



**COVIDIEN**

*positive results for life™*

**Newport™ HT70 Plus Ventilator**

# Ideal for Use in a Wide Range of Applications

## LONG-TERM CARE

- Easy to set up and use
- Small and portable
- Central monitoring/remote alarm compatible
- Oxygen monitor and alarms for 50 psi or low flow

## HOSPITAL

- Waveforms graphics
- On-airway flow sensor invasive or noninvasive use
- Customizable patient presets
- Event log and screens

## TRANSPORT

- Power and oxygen conserving
- O<sub>2</sub> cylinder use-time calculator
- Oxygen monitor with alarms
- Battery time estimator
- Rated for use in helicopter, fixed-wing and commercial flights

## HOME CARE

- Simplified full-color touch screen
- On-screen help guide
- Hot-swappable battery for continuous operation

## EMERGENCY PREPAREDNESS

- Fast setup with presets
- Rugged construction
- Alarm Quickset function
- Up to 10 hours operation on integrated battery\*



# Key Features that Benefit You

## CHOOSE YOUR APPLICATION DOMAIN

The Newport™ HT70 Plus ventilator touch screen can be set up to meet the needs of your staff and the ventilator user. Choose from hospital, transport or basic domains. In the hospital domain you have full access to all screens. In basic domain, screens are simplified and user access is limited. In transport domain, essential monitoring, alarms and setting parameters are accessible and easy to view.

## EXCEPTIONAL CLINICAL CAPABILITY

For responsive and sensitive triggering, the Newport HT70 Plus ventilator offers a choice of flow or pressure triggering to meet the needs of patients from 5 kg to adult. The ventilator offers advanced comfort and synchrony features with pressure support, and provides exceptional leak management for noninvasive or cuffless trach applications. The built-in oxygen monitoring with alarms brings the Newport HT70 Plus ventilator's portable ventilation to a higher level of clinical care.

## CUSTOMIZABLE FEATURES TO MEET YOUR REQUIREMENTS

Use your patient protocols to customize your preset options and activate them at the touch of a button for quick and easy patient setups. Backup ventilation can be linked with either the Low Minute Volume alarm or the Apnea alarm, or both if you prefer.

## HELP IS ONLY A TOUCH AWAY

The Newport HT70 Plus ventilator Help button provides instant access to useful information on all the features and alarms on the ventilator. Simply touch the [?] icon and then touch a button, and an explanation of that feature appears on the screen.

## TOTALLY SELF-SUSTAINING

The Newport HT70 Plus ventilator does not need external compressed gas from a compressor or a cylinder. Our engineers have designed a patented, micro-piston pump that runs cool and quiet and is power efficient. Our high-quality manufacturing standards ensure reliability and durability for the life of the product.

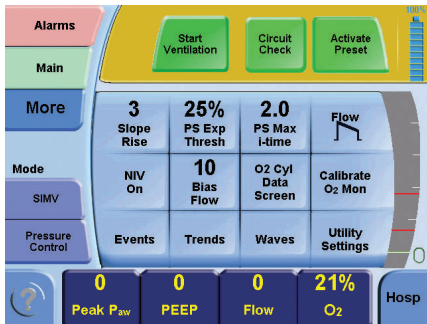
## CONTINUOUS BATTERY OPERATION

The Newport HT70 Plus ventilator internal dual battery system incorporates the latest lithium-ion technology with a primary hot-swappable battery for up to 10 hours of operation\* and a secondary backup battery with a minimum of 30 minutes of power. Need more time? Simply swap out the Power Pac battery with a fresh one for uninterrupted operation. No tools are needed. Both batteries are fully recharged in only three hours.

For a long transport, a full day at the park or in case of a power emergency, the Newport HT70 Plus ventilator can give ventilator users added security and peace of mind.



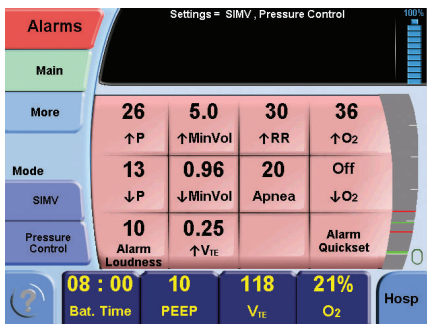
# Primary navigation screens



## MORE SCREEN

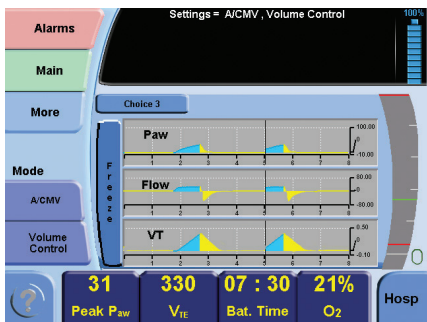
Additional advanced features are accessed on the More screen

- Patient comfort and leak management settings
- O<sub>2</sub> cylinder calculator and O<sub>2</sub> monitor calibration
- Waveforms, events, trends and utility settings
- NIV with adjustable bias flow and alarm management



## ALARM SCREEN

All alarm settings are conveniently located on one screen. The Alarm Quickset function automatically sets the limits for user adjustable alarms. Fast, easy and safe.



## WAVEFORM SCREEN

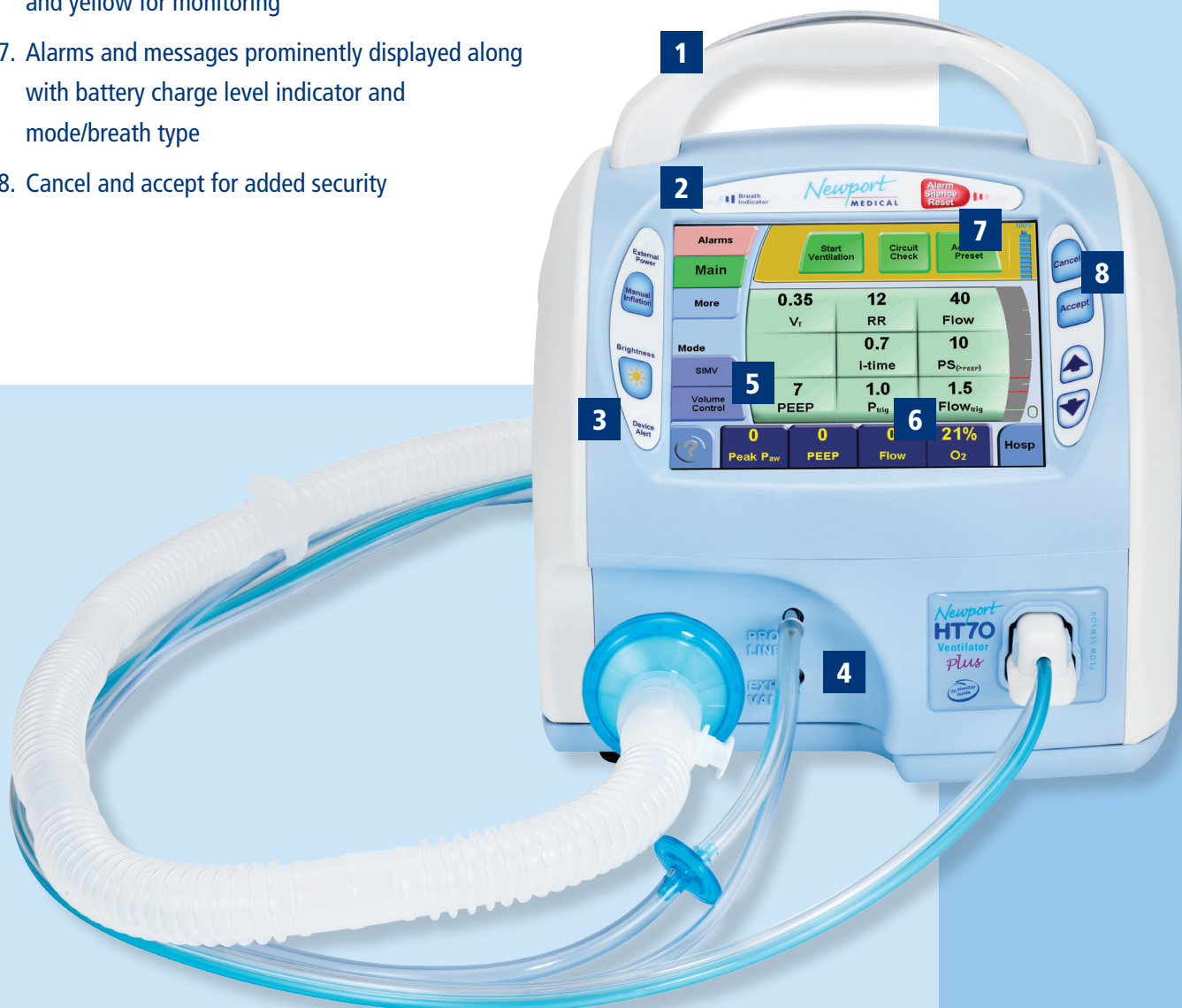
Display from one to three waveforms for flow, pressure or tidal volume on the screen. Each breath is color coded to show the inspiratory and expiratory phase.



# Simple Straightforward Controls

The Newport™ HT70 Plus ventilator's full-color touch screen makes it easy to set up. The monitoring, ventilation parameters and alarms on the touch screen are color coded for quick recognition.

1. 360-degree alarm lamps in the handle are viewable from front and back
2. Breath indicator flashes green to confirm delivery of each breath
3. Panel buttons ergonomically designed for comfort and ease of use
4. Easy access to breathing circuit and flow sensor connections for quick setup
5. Full-color touch screen is clear and crisp for easy viewing
6. Color-coded screens: green for parameters, red for alarms and yellow for monitoring
7. Alarms and messages prominently displayed along with battery charge level indicator and mode/breath type
8. Cancel and accept for added security



## PATIENT RANGE

Infant/Pediatric (≥5 kg) - Adult

## CONTROLS/SETTINGS

Modes (Pressure or volume)	A/CMV, SIMV, SPONT
NIV (Noninvasive ventilation)	On/off in all modes
VT (Tidal Volume)	50 to 2,200 mL
RR (Respiratory Rate)	1 to 99 b/min
i Time (Inspiratory Time)	0.1 to 3.0 sec
PEEP/CPAP	0 to 30 cm H <sub>2</sub> O/0 to 30 mbar
PS (Pressure Support)	0 to 60 ccm H <sub>2</sub> O/0 to 60 mbar <sup>†</sup>
<sup>†</sup> PEEP + PS cannot exceed 60 cm H <sub>2</sub> O/mbar	
Flow	6 to 100 L/min
I:E Ratio	1:99 to 3:1
PC (Pressure Control)	5 to 60 cm H <sub>2</sub> O/5 to 60 mbar
Ptrigger (Sensitivity)	-9.9 to 0 cm H <sub>2</sub> O/-9.9 to 0 mbar
Flow Trigger <sup>††</sup>	0.0 to 10.0 L/min, Off

<sup>††</sup>With on-airway flow sensor in use

Manual Inflation	3 sec maximum
O <sub>2</sub> (oxygen)	21% to 100%
Bias Flow	NIV off: 7 L/min w/PEEP NIV on: 3 to 30 L/min w/PEEP
PS Max i time	0.1 to 3.0 seconds
PS % Exp. Threshold	5% to 85%
Slope/Rise	1 to 10
Flow Wave Pattern	Square or descending
Auto Lock function	On/off
Language Selection	Multiple language options

## MONITORED PARAMETERS

Paw (Peak, Mean, Base)	V <sub>T</sub> /V <sub>T</sub> E (insp./exp. tidal volume)
MV <sub>E</sub> /MV <sub>I</sub> (insp./exp. min volume)	Peak insp. flow
RR tot (total respiratory rate)	Internal dual battery system
O <sub>2</sub> Concentration	I:E ratio
O <sub>2</sub> Cylinder Time	Bat. time

## ALARMS

High/Low Airway Pressure	Low Battery
High/Low Baseline Pressure	Alarm Silence/Reset
High Resp. Rate	Device Alert
High/Low Minute Volume	High Tidal Volume
Apnea	Backup ventilation alert
High/Low O <sub>2</sub>	Airway flow sensor disconnect

## POWER REQUIREMENTS

100-240 VAC, max. 2A, 50/60 Hz

12-24 VDC, max. 5A

0.1A at nominal setting

## DIMENSIONS

Width	9.75 in. (24.74 cm)
Depth	11 in. (27.94 cm)
Height (includes handle)	10.25 in. (26.04 cm)
Weight	15.4 lbs (6.9 kg)
Touchscreen	5.2 in. (13.20 cm) X 3.9 in (9.90 cm) nominal 7 in. (17.78 cm) diagonal

## INTERNAL DUAL BATTERY SYSTEM

Primary Internal Power Pac Battery	Lithium ion - provides up to 10 hours of operation*
Secondary Internal Backup Battery	Lithium ion - minimum of 30 minutes of operation

## SPECIALTY SCREENS

Events	Records up to 1,000 events with parameter settings
Trends	Displays trend graphs for last 72 hr
Waveform Graphics	Flow/pressure/tidal volume
Help	Touch any button for a tutorial of that feature
Domains	Basic, transport and hospital
Export Data	Capture/download events and trends
Patient Presets	Customized or default
Customized Backup Ventilation	Link with apnea and/or low MV and customize settings

## ORDER INFORMATION

HT70PM-XX-YY <sup>††</sup>	Newport HT70 Plus ventilator (full features)
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<sup>††</sup>All models are available with these configurations:

### XX - Overlay language

WW - English • SY - Symbol • CN - Chinese • ES - Spanish • JP - Japanese  
PT - Portuguese • RU - Russian • VT - Vietnamese

### YY - Power cord style

NA - North American • EU - European • UK - British

OPRHT70-2-CD	Newport HT70 Plus Operator's Manual CD - all languages
CRT3250A	Newport HT70 ventilator cruiser cart complete with power supply holder, flex arm and breathing circuit holder
BAT3271A	Power Pac battery with LED indicator
PWR3204P	Newport HT70 ventilator A.C. power supply, pinch release
PWR3207P	North American-style power cord
PWR3210P	British-style power cord
PWR3211P	European-style power cord
ADP3203P	D.C. auto lighter power adapter with pinch release
MXL70A-GR-DS	Air/oxygen mixer with green hose, DISS fitting <i>NOTE: additional configurations available</i>
FLT3209P-C	Mixer filter (five per pack)
RSV3215A	Low-flow oxygen reservoir kit
KIT3420A	Disposable flow sensor (SEN3420A) for pediatric and adult (4 per pack), for use with Newport HT70 Plus model only
HT460300	Air intake filter, disposable (five per pack)
HT6004701	Proximal inline filter, disposable (five per pack)
FLT3302P-C	Bacteria filter, disposable (40 per case)
BAG3270M	Cruiser convertible bag, blue fabric
BAG3271M	Cruiser convertible bag, yellow fabric
FVC-2005-HT70	Carrier with oxygen enclosure and bed rail system brackets
KIT3211A	Wall mount kit
MNT3208A	Single e-cylinder mount for CRT3215A
MNT3209A	Dual e-cylinder mount for CRT3215A

\*Fully charged at standard settings

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