.5	1:2	Error: ±20%.
TINSP	0.2-5.0 secs	0.1sec	1sec(child) 2sec(adult)	This function is available for SIMV mode only. Error is $\pm 10\%$ or 0.1s, whichever is greater.
PEEP	0FF, 3-30cmH20	1cmH20	OFF	For OFF, PEEP value is 1-3cmH20; For 3-30cmH20, error is ±2cmH20 or ±10%, whichever is greater.
FreqMIN	2-60bpm	1bpm	4bpm(child) 2bpm(adult)	This function is available for PS mode only. Error is $\pm 1$ bpm or $\pm 3\%$ , whichever is greater.
TP	OFF, 5%-60%	5%	10%	This function is available for VCV and SIMV mode only. Error is $\pm 20\%$ or $\pm 0.05$ secs of set value, whichever is greater.
PARAMETER	RANGE	STEPPING VALVE	FACTORY DEFAULT	REMARKS
Trigger	1-15L/min	1L/min	2L/min(child) 3L/min(adult)	This function is available for SIMV and PS mode only.  Error is ±15% or ±1L/min, whichever is greater.
PTARGET	5-70cmH20	1cmH20	10cmH20(child) 20cmH20(adult)	This function is available for PCV mode only.  Error is ±3 cmH20 or 10%, whichever is greater.
P	3-50cmH20	1cmH20	5cmH20	This function is available for SIMV and PS mode. Error is $\pm 3$ cmH20 or $\pm 10\%$ , whichever is greater.
TSLOPE	0-2 secs	0.1sec	0.5sec	Error: ±0.5 sec.
PMAX	10-70cmH20	1cmH20	40cmH20	Error is ±3cmH20 or ±10%,whichever is greater.

#### MONITORING PERFORMANCE

PARAMETER	RANGE	STEPPING VALUE	ACCURACY		
Vt	0-3000mL	1mL	20-100mL, error: ±10mL; 100-3000mL, error: ±10%.		
MV	0-30mL	1mL	Error is ±10% or ±1L, whichever is greater.		
Freq.	0-110bpm	1bpm	±1bpm		
PEAK	-20-99cmH20	1cmH20	±(2 cmH20 + 4% of reading)		
MEAN	-20-99cmH20	1cmH20	±(2 cmH20 + 4% of reading)		
PLAT	-20-99cmH20	1cmH20	±(2 cmH20 + 4% of reading)		
Fi02	18-100%	1%	Error: ±3%(Concentration)		
Lung Compliance	0-250mL/cmH20	1mL/cmH20	Error is ±15% or ±5mL/cmH20, whichever is greater.		
PEEP	-20-99cmH20	1cmH20	±(2 cmH20 + 4% of reading)		
PAW	-20-99cmH20	1cmH20	±(2 cmH20 + 4% of reading)		
Battery voltage status display	100%, 75%, 50%, 25%, 0%. Wh connected to AC power, this sig		; this sign displays remaining available electric voltage. When the Anesthesia Workstation is		
Paw-t wave form	Paw-t wave form  Pressure monitor range: 0-80cmH20. According to different airway pressure. The increment of the wave form displayed is different according to the airway pressure range. 0-10cmH20, pressure axis increment: 5cmH20 0-30cmH20, pressure axis increment: 10cmH20 0-80cmH20, pressure axis increment: 20cmH20 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	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				
P/V Loop	X axes displays PAW: range is -20-120cmH20, increment is 60cmH20. 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.				



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