



HOUSTON INSTRUMENTS LTDA, es una sociedad comercial, con responsabilidad limitada, ubicada en la ciudad de Cali – Valle del Cauca, que tiene como objeto social principal, el mantenimiento, manufacturación, distribución y comercialización de toda clase de equipos médicos y repuestos de equipos médicos; la representación de firmas nacionales y extranjeras, fabricantes y distribuidoras de dichos equipos; la importación y exportación de equipos médicos y repuestos de estos, con personería jurídica, autonomía administrativa y patrimonio independiente.

VENTILADOR PORTABLE





ESPECIFICACIONES

Technical Specifications

Physical Specifications

Dimension: Width 300mm, Depth 160mm, Height 230mm, Weight 3Kg

Carrying Packages Dimension: Width 460mm, Depth 200mm, Height 400mm, Weight 7Kg

Packaging Dimension: Width 620mm, Depth 240mm, Height 410mm, Weight 11Kg

Storage/Shipping Requirements

Temperature: -20 to 70°C

Relative Humidity less than 93%

The atmosphere pressure: 70 to 106 kPa

Operating Requirements

Temperature: 5 to 40°C

Relative Humidity less than 80%

The atmosphere pressure: 70 to 106 kPa

Electrical Specifications

Input Voltage Requirements: AC Voltage 110V~240V; DC Voltage 12V

Inlet Battery: 12V, 2Ah (Can be used for 8 hours)

Frequency: 50Hz/60Hz

Power: 2A

Pneumatic Specifications

Pressurized Oxygen: 0.4MPa medical oxygen inlet or use 2L oxygen cylinder (Choice of suppliers)

Performance Specifications

Power: ON/OFF

Modes: CMV(IPPV), A/C(SIPPV), SIMV, SPONT, PEEP (Choice of suppliers)

Tidal Volume: 50~1200ml

Breath Rate: 5~60 bpm

PEEP: 0~2kPa

O2%: 45~90%

Sigh: 1~10 per 100 breath

Peep: 10-60hpa (Choice of suppliers)

Trigger Level: -10 ~ 0hpa

Over Pressure Relief: <6kpa

Alarms and Indicators

High Pressure Alarm Limit: 2~6kpa flash, red indicator

Low Pressure Alarm Limit: 0. 2~2kpa Red indicator

Alarm Silence: 120sec

Standard Accessories

Ventilator	1unit
Oxygen Cylinder	1pcs (2.5L can be used for 1 hour)
Breath Circuit	1pcs (1.2m)
Carrying Package	1pcs (all parts in it)
Breath Valve	1pcs
Mask	1pcs
Charger	1pcs
Battery	1pcs (can be used for 8 hours)
Wrench	1pcs
Oxygen Pressure Reducer	1pcs (for Normal Oxygen Cylinder)
Lung Simulators	1pcs
Hand Book	1pcs
CD For Operation	1pcs

Scope of Medical Ventilator



For First Aid



For Ambulance



For Transport



CONCENTRADOR DE OXÍGENO





ESPECIFICACIONES

Features

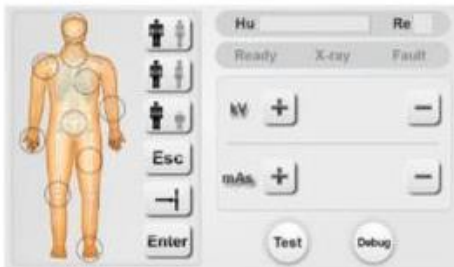
AC-5 is the model which can produce average 93% purity oxygen to meet big flow requirements of hospital, home, housecare use and etc. It can stably work in 24 hours a day and needs few maintenances of the main machine among its whole lifetime. Users do not need to open the machine shell to attain filters replacement.

1. 24 hours work continuously
2. Optional for using 2-way oxygen splitter for two peoples
3. Three reliable alarm systems: power off alarm, pressure circulation fault alarm and compressor fault alarm
4. AVG oxygen purity: $93\% \pm 3\%$
5. Low sound level: less than 45dB (A)
6. Net weight: only 15.9kg (for 5 liters)
7. Strong ABS shell: Anti-aging, fashion design

ESPECIFICACIONES TÉCNICAS

PARAMETER	SPECIFICATION
Oxygen flow	1-5 LPM
Output pressure	58.6 kPa
Power supply	AC220V±22V,50Hz;110V±10V,60Hz
Input power	510VA (AVER)
Oxygen concentration	1-5 LPM 93%±3%
Operation Environment	Temperature 5°C-40°C
	Humidity≤80%
	Atmospheric pressure:86kPa-106 kPa
OCSI indicator (optional)	85% above green
	85% below yellow
	82% below red
Net Weight	15.9kg
Noise	<45dB(A)
Size	32cm*43cm*62cm(l*w*h)
Operation regular	Time cycle/pressure rotation
Transportation/storage condition	Temperature -20°C-55°C
	Humidity≤90%
	Atmospheric pressure:86kPa-106 kPa
Equipment class&Type	Class II B

EQUIPO DE RAYOS X





ESPECIFICACIONES

Power Output	2.5KW
Frequency	25KHz
X-ray Tube	Fixed anode
	Focus 2.6mm
Tube Voltage	40~100KV (interval 1KV)
Tube Current	40~49KV 50mA 1~160 mAs
	50~59KV 42mA 1~160 mAs
	60~69KV 36mA 1~140 mAs
	70~79KV 31mA 1~125 mAs
	80~89KV 28mA 1~100 mAs
	90~100KV 25mA 1~80 mAs
mAs	1.0~160 mAs (45steps)
Power Supply	220V±10% 50Hz inner-resistance≤1.0

MONITOR DE SIGNOS VITALES





ESPECIFICACIONES

Feature

1. 12.1-inch Six Standard parameters: ECG, RESP, NIBP, SPO2, 2_TEMP, PR/HR
2. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratotable;
3. Efficient resistance to interference of defibrillator and electrosurgical cautery;
4. SPO2 can testing for 0.1% Weak;
5. RA-LL impedance Respiration;
6. Trend Coexist Display;
7. OxyCRG DyNamic View Display;
8. Bed to Bed view Display;
9. Networking capacity and nurse calling system;
10. Options: Central Monitoring System, IBP, EtCO2, Recorder, 12-Channel ECG, Touch Screen, VGA;
11. Built-in rechargeable battery 4400mAh;
12. 12.1" high resolution color TFT LCD display;
13. Large volume of tabular and graphic trends information storage and easy to recall;
14. Anti-ESU, anti- defibrillator;
15. Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)

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Technical Specification

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ESPECIFICACIONES TÉCNICAS

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)

Lead selection: I, II, III, avR, avL, avF, V,

Waveform: 2 ch

Lead mode: 3 Leads (R, L, F or RA, LA, LL)

Lead selection: I, II, III,

Waveform: 1 ch

Gain: '2.5mm/mV, '5.0mm/mV, '10mm/mV, '20mm/mV, auto

Heart Rate and Alarm

Range

Adult: 15 ~ 300 bpm

Neo/Ped: 15 ~ 350 bpm

Accuracy: $\pm 1\%$ or ± 1 bpm, which great

Resolution: 1 bpm

Sensitivity: > 200 (uV P-P)

Differential Input Impedance: > 5 M Ω

CMRR

- Monitor: > 105 dB
- Operation: > 105 dB
- Diagnosis: > 85 dB

Electrode offset potential: $\pm 300\text{mV}$

Leakage Current: < 10 μA

Baseline Recovery: < 3 S after Defi.

ECG Signal Range: $\pm 8\text{ mV}$ (Vp-p)

Bandwidth

- Surgery: 1 ~ 15 Hz
- Monitor: 0.5 ~ 35 Hz
- Diagnostic: 0.05 ~ 100 Hz

Calibration Signal: 1 (mV p-p), Accuracy: $\pm 5\%$

ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV

ARR Detecting

Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY,
R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC

Alarm: Available

Review: Available

Respiration

Method: Impedance between R-F (RA-LL)

Differential Input Impedance: $>2.5 \text{ M}\Omega$

Measuring Impedance Range: $0.3\sim5.0\Omega$

Base line Impedance Range: $0 - 2.5 \text{ K}\Omega$

Bandwidth: $0.3 \sim 2.5 \text{ Hz}$

Resp. Rate

Measuring and Alarm Range

-Adult: $0 \sim 120 \text{ rpm}$

-Neo/Ped: $0 \sim 150 \text{ rpm}$

Resolution: 1 rpm

Accuracy: $\pm 2 \text{ rpm}$

Apnea Alarm: $10 \sim 40 \text{ S}$

NIBP

Method: Oscillometric

Mode: Manual, Auto, STAT

Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480 (Min)

Measuring Period in STAT Mode: 5 Min

Pulse Rate Range: 40 ~ 240 bpm

Alarm Type: SYS, DIA, MEAN

Measuring and alarm range

Adult Mode

-SYS: 40 ~ 270 mmHg

-DIA: 10 ~ 215 mmHg

-MEAN: 20 ~ 235 mmHg

Pediatric Mode

-SYS: 40 ~ 200 mmHg

-DIA: 10 ~ 150 mmHg

-MEAN: 20 ~ 165 mmHg

Neonatal Mode

-SYS: 40 ~ 135 mmHg

-DIA: 10 ~ 100 mmHg

-MEAN: 20 ~ 110 mmHg

Resolution Pressure: 1mmHg

Accuracy Pressure Maximum Mean error: ± 5 mmHg

Maximum Standard deviation: ± 8 mmHg

Overpressure Protection

-Adult Mode: 297 ± 3 mmHg

-Pediatric Mode: 240 ± 3 mmHg

-Neonatal Mode: 147 ± 3 mmHg

SpO2

Measuring Range: 0 ~ 100 %

Alarm Range: 0 ~ 100 %

Resolution: 1 %

Accuracy: 70% ~ 100% ± 2 %; 0% ~ 69% unspecified

Actualization interval: about 1 Sec.

Alarm Delay: 10 Sec.

Pulse Rate

Measuring and Alarm Range: 20~300bpm

Resolution: 1bpm

Accuracy: ± 2 bpm

Temperature

Channel: 2

Measuring and Alarm Range: 0 ~ 50 °C

Resolution: 0.1°C

Accuracy: $\pm 0.1^{\circ}\text{C}$

Actualization interval: about 1 Sec.

Average Time Constant: <10 Sec.

IBP(optional)

Label: ART, PA, CVP, RAP, LAP, ICP, P1, P2

Measuring and alarm range

-ART: 0 ~ 300 mmHg

-PA: -6 ~ 120 mmHg

-CVP/RAP/LAP/ICP: -10 ~ 40 mmHg

-P1/P2: -10 ~ 300 mmHg

Press Sensor

Sensitivity: 5 $\mu\text{V/V/mmHg}$

Impedance: 300-3000 Ω

Resolution: 1 mmHg

Accuracy: $\pm 2\%$ or $\pm 1\text{mmHg}$, which great

Actualization interval: about 1 Sec

Standard Packing List

5-lead ECG cable (including RESP)

Adult finger SpO2 sensor

Adult NIBP cuff

NIBP extension tube

TEMP sensor

AC power adaptor

ECG electrodes

Operation instruction

Optional Function

Central Monitoring System, IBP, EtCO2, Recorder,

12-Channel ECG, Touch Screen, VGA

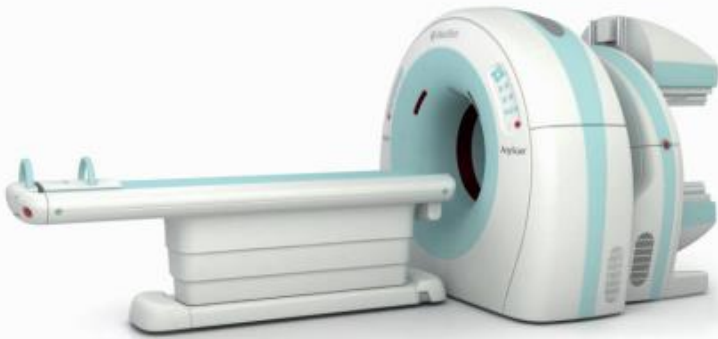
CAMA HOSPITALARIA UNIDAD DE CUIDADOS INTERMEDIOS (3 FUNCIONES)



CUARTO CALIENTE



GAMACÁMARAS

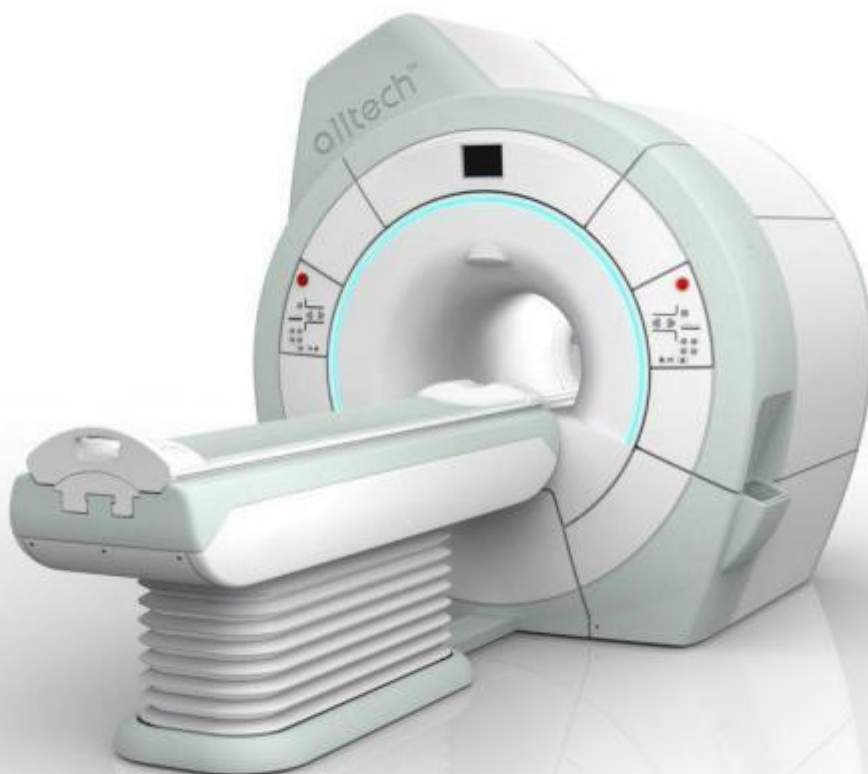


AnyScan® SC CT FIRST



AnyScan® S SINGLE

RESONADOR



TAPABOCAS KN95



MASCARILLAS - BLANCO

Blanco/Blanco

Termosellada en los 4 costados
Ergonómica de 3 pliegues
Con elásticos de sujeción
Alta resistencia bacteriana
Ajuste nasal ergonómico

Cara **Exterior**



Cara **Interior**

MASCARILLAS - AZUL

Blanco/**Azul**

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Ergonómica de 3 pliegues
Con elásticos de sujeción
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Cara **Interior**