Modular, Touch-Screen Infant Ventilator

SLE6000

OxyGenie®
Inspired Oxygen Control

SLE
When the smallest thing matters

Ventilate with Confidence

The SLE6000 has been designed to enable you to ventilate the critically ill infant as easily as possible. The ventilator's range of modes, functions and options and our support enable you to meet their unique physiological and developmental needs, for precise specialised treatment.

SLE has focused solely on the design and manufacture of infant ventilators in the UK since the 1980s and supplies them to over ninety countries. Decades of innovation are incorporated in the SLE6000's specialist lung-protective features which include effective High Frequency Oscillation Ventilation (HFOV) using unique bidirectional jets[1], Pressure Support Ventilation (PSV), Conventional ventilation and Volume Targeted Ventilation (VTV) and a choice of non-invasive ventilation modes (NIV) and High Flow Oxygen Therapy (HFOT).

The SLE6000 is unique in allowing both dual- or single-limb non-invasive ventilation interface options applied using a nasal mask or nasal prongs. NIV modes all have servo-controlled flow compensation for leaks to ensure consistent ventilation.

The SLE6000 can be fitted with individual combinations of parameters and add-on modules to provide the ideal ventilator for your requirements.

Watch the SLE6000 Overview video

SLE6000 shown with OxyGenie active

Choose your own combination of modules...

With the world of ventilation continuously changing, the SLE6000 has been conceived as a modular system – capable of adapting to new respiratory therapies as they emerge.

CORE V2.0

Standard conventional modes include CPAP, CMV, SIMV, PTV and PSV. Standard NIV modes include nCPAP and NIPPV.

HFOV

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HFOV: SLE's HFOV is powerful and effective [1,2], and includes VTV as standard. This software module allows both invasive and non-invasive (dual-limb) HFOV.

CO_2

See the brochure
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$EtCO_2$: Adds software that allows the SLE6000 to monitor and display $etCO_2$. It requires an Oridion MicroPod™ to interface with the SLE6000 and sampling lines

high-flow O_2

Go to web page

HFOT: High Flow Oxygen Therapy. Adds the facility to give nasal O_2 therapy with a high-flow nasal cannula and a single-limb circuit.

NIPPV Tr

NIPPV Tr: Adds a Triggered NIPPV mode to the ventilator using a proximal pressure trigger to initiate patient-driven pressure-supported breaths in dual-limb mode.

IntelliBridge

See the brochure

IntelliBridge Module: Allows a patient monitor to display ventilator data on-screen. Adds software that allows it to interface with the SLE6000.

OxyGenie

See the brochure
Go to web page

OxyGenie®: Continuously controls the FiO_2 to maintain a stable SpO_2 [5,7,8,9]. Requires the SpO_2 Software module and software to be installed.

SpO_2

Watch the video
See the brochure
Go to web page

SpO_2: Adds software that allows the SLE6000 to monitor and display SpO_2 [6]. Uses Masimo SET® technology and sensors.

NIV

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NIV: Adds the facility to ventilate using nCPAP and DuoPAP with a single-limb circuit using fluidic-flip nCPAP generators to deliver nCPAP and DuoPAP.

VTV

Go to web page

VTV: Adds VTV (Volume Targeted Ventilation) to all of the conventional invasive monitoring modes [3].

Watch the video
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Lunar Interface: Standard on all SLE6000 ventilators. Designed to be easy-to-learn and easy-to-use and reduce night-time glare and light-spillage.

Easy-to-Learn, Easy-to-use...

Primary Menu Buttons

With its simple menu structure the SLE6000 offers many features, but operation is still very easy to learn and use. Four simple choices give instant access to: Modes, Alarms, Utilities and Layout.

Alarms & Light bar

All messages and alarms in the information bar are easy to see from a distance and are colour-coded based on priority. A 360° light bar further enhances visibility.

Graphics Section

The customisable graphics section allows the user to switch between different screen layouts that can be configured to meet individual requirements.

Main Parameters

Primary ventilation parameters are permanently visible for immediate access and change between modes to show only the required parameters.

SLE6000 shown with OxyGenie active

Measured Values

Large and easy-to-read. Each parameter is clearly labelled, plus the user is easily able to switch between basic and advanced data display at any time.

Compact Design

The SLE6000 ventilator is housed in a single compact box, making it easier to clean and use.

The integrated touch-screen is angled for optimal visibility and easy to read from a distance.

Watch the Lunar Interface video

Everything at your fingertips

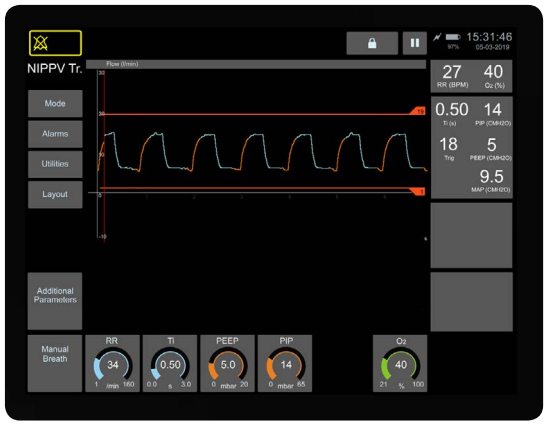
The SLE6000 sees the introduction of a new Lunar™ interface, which incorporates a low-glare screen (in keeping with the increased emphasis on developmental care) whilst setting a new benchmark in usability. Recent research in developmental care has shown that excessive light is involved in retinal damage, sleep pattern alterations, disturbance of circadian rhythms and poor growth[4].

*Synchronised Intermittent Mandatory Ventilation, or **SIMV**, is a patient interactive mode of ventilation. It can be used with PSV and/or VTV.*

***HFOV** can be defined as the delivery of small tidal volumes at very high rates and is lung protective. The rates are typically between 10Hz and 15Hz.*

***OxyGenie®** An automatic O_2 control for the SLE6000 ventilator. The SLE6000 continuously adjusts the FiO_2 to maintain a stable SpO_2[9].*

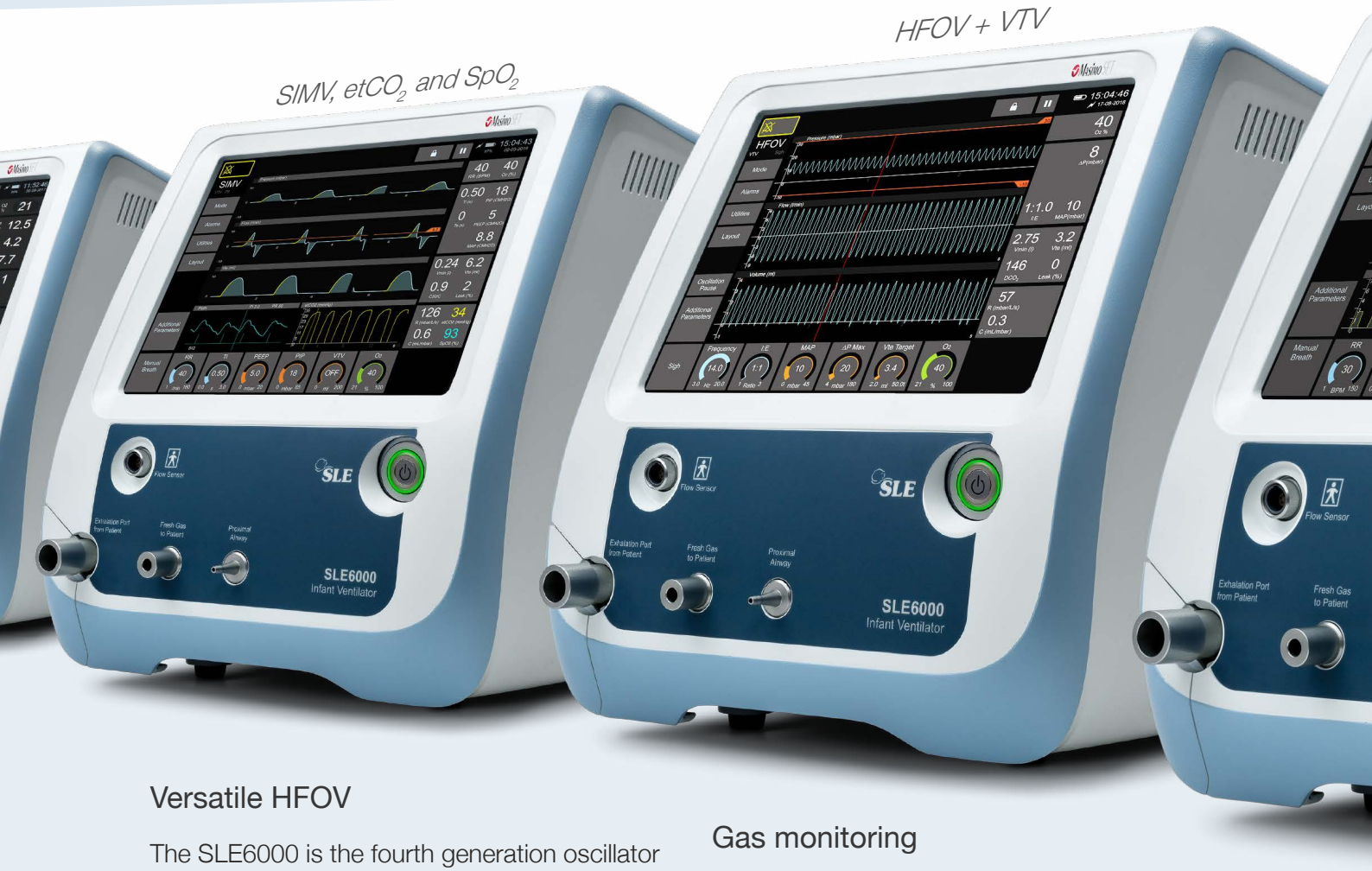
***Loops** A lung mechanics screen shows additional data - in this case two loops. A secondary column of data can be shown when required.*



*The SLE6000 can be used for **non-invasive ventilation** and High Flow Oxygen Therapy when these modules are installed on the ventilator.*

***Trends** Up to 14 days of trends are stored for all parameters. Zoom and scroll to find any parameter's values at a particular time.*

Available in any combination you need...



Versatile HFOV

The SLE6000 is the fourth generation oscillator from SLE. With SLE's unique valveless technology using high-speed bidirectional jets, it ensures an effective and controllable HFOV delivery[1].

Using a variety of patient interfaces, the SLE6000 is able to deliver High Flow Oxygen Therapy, conventional ventilation, non-invasive ventilation and HFOV (both invasively and non-invasively).

Watch the HFOV video

Go to the HFOV web page

Gas monitoring

The new modular system of the SLE6000 allows it to be easily upgraded to monitor your patients' two most important gases: oxygen and carbon dioxide.

Plug in modules give users the ability to monitor SpO_2 using Masimo® sensors, or $etCO_2$ using the Oridion Microstream™ system.

Both systems feature displays of digital values and waveforms and allow the user to store and retrieve up to 14 days of trend data. Simultaneous trends of ventilator parameters allow for easy correlation of 'cause and effect' and give far more meaning to the data.

Watch the SpO_2 video

See the SpO_2 brochure / See the $etCO_2$ brochure

Go to the SpO_2 web page / See the $etCO_2$ web page

OxyGenie®: Decreasing workloads

With their high workload medical staff caring for preterm infants often face, an automatic O_2 system that can help reduce the time spent adjusting the ventilator and allowing staff to spend more time caring for the patient becomes invaluable.

The introduction of OxyGenie®, a reliable, accurate controller for oxygen can give a reduction in manual interventions resulting in an improvement in efficiency of care [10].

OxyGenie®
Inspired Oxygen Control

See the OxyGenie brochure

Go to the OxyGenie web page

Versatile System

The SLE6000 gives you everything in a single configurable system that a customer would need from a conventional ventilator plus the options of SpO_2, OxyGenie®, CO_2, HFOV, VTV and more...

Using a single circuit increases the versatility, and gives major time and cost benefits - just change the circuit layout to single- or dual-limb and change the interface to any of ET tube/ CPAP/mask/prongs to support the baby from critical care to NICU to HDU to SCBU.

Watch the SLE6000 overview video

Go to SLE6000 web page

References

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Support materials

Brochures, videos and other support materials such as clinical and technical information are available at: www.sle.co.uk or click any of the links below:

Weblinks

SLE Home Page
SLE6000
SLE5000
SLE4000
OxyGenie
Partner Net (for distributors only)
HFOV
SpO_2
$etCO_2$

Videos

The SLE6000: An Overview
The SLE6000: The Lunar Interface
The SLE6000: The Valveless System
High Frequency Oscillation Ventilation
SpO_2 monitoring and accessories
Synchronised Intermittent Mandatory Ventilation
Non-invasive Ventilation and accessories

Brochures (PDF)

SLE5000
SLE4000
Patient Circuit Arm
Patient Circuits
SpO_2
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