

o_two™ *Quick Guide*

*From Setup to
Lifesaving in seconds.*



e500

Automatic Transport Ventilator

Preparation and Setup



① Battery and power

- Open the battery compartment and connect the internal battery lead.
- Connect the external AC/DC power cord to charge.

② Oxygen supply:



- Connect the oxygen supply hose to the ventilator's gas input connector and to a pressure regulator.
- Ensure the regulator delivers a continuous flow of at least 120 L/min with a dynamic pressure of 45-87 psi.
- Open the oxygen cylinder valve slowly and completely

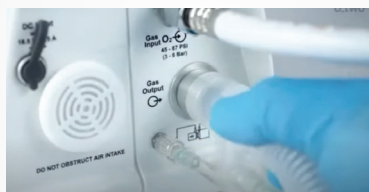


O₂ Hose

③ Patient Circuit:



- Connect the sensing hoses to sensor connectors #1 and #2.

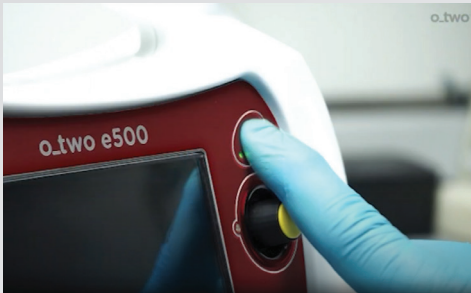


- Attach the 22 mm breathing hose to the gas output connector.

NOTE

Do not connect the circuit to the patient or test lung until the ventilator is powered ON.

Power ON and Start Ventilation

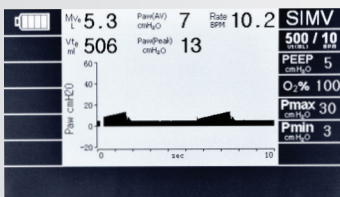


① Turn on the ventilator

- Make sure oxygen supply is open.
- Press and hold the ON/OFF key for 1 second.
- The green LED flashes rapidly, and the screen shows 12 preset tidal volume (Vt) and rate (BPM) combinations.

② Select the setting

- Rotate the Control Knob to highlight the desired combination.
- Press the knob to confirm the selection.
- Once confirmed, connect the circuit to the patient.



- The ventilator will start the ventilation immediately with the default mode, which is SIMV (Synchronized Intermittent Mandatory Ventilation).

NOTE

If no selection is made within 20 seconds, the ventilator will automatically start SIMV mode (500 ml/10 BPM).

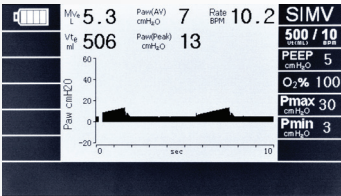
Ventilation Modes and Parameters

Changing Ventilation Mode:

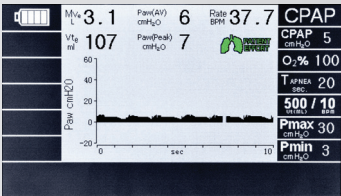


- Rotate the Control Knob to move the yellow cursor to the mode section.
- Press the knob to enter the mode menu.
- Rotate the knob to select one of the available modes:

SIMV (Synchronized Intermittent Mandatory Ventilation).

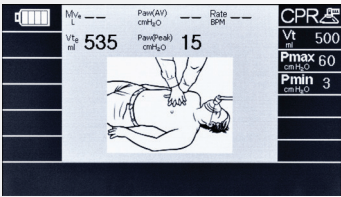


CPAP (Continuous Positive Airway Pressure).



CPR (Cardiopulmonary Resuscitation)

- Available for patients with Mask or intubated



Adjusting Ventilation Parameters



A Rotate the Knob to highlight a parameter (e.g., Vt/Rate, O₂%, PEEP).

B Press the knob to enter the setting.

C Rotate it to set the new value.

D Press it again to confirm the adjustment

NOTE

If no confirmation is made within 10 seconds, the change will be cancelled.

Key Controls & Buttons



A **ON/OFF Key**

Press for 1 second to turn ON; hold for 4 seconds to turn OFF.

B **Control Selection Knob**

Rotate to scroll; press to select or confirm.

C **Cancel**

Press it to cancel changes and return to previous settings.

D **Waveform**

Switches between pressure and flow waveforms.

- E Lock**
Press it to disable all controls except ON/OFF, Silence and Brightness. Press again to unlock.
- F Pause/Resume**
Press it to pause ventilation, confirm with the knob. Repeat to resume.
- G Silence**
Press it to mute audible alarms for 2 minutes; the visual alarm remains until the issue is corrected. **Avoid repeatedly silencing alarms without identifying the cause.**
- H Brightness**
Cycles between 4 screen brightness levels (Day/ Night).
- I Manual/Inspiratory Hold**
(available only in SIMV mode) Press it during the exhalation phase to deliver a manual breath. Hold it longer to start inspiratory hold (max 6 sec). Release it to resume normal cycling.

Alarms Overview



High-priority

(Red LED + Fast tone)

- Patient disconnect (BCI)
- High/Low airway pressure (Paw)
- No oxygen input (≤ 20 psi)
- Empty battery
- Apnea (no spontaneous effort)
- Input pressure too high (≥ 90 psi)



Medium-priority

(Yellow LED + Slow tone)

- Low oxygen pressure (< 40 psi)
- Low battery

NOTE

Refer to the full manual for detailed alarm types, definitions and troubleshooting.

Shutdown and Cleaning



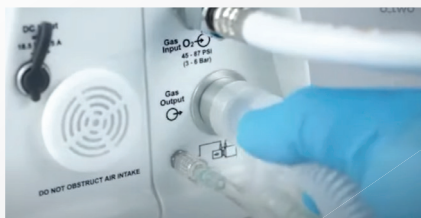
- Press and hold the ON/OFF key for 4 seconds to shut down the ventilator.



- Turn off the regulator to stop gas flow.



- Remove the oxygen hose from the regulator and ventilator.



- Disconnect and dispose of the single-use patient circuits as per institutional protocols.



- Clean and disinfect external surfaces according to the cleaning instructions in the manual.



DISCLAIMER

This Quick Guide is intended as a simplified reference for EMS providers. It is not a substitute for the full User Manual. For complete instructions on operation, safety, contraindications, maintenance, and troubleshooting, always consult the official User Manual for each device. All O-Two devices must be operated only by trained personnel and in accordance with local EMS protocols, medical direction, and established clinical guidelines.

For full operational guidance, consult the complete manual at:

<https://otwo.com/wp-content/uploads/2023/06/e500-IFU-REV10-JUL-2025.pdf>

www.otwo.com

45A Armthorpe Road, Brampton, ON, Canada, L6T 5M4

Telephone: +1 905 792-OTWO (6896) N.A. Toll Free: +1 800 387 3405

Facsimile: +1 905 799 1339 | resuscitation@otwo.com