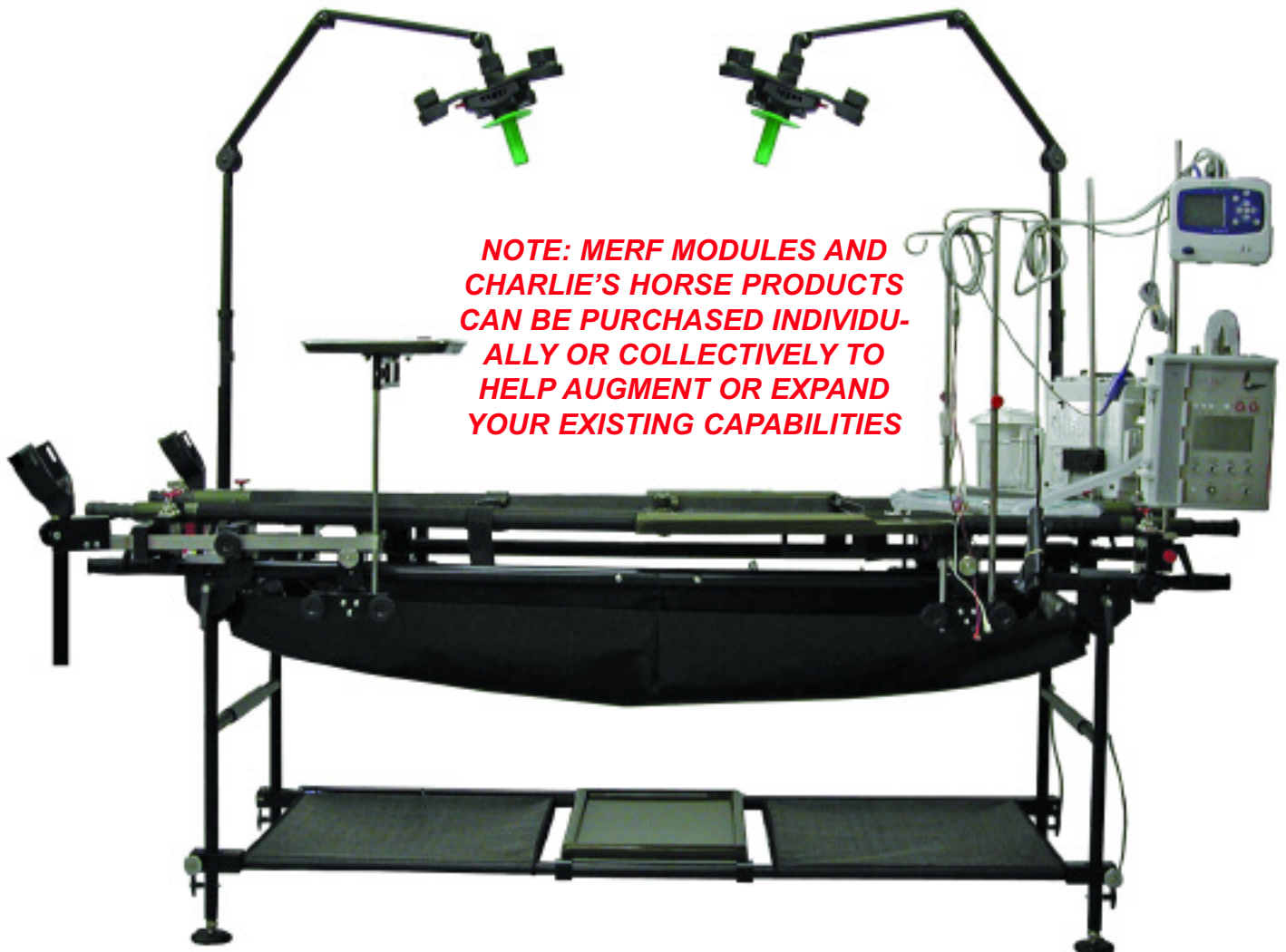


# **CHARLIE'S HORSE CRITICAL CARE MODULE**



# CRITICAL CARE



Operational within one hour of touch-down in any room of opportunity.

Compatible with NATO Spec. Litters/Stretchers.

1 SR901RT Multi-Purpose Utility Table. Fully adjustable to specific requirements within minutes. 6" inches of height adjustment; 1" Macro adjustments; 1" Micro adjustment.



Trendelenberg capability.

All Medical Accessories designed to adjust/attach/detach quickly as necessary.

Disposable Fluid Capture (6 liter absorption capability).



PAX LED Lighting System, rugged, lightweight, compact and durable. Dual light spectrum (2).

Equipment to run 1 O/R and 3 ICU Stations; 4 Impact Ventilators, 4 Impact Aspirators; 4 Welch Allyn Propaq LT Monitors and 2 Welch Allyn Halogen Head Lamps; 1 Magellan Anesthesia Machine; 1 SonoSite M-Turbo Ultra Sound; 1 Welch Allyn Mobile Acuity LT Control Station.



Final capabilities, configurations and equipment/supplies determined by end user.

# PAXLight™

## Specifications

### PAXLight™ Light Head

1. Operating Temperature: 0~48C (32~120F)
2. Storage Temperature: -20 to +85C.
3. Relative Humidity: 5% to 95% non-condensing.
4. Altitude: Max 10,000 feet
5. LEDs : 21 (12 white, 9 amber)



### PAXLight™ Power Supply

1. Input Voltage 100~240 VAC, 50~60 Hz
2. Input Current 2A.
3. Output voltage 24VDC, max 5.0 A
4. Operating Temperature: 0~48C (32~120F)
5. Storage Temperature: -20 to +85C.
6. Relative Humidity: 5% to 95% non-condensing.
7. Altitude: Max 10,000 feet.
8. Cooling convection - non vented.
9. Power Cable (Black) 300V, 18/3 SJOOW water resistant flexible to -40C.
10. Control Cable (Grey) 600 V 18/3 water and crush resistant flexible to -40C.

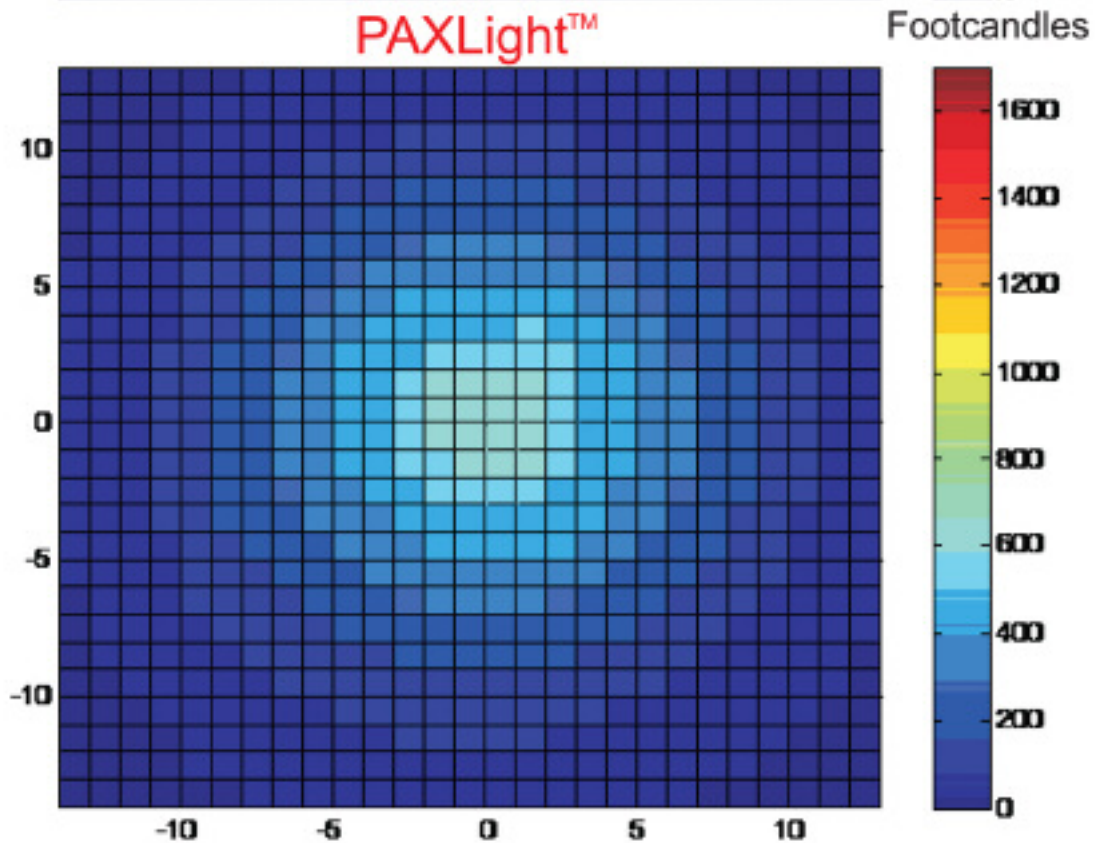
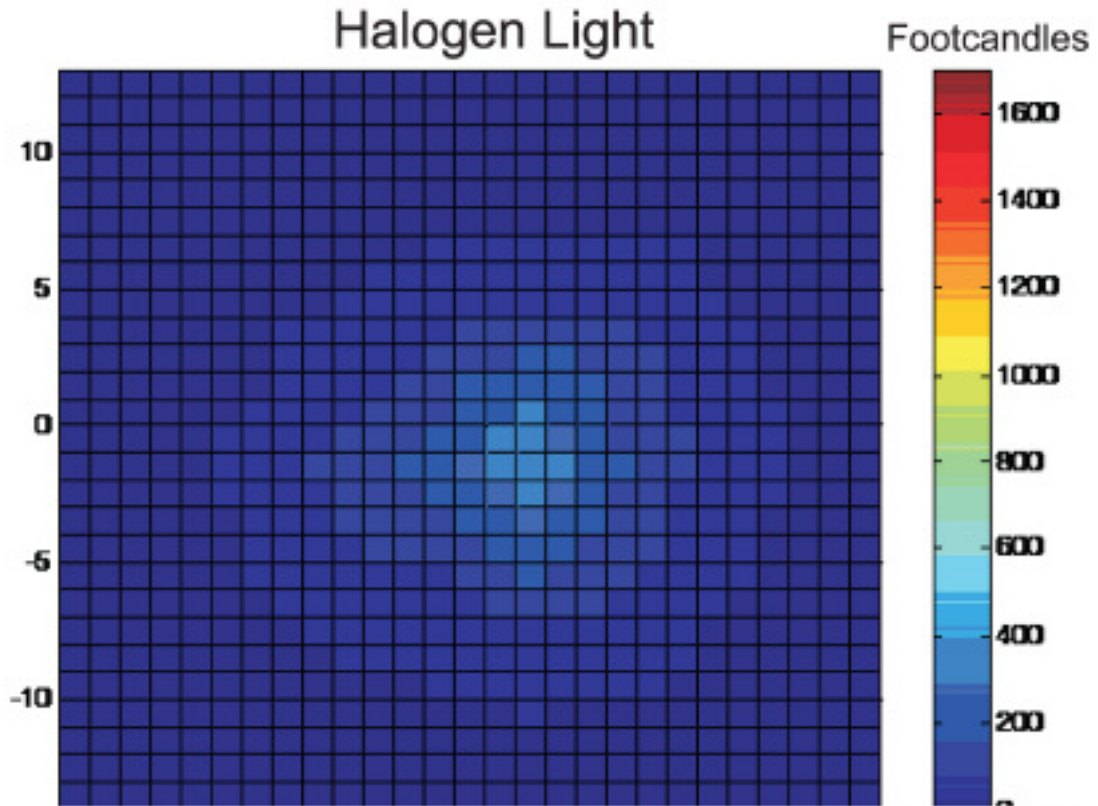
### Mechanical

1. Support Pole: 32"
2. Arm: 32" full reach
3. Body: 12" W x 13" L x 5" H, Weight 2.29 lbs.
4. Power Supply 1.9 lbs. (0.87kg) - 9"L x 3"W x 2" H



**NOTE: PAXLights can be  
purchased individually.**

# Light Output Comparison





## IMPACT MODEL 754 PORTABLE VENTILATOR

Operating Modes	Assist Control (A/C) Synchronized Intermittent Mandatory Ventilation (SIMV) Continuous Positive Airway Pressure (CPAP)	High Airway Pressure Alarm	Adjustable, 15 to 100 cmH <sub>2</sub> O in 1 cmH <sub>2</sub> O increments
Flow Rate	Adjustable, 0 to 60 LPM	Alarms Displayed (Audible and Visual)	Battery Low, External Power Low, Low Airway Pressure, O <sub>2</sub> Low/Fail, Disconnect, High Airway Pressure, Apnea, V <sub>T</sub> High PEEP, Ext Air Low/Fail, FIO <sub>2</sub> , Inverse I:E, Comp, Pressure Alarm Settings, Transducer Calibration, Transducer Calibration Abort, System Failure, Ventilator Fail
Tidal Volume (ATPD)	Adjustable, 50 to 3000 ml in 10 ml increments	Alarm Volume	80 dBA @1 ft
Ventilation Rate	Adjustable, 0 to 150 BPM in 1 BPM increments	Manual Breath	Yes
Inspiration Time	Adjustable, 0.1 to 3.0 seconds in 0.1 second increments; 1:2 I:E Ratio preset	Noise Level	-80 dBA @1 ft (compressor running)
FIO <sub>2</sub>	Adjustable, 21 to 100% in 1% increments	Control Accuracy	Within 10% of setting
Oxygen Input Pressure	50 PSI (-25%, +20%)	Power:	
PEEP	Adjustable, 1 to 20 cmH <sub>2</sub> O in 1 cmH <sub>2</sub> O increments	Battery Operating Time	4 hours (Compressor only) 11 hours (External gas only)
Sigh	Yes, every 100 ventilations or 7 minutes, whichever occurs first, duration = 150% of inspiratory time (truncated to 3 seconds max)	Operating Voltage Range:	
Pressure Plateau	Range, 5 to 90 cmH <sub>2</sub> O (referenced to High Pressure Alarm setpoint)	External AC to DC	Continuous @90 to 265 VAC, 47 to 440 HZ, auto-sensing
Trigger Sensitivity	Adjustable, 0.5 to 6 cmH <sub>2</sub> O below end pressure, default 2 cmH <sub>2</sub> O	External DC to DC	Continuous @11 to 15 Volts (Standard), 11 to 30 Volts (Optional)
Altitude Compensation	Yes (to 25,000 ft)	Rapid Charger	Optional
Indicators	LED: Green - Battery Charging Red - Alarm Condition, System Failure LCD: Control settings, status, alarm/alarms messages, airway pressure bar graph, pressure waveform	Battery Type	Sealed Lead Acid
Maximum Airway Pressure	100 cmH <sub>2</sub> O	Temperature Range:	
Airway Pressure Limit	Adjustable, 15 to 100 cmH <sub>2</sub> O in 1 cmH <sub>2</sub> O increments	Operating	-25 °C to 49 °C (-13 °F to 120 °F)
Low Airway Pressure Alarm	Adjustable, 0 (Off) to 50 cmH <sub>2</sub> O in 1 cmH <sub>2</sub> O increments	Charging	0 °C to 45 °C (32 °F to 114 °F)
		Long Term Storage	10 °C to 30 °C (50 °F to 80 °F)
		Communications Port	RS-232C
		Size	8.75" Wide x 11.5" High x 4.5" Deep (22.6 cm Wide x 29.2 cm High x 11.4 cm Deep)
		Weight	13 lbs (5.8 Kg)

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Operating Modes	Continuous Intermittent
Vacuum Range	Continuous - 0 to 550 mm Hg Intermittent - 0 to 200 mm Hg
Free Air Flow	Continuous - 30 LPM Intermittent - 5 to 8 LPM
Controls	Rotary, Rotary Valve
Indicators	LED - Digital Pressure Gauge Incandescent - External Power, Charge Meter - Battery Capacity
Alarms	Battery Capacity (Visual only)
Noise Level	67 dBA @ 1 m @ 30 LPM
Control Accuracy	Within +/- 10% of setting
Power:	
Battery Operating Time	4 hours (Compressor only) 11 hours (External gas only)
Operating Voltage Range:	
External AC to DC	Continuous @ 90 to 265 VAC, 47 to 440 HZ, autocensing
External DC to DC	Continuous @ 11 to 15 Volts (Standard), 11 to 30 Volts (Optional)
Rapid Charger	Optional
Battery Type	Sealed Lead Acid
Temperature Range:	
Operating	-25 °C to 49 °C (-13 °F to 120 °F)
Charging	0 °C to 45 °C (32 °F to 114 °F)
Long Term Storage	10 °C to 30 °C (50 °F to 80 °F)
Size	8.75" Wide x 11.5" High x 4.5" Deep (22.6 cm Wide x 29.2 cm High x 11.4 cm Deep)
Weight	13 lbs (5.8 Kg)

## IMPACT MODEL 326 PORTABLE ASPIRATOR



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# A rugged, self-contained central surveillance system

## Wireless System

The Mobile Acuity LT system with wireless Propaq® CS monitors or Propaq LT monitors sets up in minutes to allow you to remotely view vital signs data and patient information with the flexibility of a wireless network.



## Welch Allyn Propaq® LT

Small enough to fit in the palm of your hand. Rugged enough for you to deploy in just about any situation.

Deploy this rugged, easy-to-use, and flexible monitor in the field or in a fixed facility. Weighing in at approximately 2 lbs, the Propaq LT is a multi-purpose patient monitor that's flexible enough to be used in all types of terrain and environments. Compact enough to fit in the palm of your hand, the Propaq LT uses time-tested, durable Propaq technology to give you the accurate vital signs readings you need.

- Heart rate, 3- or 5-lead ECG, SpO<sub>2</sub>, NIBP and respiration
- Up to 24 hours of battery life
- Neonatal, pediatric and adult patient modes
- Continuous monitoring and spot-check modes
- Color LCD display with backlight, display timeout and lockout controls

**WelchAllyn®**

Advancing Frontline Care™

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that's easy to deploy anytime, anywhere.



## Welch Allyn Mobile Acuity® LT Central Station

With Mobile Acuity LT, central station monitoring can be deployed immediately in almost any location, increasing the level and timeliness of care. Self-contained with all the components you need to immediately set up a central surveillance system, Mobile Acuity LT lets first responders quickly establish treatment areas so patients can be stabilized and monitored when transportation is not available. With the availability of central surveillance monitoring, fewer emergency personnel can treat a greater number of patients and respond to changes in their status quickly because color-coded icons and alerts prompt caregivers to patients in need of attention.

Used in conjunction with the popular Welch Allyn Propaq® series monitors, Mobile Acuity LT instantly networks up to 12 patients and supplies the caregiver with the same alarm, alert, arrhythmia, and vital signs information that exists in hospital emergency departments. In addition, multiple systems can be deployed in the same area, allowing central monitoring of up to 120 patients at any Emergency Medical Delivery Area.

### Deliver Emergency Care Where It Is Needed

- Stabilize victims in the field when transportation is unavailable or compromised
- Set up monitoring facilities in forward areas rapidly
- On-site monitoring when contamination issues exist

### Potential Uses

- Emergency Preparedness for Mass Casualty Situations
- Military Operations in Forward Areas
- DOD Mobile Facilities
- Terrorist Attacks
- Natural Disasters
- Disaster Relief Medicine



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# Magellan-2200

## Anesthesia



**Military Rugged**  
**Easy to Transport**  
**Pneumatically Powered**

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# Oceanic Medical

## DIMENSIONS

<b>Height</b>	23 inches
<b>Depth</b>	23 inches
<b>Width</b>	17 inches
<b>Weight</b>	
• Free-Standing	45 lbs
• Enclosed in Carrying Case	100 lbs
<b>Machine Materials</b>	Aluminum, brass and plastic
<b>Carrying Case Materials</b>	Plastic, military grade
<b>Operating Temperature Range</b>	35 degrees F to 110 degrees F
<b>Required Gas Supply Sources</b>	
• O2 Main and Cylinders	38 to 70 psi (50 psi is optimal)
• Air and/or Air Compressor	38 to 70 psi (50 psi is optimal)
• Oxygen Concentrator	3 to 10 psi
<b>Flowmeter Fresh Gas Flow</b>	1 to above 20 lpm (each flowmeter)
<b>Oxygen Flush Valve</b>	Recessed, self-closing, push-button, color coded and labeled, provides 45-55 lpm constant flow, while push-button is depressed; may be used sparingly with O2 concentrator as O2 power source
<b>CO2 Absorber System</b>	King Systems KAB-9 (re-fillable) or KAB-1 (pre-filled/disposable)
<b>CO2 Absorber Canister Capacity</b>	400 grams soda lime
<b>Directional Valves</b>	Built in the CO2 Absorber
<b>CO2 Absorber Holding Bracket</b>	Plastic, secured with knob to main frame of machine
<b>Bag-Ventilator Switch/PRV and Scavenger Outlet Port</b>	Hand-operated selector switch and rotating knob for PRV and scavenging outlet
<b>Bellows</b>	Latex free, upward inflating, range from 0 to 1.6 L
<b>Bellows Pressure Relief</b>	Pre-set at 60 cmH2O
<b>Common Gas Outlet</b>	Quick-connect, size indexed
<b>Tubing Circuit</b>	King Systems F-360-61 or any standard anesthesia circle circuit
<b>Gas Pressure Hoses</b>	DISS and thread indexed, female connectors at both ends
<b>Gas Inlet Manifold</b>	DISS and thread indexed, male connectors with one-way valves

<b>Gas Inlet Manifold Filters</b>	Located behind Manifold Air and O2 Inlet male connectors
<b>Gas Inlet Pressure Regulators</b>	
• Main supply cylinder	DISS/thread indexed for O2
• Safety back up cylinder	Pin-indexed, yoke mounted for "D" and "E" cylinders for O2
<b>Oxygen and Air Supply Gauges</b>	0-3000 psi range, color coded and labeled
<b>Oxygen Supply Alarms</b>	
• Main and safety back-up	Pneumatically actuated when O2 supply falls below 30 psi
• O2 Concentrator	Pneumatically actuated when O2 supply falls below 1 psi
• Alarm power source	9-volt battery located in body of alarm box
• Alarm on/off	Labeled toggle switch located on body of alarm box
<b>Air and O2 Flowmeters</b>	Calibrated and scaled 0-10 lpm, color coded, O2 flowmeter has a fluted control knob for easy identification by touch
<b>Oxygen Concentrator</b>	To power O2 flowmeter only
<b>Air Compressor</b>	May be used to power ventilator and air flowmeter
<b>Oxygen Analyzer/Monitor</b>	OM-25-ME (or equivalent) Galvanic cell sensor, life expectancy 2 years under normal conditions
<b>Oxygen Analyzer Power Source</b>	2 each AA batteries, life expectancy approx. 3000 use hours
<b>Auxiliary O2 Flow Selector</b>	Scaled 0-10 LPM in set increments, used for pre/post anesthesia
<b>Vaporizer</b>	Penton SigmaDelta Series, bolt (cage) mounted, temperature compensated, very low maintenance
<b>Airway Pressure Gauge</b>	Dual scaled in cmH2O and mmHg, located on front panel of ventilator
<b>Pressure Gauge Tubing</b>	May be attached to bag/vent switch arm or to a point within the patient breathing circuit (operator's choice).
<b>Mechanical Ventilator</b>	
• Ventilator Pressure Relief	Pneumatically powered, time cycled, volume constant, volume variable
• Volume Range	Pre-set to maximum of 60 cmH2O located in main vent box
• Insp. Flow Range	0 to 1.6 L
• Insp. Time Range	0 to .90 lps
• Exp. Time Range	0.2 to 3.0 seconds
• Pressure Relief Valve	0.2 to 30 seconds
	Preset to 60 cmH2O
<b>Ventilator Gas Power Requirements</b>	40 to 70 psi, 50 psi optimal Use toggle switch to select gas source
<b>Waste Gas Scavenger</b>	Positive and negative relief valves, 1 L reservoir bag, vacuum control knob
<b>Total Machine Gas Leakage</b>	
@ 30 cmH2O	-0- ml/Min
@ 80 cmH2O	100 ml/min
<b>Internal System Compliance</b>	
@ 20 cmH2O	1.1 ml/cmH2O
@ 40 cmH2O	1.3 ml/cmH2O
<b>Internal System Resistance</b>	
@ 1.0 L/sec gas flow	4.11 cmH2O
@ 0.5 L/sec gas flow	1.80 cmH2O
<b>APL Valve Pressure Drop</b>	
@ 3.0 L/min gas flow	0.12 cmH2O
@ 30 L/min gas flow	1.03 cmH2O
<b>Storage</b>	
• Indoor	+ 160°
• Outdoor	- 30°
	Allow unit to warm to normal or temp for 1°

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# M-Turbo

# Ultrasound

Backed by a 5-year warranty and our 24-hour loaner program for maximum uptime.

5

Crisp and clear, featuring SonoHD™ Imaging Technology — with 16x the processing power of our previous generation.

Tough as nails. Drop tested to withstand the real world.

Capture quality video clips up to 60 seconds long.

PC- and Mac-friendly for effortless data management with 2 high-speed USB 2.0 ports.

Backlit keyboard is easier on the eyes.

Super fast. Go from off to scanning in less than 15 seconds.

Easy to clean and sanitize thanks to sealed elastomers.

Increased application flexibility with the optional Triple Transducer Connect.

Smaller than most laptops, this lightweight champion weighs under 7 pounds.



 SonoSite.

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# M-Turbo

# System Specifications

## System Specifications:

<b>Weight</b>	6.7 lb (3.04 kg) (system only)
<b>Dimensions</b>	11.9" L x 10.8" W x 3.1" H (30.2 cm L x 27.4 cm W x 7.9 cm H)
<b>Display</b>	10.4" (26.4 cm) diagonal LCD (NTSC or PAL)
<b>Architecture</b>	All-digital broadband
<b>Number of channels</b>	128 channels
<b>Dynamic range</b>	Up to 165 dB
<b>Gray scale</b>	256 shades
<b>HIPAA compliance</b>	Comprehensive tool set

## Imaging Modes and Processing:

Broadband, multifrequency imaging:  
2D / Tissue Harmonic Imaging / M-mode  
Velocity Color Doppler / Color Power Doppler  
PW, PW Tissue Doppler and CW

Image processing:  
SonoADAPT™ Tissue Optimization  
SonoHD™ Imaging Technology  
SonoMB™ Multi-beam Imaging  
Dual imaging  
Duplex imaging  
2x pan/zoom capability  
Dynamic range and gain

## Transducers:

Broadband and multifrequency:  
Linear Array, Curved Array, Phased Array

## User Interface and Remappable Controls:

- Softkeys to drive advanced features
- Programmable A and B keys: each can be assigned by the user for increased ease of use
- Alphanumeric QWERTY keyboard
- Track pad with select key for easy operation and navigation
- Doppler controls: angle, steer, scale, baseline, gain and volume
- Image acquisition keys: review, report, VCR, Clip Store, DVD, save
- Dedicated AutoGain and exam keys to allow quick activation

## Application Specific Calculations:

**OB/Gyn/Fertility:**  
Diameter/ellipse measurements, volume, six follicle measurements, estimated fetal weight, established due date, gestational age, last menstrual period, growth charts, user-defined tables, multiple user-selectable authors, ratios, amniotic fluid index, patient report

**Vascular:**  
Diameter/ellipse/trace measurements, volume, volume flow, percent diameter and area reduction, Lt/Rt CCA, ICA, ECA, ICA/CCA ratio, time average mean (TAM), peak trace, ICA/CCA ratio, angle correction, patient report

**IMT (Intima Media Thickness):**  
Embedded SonoCalc™ IMT software – automatic edge detection with mean and maximum thickness reporting

**Cardiac:**  
Complete cardiac calculations package and patient report including: ventricular, aortic and atrial measurements; ejection fraction, volume measurements, Simpson's rule, continuity equation, pressure half-time and cardiac output

## Onboard Image and Clip Storage/Review:

8GB Internal Flash memory storage capability  
Potential to store 64,000 images or 1,066 2-second clips  
Clip Store capability via either number of heart cycles (using the ECG) or time base. Maximum storage in ECG beats mode is 30 heart cycles. Maximum storage in time base mode is 60 seconds.  
One review up to 355 frame-by-frame images

## External Data Management:

**DICOM® Image Management (TCP/IP)**  
Print and Store  
Modality Work List

**PC Workstation Image Management (TCP/IP, USB or Flashcard reader)**  
SiteLink™ Image Manager – allows transfer, archiving, viewing and printing of high resolution bitmap images/clips, and batch compression to JPEG on PCs  
Direct writing capability to USB 2.0 mass storage removable media (PC and MAC compatible)  
Supported export formats are: MPEG4 (H.264), JPEG, BMP, and HTML



## Measurement Tools, Pictograms and Annotations:

**2D:** Distance calipers, ellipse and manual trace  
**Doppler:** Velocity measurements, pressure half time, auto and manual trace  
**M-mode:** Distance and time measurements, heart rate calculation  
**User-selectable text and pictograms**  
**User-defined, application-specific annotations**  
**Blopy guidelines**

## External Video and Audio (requires an MDSm, MDS Lite or separate minidock):

- S-video (In/out) to VCR or DVD for record and playback
- RGB or DVI output to external LCD display
- Composite video output (NTSC/PAL) to VCR or DVD, video printer or external LCD display
- Audio output
- Integrated speakers

## Power Supply:

System operates via battery or AC power  
Rechargeable lithium-ion battery  
AC: universal power adapter, 100-240 VAC, 50/60 Hz input, 15 VDC output

## Mobile Docking Stations and Peripherals:

**MDSm – Convenient Workstation:**  
- Storage for fully integrated printer or DVD  
- Transducer holder and storage  
- Optional Triple Transducer Connect allows the user to quickly activate transducers electronically  
- Optional foot switch  
- Optional 15" (38 cm) (diagonal) DVI monitor

**MDS Lite – Convenient Workstation:**  
- Storage for fully integrated printer or DVD  
- Transducer holder and storage  
- Optional Triple Transducer Connect allows the user to quickly activate transducers electronically  
- Optional foot switch

**Printers:** Medical-grade black and white or color  
**External storage devices:** Medical-grade DVD  
**External data input devices:** Bar code reader  
**ECG module:** 3-lead ECG – works with standard ECG leads and electrodes  
External analog ECG input also available

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