

# THE ART OF DIAGNOSTICS

SCHILLER. We help save lives.





Alfred E. Schiller

## SWISS- DESIGNED INNOVATIVE MEDICAL TECHNOLOGY

SCHILLER was founded in 1974 by Alfred E. Schiller. Starting in a four-room flat as a one-man business, the company has become a successful group with more than 1000 employees, 30 subsidiaries and a global sales network. Today, SCHILLER is a world-leading manufacturer and supplier of devices for cardio-pulmonary diagnostics, rescue and patient monitoring as well as software solutions for the medical industry.

For almost five decades, SCHILLER has been committed to the fight against sudden cardiac death. The success story began with the launch of a handy emergency electrocardioscope. In one stroke, the company not only made a name for itself, but also set new standards.

Thanks to suitable therapies and rehabilitation measures, physicians can thus protect people of all age groups from sudden cardiac death.

As success grew, so did the product portfolio: devices such as blood pressure monitors and spirometers enhanced the range, and complete diagnostic stations and monitoring devices started being produced for clinics and medical practices.

We are pleased to present you our products in this brochure.

For more information please visit our website:  
[www.schillerindia.com](http://www.schillerindia.com)



# CONTENT

**4 RESTING ECG AND EXERCISE ECG**

**12 ECG AND ABPM HOLTER**

**15 PULMONARY FUNCTION TESTING**

**19 MONITORING**

**23 DEFIBRILLATORS**

**27 CPR DEVICE**

**29 VENTILATORS**

**33 PORTABLE CT**

**37 ROBOTICS**

**39 TELEMEDICINE**



## RESTING ECG

- › CARDIOVIT® FT-1
- › CARDIOVIT® AT-102/102 G2
- › CARDIOVIT® AT-1 G2

## EXERCISE ECG

- › SPANDAN CS-10/20
- › CARDIOVIT® AT-180
- › CARDIOVIT® CS-104

- › CARDIOVIT® CS-200 Office
- › CARDIOVIT® CS-200 Office Ergospiro
- › CARDIOVIT® CS-200 Excellence
- › CARDIOVIT® CS-200 Excellence Ergospiro

## REHABILITATION SYSTEM

- › ErgoSana Sprint Plus



# CARDIOVIT® FT-1

Maximum performance in a compact electrocardiograph

- ❖ 8" High-Resolution Multi-Touch Colour Display with simple swipe gesture
- ❖ Colour coded ECG display
- ❖ Compact, portable & smaller than a tablet
- ❖ Light weight, weighing 1.1 kg
- ❖ Real time simultaneous 12-lead ECG acquisition
- ❖ Onscreen Anatomical Hookup Advisor for real time signal preview and quality
- ❖ Lead reversal detection for misplacement of electrodes
- ❖ On-screen review of ECG, Interpretation & Measurements
- ❖ ETM Interpretation for Adult & Paediatric with ETM Sport
- ❖ High sampling frequency of 32,000 Hz
- ❖ Large internal memory of 350 ECG
- ❖ Extended battery backup of 4 hours of continuous display
- ❖ Integrated thermal printer

## OPTIONAL

- ❖ Culprit Coronary Artery Algorithm (CCAA) for STEMI detection
- ❖ SCHILLER link software for PDF export
- ❖ Data transfer with SEMA software
- ❖ Barcode Reader



CARDIOVIT® FT-1

## CARDIOVIT® AT-102/102 G2

Easy, smart and state-of-the-art

- ❖ Simultaneous acquisition of all 12-leads & 6/12-channel Display & Printout
- ❖ Large 6" \*\*/8"\* Colour LCD Screen
- ❖ 12 numbers of Mutli-Touch functional keys available\*
- ❖ Animated Anatomical Hook Up Advisor for ECG electrodes placement\*
- ❖ Alphanumeric keypad with direct function keys
- ❖ Detailed interpretation & Measurement software available
- ❖ Pacemaker Detection
- ❖ Internal Memory of 40\*\* / 350\* ECG Recordings
- ❖ Various Printout formats on internal thermal printer – 210 mm
- ❖ Battery backup of 3 hrs\*\* / 8 hrs\*
- ❖ Rhythm ECG Recording from 30 sec to 4 min\*\* / 10 min\*
- ❖ PDF Export\* and Print preview option is available
- ❖ SCHILLER Communication module for LAN transmission
- ❖ Advanced algorithm – ETM Interpretation for Adult & Paediatric with ETM Sport\*
- ❖ WLAN for data transfer to PC\*

### OPTIONAL

- ❖ External Monitor - VGA \*\*
- ❖ LAN \*\* (Standard in AT-102 G2)
- ❖ USB\*\* (Standard in AT-102 G2)
- ❖ Exercise ECG
- ❖ Work list option
- ❖ Barcode Reader
- ❖ SEMA ECG Data Management Software
- ❖ CCAA\*

'\*' Available only in AT-102 G2

'\*\*' Available only in AT-102



CARDIOVIT® AT-102 G2

## CARDIOVIT® AT-1 G2

5" color display for ECG preview & simplified keyboard for easy patient data entry

- ❖ 5" high resolution colour LCD display
- ❖ Optimal signal quality for adult & paediatric ECG
- ❖ Real-time signal preview & quality check, with lead reversal detection.
- ❖ ECG overview of all 3 channels including colour-coded lead quality check
- ❖ Easy patient data entry
- ❖ Battery backup: 4 hours of continuous operation with Pb gel rechargeable battery
- ❖ High-resolution thermal printer; with selectable lead formats; compatible with Z - folded 70\*80 mm
- ❖ Sampling frequency of 32,000 Hz
- ❖ ETM interpretation for adult and paediatric : 12-lead ECG interpretation program
- ❖ Memory: 100 ECGs in PDF format (only for export to USB stick)

### OPTIONAL

- ❖ CCAA



CARDIOVIT® AT-1 G2

## SPANDAN CS-10/20

### PC based Stress Test System

- ❖ Digital Signal Acquisition Module which eliminates noise and gives distortion-free ECG signal
- ❖ Display and printouts of 12-leads RAW ECG during Exercise Mode
- ❖ Full disclosure of all 12-leads
- ❖ The 12-lead RAW ECG Data is stored for the entire test and can be reviewed, reanalysed, beat by beat facility to view, compare and print Average Complex, ST graphs and tables of all 12-leads for all stages
- ❖ Laser printer provides high quality stage-wise printouts on ordinary A4 sized paper, saving on cost of consumables
- ❖ The final report includes information for Blood Pressure (entered manually), Heart Rate, Speed / Grade ST Trends, relating to stage-wise and Recovery Phase
- ❖ Automatic (**Only with CS-20**) / User selectable Isoelectric, J & Post J points during stress test Enlarged QRS complex with Dynamic Scanning Clinical history, medication,
- ❖ End Point Criteria are all pre-formatted
- ❖ Time based METS calculation
- ❖ Online Linked Median printing (**Only with CS-20**)
- ❖ Treadmill Soft Stop option for stopping the treadmill after 20 seconds in Recovery Mode
- ❖ Customised Lead Sequence for displaying 6 Channel of user choice
- ❖ User can add stage wise comment for the test (**Only with CS-20**)
- ❖ Lead with Maximum ST Level Depression or Elevation in the Average Complex
- ❖ Identity Card ECG printout
- ❖ User can edit Summary Report and can change BP, ST level and slope, HR values, medication, etc. before taking a print
- ❖ User selectable Protocols and stress information

### OPTIONAL

- ❖ Spirometry (**Only with CS-20**)
- ❖ Wireless transmission via Bluetooth of real time 12-lead ECG data from patient to acquisition system (**Only with CS-20**)



Spandan CS-10/20

## CARDIOVIT® AT-180

High-performance 16-channel ECG System

This multi-use workstation combines the largest touch screen with advanced clinical tools. SCHILLER's high-end electrocardiograph AT-180 is based on the new SCHILLER software platform. It offers robust design for the busiest hospitals, as well as a combination of applications that makes it the ideal multi-use workstation for private practices.

- ❖ 18.5" high-resolution multi-touch screen for easy ECG review
- ❖ Full-size keyboard with a durable, exchangeable cover keeping dust, dirt and liquids away, making it highly hygienic
- ❖ Resting rhythm upto 20 minutes
- ❖ Hook-up adviser with colour-coded waveforms and anatomical model
- ❖ Lead reversal detection
- ❖ Exercise test option
- ❖ Various optional diagnostic analysis programs
- ❖ Resting 16-lead acquisition and analysis (optional): Based on real measurement data, not just calculations
- ❖ Fast and secure bi-directional Wi-Fi communication (including PDQ and Worklist)

### OPTIONAL

- ❖ ETM, SAECG, Vector ECG, Arrhythmia Detection, ECG re-measurement, 10 seconds resting ECG from resting rhythm



CARDIOVIT® AT-180

## CARDIOVIT® CS-104

CARDIOVIT CS-104 combines all essential ECG features and desired possibilities in an integrated system. CARDIOVIT CS-104 is also available as Resting ECG PC Software and Spirometry PC Software.

With CARDIOVIT CS-104, SCHILLER offers a complete ECG system for practices, clinics and hospitals. The unit includes a PC, a monitor, a trolley and a wireless (MS-12 blue) or wired (MS-12 USB) acquisition module. Optionally, CARDIOVIT FT-1 can be used for ECG acquisition. Everything is pre-installed and tested by SCHILLER and is ready to be used in clinical practice.

- ❖ Resting ECG with the SCHILLER ECG analysis program ETM as well as ETM Sport, the automatic interpretation for athletes
- ❖ Resting rhythm recording for up to 20 mins, with optional arrhythmia detection
- ❖ ECG Framer: 10-second resting ECG from resting rhythm
- ❖ Exercise ECG with optional arrhythmia detection
- ❖ Vector ECG, optional
- ❖ Spirometry, based on ultrasound technology of the SpiroScout SP plus (**Optional**)
- ❖ Integrated workstation for data review from all SCHILLER devices connected to the SCHILLER Server
- ❖ Bi-directional connectivity (including worklist and PDQ) to EMR, HIS and PACS Systems



CARDIOVIT® CS-104



## CARDIOVIT® CS-200 Office

Exercise-ECG with maximum freedom

- ❖ Automatic and manual ECG recording modes with selectable print formats
- ❖ Automatic patient visit registration
- ❖ Pacemaker detection
- ❖ Patient editing / User defined print formats / Patient search function
- ❖ PDF generation and PDF export
- ❖ Dynamic protocol generator for exercise ECG
- ❖ ETM Software (Interpretation Software Module)
- ❖ Full Disclosure
- ❖ Real-time continuous ST-measurement
- ❖ Enlarged QRS presentation
- ❖ User definable protocols to control bicycle or treadmill ergometer
- ❖ Artifact / noise processing
- ❖ Heart rate calculation
- ❖ ST Ref / ST Amplitude / ST Ampl Slope Trend / HR BP Load Trend
- ❖ Results / documentation during recovery phase with configurable text modules
- ❖ MS12 acquisition through Bluetooth or USB connectivity
- ❖ Sampling rate of 8000 Hz

### OPTIONAL

- ❖ Multi-Touch Panel PC 22"
- ❖ Trolley X2
- ❖ ETM Re-Interpretation Software
- ❖ ETM Sport Software
- ❖ Vector Loops (3D) Software
- ❖ Arrhythmia Detection / Documentation Software
- ❖ RISK (risk factors) Software



CARDIOVIT® CS-200 Office

## CARDIOVIT® CS-200 Office ErgoSpiro

Covers all essential ErgoSpiro applications

- ❖ Cardiopulmonary Function Test (CPET) System designed according to the latest ATS / ERS guidelines
- ❖ Metabolic tests combined with diagnostic-quality 12-lead exercise ECG is suitable for a wide range of subjects, from clinical patients to high-performance athletes
- ❖ Dual screen allows more flexibility and easy operation
- ❖ The PWC Ergo forms the heart of the system. Together with the pneumotach, it ensures the highest possible accuracy
- ❖ Breath-by-breath analysis of Metabolic response ( $\text{VO}_2$ ,  $\text{VCO}_2$ , METS, RER) with unique maintenance-free ultrasonic cell for  $\text{CO}_2$  measurement; easy, quick and fully assisted calibration for highly accurate measurements
- ❖ Breath-by-breath analysis of gas exchange ( $\text{PETCO}_2$ ,  $\text{PETO}_2$ )
- ❖ Charts and data display through standard or user-defined 9 panel
- ❖ Multiple ventilatory threshold detection analysis with 7 different threshold determinations
- ❖ Charts and data display through 9 panel.
- ❖ Offline entry of blood gas parameters
- ❖ Fully integrated 12-lead Resting and Exercise ECG with wireless (MS-12 blue) or wired (MS-12 USB) acquisition module improves patient comfort
- ❖ Full disclosure storing of the unfiltered, continuous ECG signals
- ❖ Compatible with Ergo Bicycle, Arm Ergometer and Treadmill
- ❖ Comprehensive protocol editor program to create individual ramp and step protocols
- ❖ Customized reports including export to PDF format

### OPTIONAL

- ❖ Automatic blood pressure measurement with optional built-in  $\text{SpO}_2$  module from BP-200 plus
- ❖ Vector ECG
- ❖ DICOM and HL7 compatibility
- ❖ ETM automatic interpretation for Resting ECG ; ETM Sport for interpretation of athletes' hearts
- ❖ Arrhythmia detection in rhythm and exercise ECG
- ❖ Risk Duke Treadmill Score
- ❖ Automatic ECG Interpretation for resting ECG



CARDIOVIT® CS-200 Office ErgoSpiro

# CARDIOVIT® CS-200 Excellence

Dedicated workstation for Resting & Exercise ECG

- ❖ Simultaneous acquisition & display of 12 / 16-lead of raw ECG for quality diagnosis
- ❖ Large Colour LCD monitor enables display of all 12 lead on a single screen
- ❖ Built-in Pacemaker detection, Pacemaker Measurement & QT Dispersion software PDF generation and editing
- ❖ Easy connectivity through standard LAN
- ❖ Onboard SEMA data management software which allows physician to recall any stored data for Review / Analysis / Validation & Printing
- ❖ The systems provide raw ECG data and averaged ECG data of any given time in different screen / printing formats
- ❖ The “EXEC EXPERT” software for exercise ECG of 12-lead
- ❖ The “EXEC Plus” program allows full disclosure and review of all 12-lead for beat by beat analysis & re-analysis of entire stress test
- ❖ Serial comparison of previous tests available
- ❖ Pre-defined protocols are available for treadmill and ergo devices separately along with user configurable protocol option
- ❖ Final report includes stagewise trend information for Blood Pressure, Heart Rate, Speed / Grade, ST Trends, ST-HR Plots & Average complexes of all 12-lead
- ❖ Auto ST max feature to identify the specific lead which has maximum ST deviation
- ❖ REAL TIME BAR GRAPH to provide ST changes in all 12-lead
- ❖ Treadmill or Bicycle can be interfaced for stress test
- ❖ Sampling rate of 8000Hz
- ❖ The “SCHILLER Echoview” software gives an instant visual analysis of ECG data changes, particularly ST segment changes
- ❖ Stage-wise and final summary reports on built-in A4 size thermal printer or, external laser printer, with multiple print formats
- ❖ RISK Duke Score feature & Drug Test option
- ❖ Specialized filters for noise reduction with no compromise on the ECG quality

## OPTIONAL

- ❖ 16-lead ECG
- ❖ BP-200 plus: Automatic Blood Pressure & SpO<sub>2</sub> measurement device
- ❖ Spirometry
- ❖ SEMA software for HIS/ PACS interface
- ❖ HyperQ software
- ❖ Vector Cardiography
- ❖ Signal Averaging ECG software (Late Potential)
- ❖ AF tool box for atrial analysis
- ❖ Arrhythmia detection
- ❖ The “ETM” software allows interpretation for adults & pediatrics resting ECG. Also
- ❖ ETM Sport software for athlete interpretation



CARDIOVIT® CS-200 Excellence

## CARDIOVIT® CS-200 Excellence ErgoSpiro

The Art of Cardiopulmonary Exercise Diagnostics

- ❖ Integrated 12-lead Exercise ECG with full disclosure SCHILLER ETM ECG analysis program with measurement and interpretation
- ❖ Duke Treadmill Score assists you in predicting patients at risk of sudden cardiac death
- ❖ True breath-by-breath analysis of analysis of Metabolic response, Ventilatory response, cardiovascular response and gas exchange
- ❖ Real time acquisition and capturing of dynamic Flow Volume for End Expiratory Volume Loops (EEVL) evaluation of ventilatory limitation
- ❖ Display data and charts through standard Wasserman 9-panel plot or custom 9-panel graph
- ❖ Automatic detection of AT (VT1) and RCP (VT2) at the end of each test
- ❖ Powerful post-edit option for data filtering calculation of thresholds VT1, VT2,  $\text{VO}_2\text{max}$ , V-Slope and other parameters
- ❖ Multiple ventilatory threshold-detection analysis with 7 different threshold determinations
- ❖ Protocol Editor program for creating individual protocols
- ❖ Automatic arrhythmia detection and classification
- ❖ Unique dynamic protocol selection according to VSAQ nomogram (Veterans Specific Activity Questionnaire)

### OPTIONAL

- ❖ SAECC
- ❖ Vector 3D ECG
- ❖ 16-lead ECG for resting & exercise ECG
- ❖ HyperQ
- ❖ EMR & HIS integration through SEMA software
- ❖ AF Toolbox
- ❖ ECHO view for HRV
- ❖ BP-200 plus: Automatic Blood Pressure &  $\text{SpO}_2$  measurement device



CARDIOVIT® CS-200 Excellence ErgoSpiro

## Ergosana Sprint Plus

Ergosana Sprint Plus is a cardiac rehabilitation unit that allows up to 16 patients to safely train simultaneously. Ergosana Sprint Plus is a cardiac rehabilitation unit that allows up to 16 patients to safely train simultaneously.

This Windows-based application automatically controls all connected ergometers and treadmills. Entering patient data, managing exercise sessions and creating reports have become simple tasks that no longer require tedious manual steps.

- ❖ High-resolution display that can be increased by double-clicking Up to 16 training stations simultaneously, ergometers and treadmills (8 stations per monitor)
- ❖ Time-saving patient management
- ❖ Group assignment
- ❖ Single occupancy with chip card
- ❖ Modern medical training methods
- ❖ Pulse and load-controlled training programs
- ❖ Treadmill programs
- ❖ Seamless quality management and documentation



Ergosana Sprint Plus



## **ECG AND ABPM HOLTER**

### **ANALYSIS SOFTWARE FOR CARDIOLOGY**

- › medilog® DARWIN2 ABPM
- › medilog® DARWIN2

### **HOLTER AND AMBULATORY BLOOD PRESSURE RECORDER**

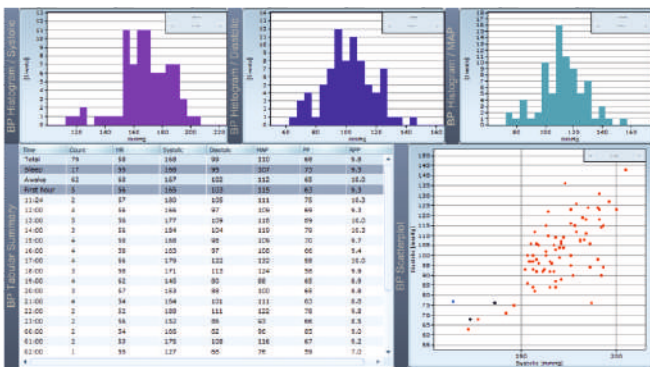
- › BR-102 plus
- › medilog® AR



## medilog® DARWIN2 ABPM

Ambulatory Blood Pressure analysis software

- ❖ Parameter settings can be defined via PC software
- ❖ Comprehensive statistical calculations based on the measurements
- ❖ Results can be saved in PDF format
- ❖ Various Numerical & Graphical presentations
- ❖ Patient Diary and Events for viewing errors, sleep and awake timing of the patient
- ❖ BP scatterplot facility for identification of measurements in a particular range

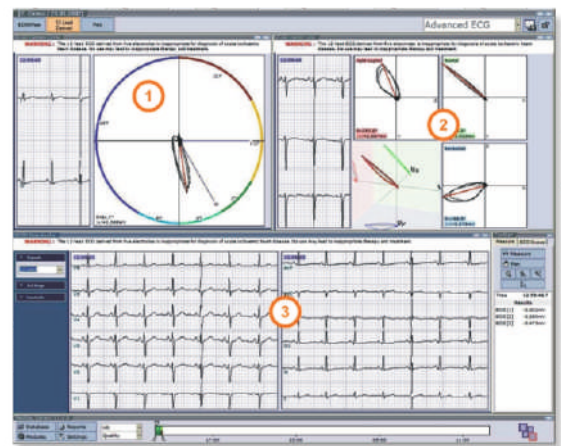


## medilog® DARWIN2 ABPM

## medilog® DARWIN2

Ambulatory ECG analysis software

- ❖ Less than 90 sec. to analyze a typical 24 hours ECG recording
- ❖ medilog's ADAPT algorithm provides an analysis accuracy of 99.9%
- ❖ Real-time P-Wave recording in recorders & presentation of Atrial activity in unique Echoview & P-R trend, provides high level of atrial screening
- ❖ High sampling frequency & resolution allows true Apnea detection & assessment thereby giving assessment of sleep quality by using unique HRV frequency spectogram which displays the sympathetic and parasympathetic activity
- ❖ User-defined reports, workflows allowing customization of screen format
- ❖ ST Analysis, QT Analysis, Pacemaker Analysis, HRV Analysis
- ❖ Strip directory combined with arrhythmia overview screens get you straight to the heart of the ECG data
- ❖ Comprehensive HRV analysis in graphical & tabular form conducted in time & frequency domain form. Fire of life software allows HRV analysis and display to judge the function of the autonomic nervous system
- ❖ Compatible with medilog® AR & FD12 plus recorders



## medilog® DARWIN2

## BR-102 plus

Ambulatory Blood Pressure Recorder

- ❖ Accurate & precise blood pressure measurement using Oscillometric method
- ❖ Recording over 24 or 48 hours with measurement intervals of 5 to 120 minutes
- ❖ High resolution Colour OLED screen with multi-language menu
- ❖ Voice recording of patient data
- ❖ Examination of adults & pediatric using special algorithm
- ❖ Pre-programming & storage up to four individual measurement programs
- ❖ Facility for manual BP recording at any time
- ❖ USB interface for data transfer to PC
- ❖ Lightweight: Approximately 200 gms with 2 rechargeable NiMH batteries
- ❖ Internal memory: Maximum 400 measurements can be saved



BR-102 plus

## medilog® AR

Record Longer – Edit Less

- ❖ Robust, shock- and splash-proof as well as easy to clean OLED display for true signal quality check
- ❖ Dual-battery concept, the patients can be screened for more than 14 days without having to see the doctor to change the batteries
- ❖ Compatible with 5- or 7- lead patient cable with automatic cable detection
- ❖ Zero-seconds atrial fibrillation/atrial flutter detection based on true P-wave analysis is one of the engineering highlights of this Holter solution
- ❖ Superior resting ECG grade 32,000 Hz sampling rate on 3 channels, for true P-wave analysis, sophisticated artefact suppression and motion detection
- ❖ HRV Analysis – Fire of Life
- ❖ Thanks to ECG-derived respiration recording, the medilogAR is able to screen for potential respiratory episodes during sleep
- ❖ The optional SpO<sub>2</sub> sensor, connected via Bluetooth, provides additional respiratory information
- ❖ 30 second voice recording for patient identification
- ❖ The analysis is carried out using the renowned medilog DARWIN2 Software



medilog® AR



## **PULMONARY FUNCTION TESTING**

### **BASIC SPIROMETRY**

- › SPIROVIT SP-1 G2
- › GANSHORN® SpiroScout

### **ADVANCED SPIROMETRY**

- › GANSHORN® PowerCube Diffusion+
- › GANSHORN® PowerCube Body+

## SPIROVIT SP-1 G2

The SPIROVIT SP-1 G2 measures the patient's respiratory flow with GANSHORN's ultrasound measuring technology.

- ❖ Large 5" colour display
- ❖ Real-time display of information, quality check, on-screen review
- ❖ Incentive screen for children
- ❖ Ultrasound flow sensor with high accuracy
- ❖ FVC (force vital capacity) measurement program
- ❖ SVC (slow vital capacity) measurement program
- ❖ MVV (maximum voluntary ventilation) measurement program
- ❖ High resolution thermal printer
- ❖ 4 hours battery backup
- ❖ Memory for at least 100 tests in PDF format
- ❖ Automatic PDF export to USB stick

### OPTIONAL

- ❖ 3 litre calibration pump



SPIROVIT SP-1 G2

## GANSHORN® SpiroScout

The New Dimension in Measurement of Spirometry

- ❖ High precision spirometry due to direct flow measurement. Clean and high-precision via ULTRASOUND Technology
- ❖ Realtime BTPS correction, drift free, high accuracy
- ❖ No volume calibration and warm-up time necessary. Save time and conduct more measurements
- ❖ Perfectly hygienic concept optimising workflow and patient safety
- ❖ No perceptible resistance and more comfort to the patients
- ❖ ATS/ ERS Guidelines - Fully conforms to Gold Standards

### STANDARD MEASUREMENT PROGRAMS

- ❖ Slow Spirometry
- ❖ Forced Spirometry/ Flow-Volume
- ❖ MVV (Maximal Voluntary Ventilation)
- ❖ Measurement with Filter

### OPTIONAL UPGRADES SUCH AS

- ❖ Rhinomanometry
- ❖ Pediatric/ Neonatal Spirometry
- ❖ HI7/ network options through SEMA software



GANSHORN® SpiroScout



## GANSHORN® PowerCube Diffusion+

Acquire both Diffusion and Distribution Dysfunctions in one Measurement

- ❖ Determination of diffusion capacity (DLCO and DLCOc) and helium-FRC SB
- ❖ TLC measurement through helium dilution technique
- ❖ Continuous display of the exhalation concentration for CO and helium for the precise differentiation of dead space and alveolar plateau
- ❖ Economical measurement gas consumption
- ❖ Optimisation of the breathing manoeuvre aided by informative assistance diagrams
- ❖ Instantaneous Diffusion Results: Gas Analysis conducted by longlife real-time analyzers using only 1 gas bottle (CO, He)
- ❖ Maintenance free, Clean and High-Precision via Ultrasound Technology
- ❖ Longlife Gas Analyzers - No replacements or periodic changes needed
- ❖ Free of Breathing Bags - Gas intake is regulated and waste is avoided
- ❖ ATS / ERS Guidelines: Fully conforms to Gold Standards
- ❖ Easy Use: Change mouthpiece and get started
- ❖ Online Temperature & Maximum Precision: The BTPS correction factor is calculated during the measurement

### STANDARD MEASUREMENT PROGRAMS

- ❖ Slow Spirometry
- ❖ Forced Spirometry/ Flow-Volume
- ❖ MVV (Maximal Voluntary Ventilation)
- ❖ Single Breath Diffusion
- ❖ Offline Input of Blood gases

### OPTIONAL UPGRADES SUCH AS

- ❖ MIP / MEP (Muscle Strength)
- ❖ ROCC
- ❖ FRC - Nitrogen Washout
- ❖ Provocation Test
- ❖ Rhinomanometry
- ❖ Compliance+
- ❖ HI7 / DICOM compatible through SEMA software



GANSHORN® PowerCube Diffusion+

## GANSHORN® PowerCube Body+

Complete Respiratory Diagnostics System

- ❖ Full pulmonary function testing lab including recording of all pulmonary volumes and diffusing capacity
- ❖ Diagnose Faster - Within a minute obtain results for airway resistance, dynamic / static lung volumes and flow / volume curve
- ❖ Maintenance-Free, Clean and High-Precision via Ultrasound Technology
- ❖ Longlife Gas Analyzers - No replacements or periodic changes needed
- ❖ Broad Spectrum of Option: Multiple programs available, making the PowerCube Body+ your comprehensive analysis device
- ❖ Cost & space optimized
- ❖ ATS / ERS Guidelines: Fully conforms to Gold Standards
- ❖ LFX (Our User-Friendly Intuitive Software): Latest programming technologies safeguard natural day-to-day workflow

### STANDARD MEASUREMENT PROGRAMS

- ❖ Body plethysmography (TGV)
- ❖ Airway resistance (Eff, Tot, 0.5, mid, peak)
- ❖ Slow Spirometry
- ❖ Forced Spirometry / Flow-Volume
- ❖ MVV (Maximal Voluntary Ventilation)

### OPTIONAL UPGRADES SUCH AS

- ❖ MIP / MEP (Muscle Strength)
- ❖ ROCC
- ❖ Diffusion Test
- ❖ FRC - Nitrogen Washout
- ❖ Provocation Test
- ❖ Rhinomanometry
- ❖ Compliance+
- ❖ HI7 / DICOM compatible through SEMA software



GANSHORN® PowerCube Body+



## MONITORING

### MULTI-PARA PATIENT MONITORS

- › SOLUS® 1s
- › TRUSCOPE® III
- › TRUSCOPE® ultra series
- › TRUSCOPE® touch mini

### CENTRAL STATION

- › TRUSCOPE®/SOLUS CENTRAL STATION

### PULSE OXYMETERS

- › OXYWAVE®

### MRI PATIENT MONITOR

- › MAGLIFE RT-1

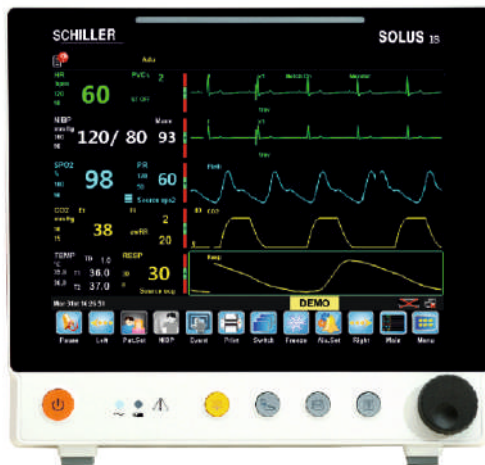
## SOLUS<sup>®</sup> 1s

12.1" Multi-utility Patient Monitor

- ❖ 12.1" high resolution colour TFT LCD display
- ❖ Total 8 waveform display
- ❖ ST and Arrhythmia Analysis
- ❖ 48 hrs full disclosure waveform display
- ❖ 120 Hrs of tabular and graphic trends & data storage
- ❖ Hemodynamic, Drug dosage, Oxygenation, Renal function & Ventilation calculation
- ❖ OxyCRG Software
- ❖ Pacemaker detection facility
- ❖ SpO<sub>2</sub> pulse-tone modulation (Pitch Tone)
- ❖ MEWS (Modified Early Warning Score)
- ❖ Rechargeable lithium-Ion battery
- ❖ Various mounting solutions
- ❖ Support HL7 protocols to HIS
- ❖ Central station connectivity : Wired

### OPTIONAL

- ❖ Dual IBP
- ❖ EtCO<sub>2</sub> (Mainstream / Sidestream)
- ❖ Thermal recorder
- ❖ Touchscreen
- ❖ CMS



SOLUS<sup>®</sup> 1s

## TRUSCOPE<sup>®</sup> III

12.1" Display monitor with and without Touchscreen

- ❖ 12.1" touchscreen high resolution colour TFT LCD display
- ❖ 8 different screen configuration
- ❖ Total 10 waveform display simultaneously
- ❖ ST, Arrhythmia & QT Analysis with ST Map
- ❖ 168 hrs tabular and graphic trends & data storage
- ❖ Drug dose, Hemodynamic, Nephridium, Ventilation & Oxygenation Calculation Software, OXY CRG Software, NIBP Analysis & HRV Analysis
- ❖ Standard configuration: ECG, HR, RESP, NIBP, Digital SpO<sub>2</sub>, PR, Dual TEMP
- ❖ Pacemaker detection facility
- ❖ Video Output (VGA)
- ❖ 2 USB Ports

### OPTIONAL

- ❖ Dual IBP
- ❖ EtCO<sub>2</sub> (Mainstream / Sidestream / Microstream - LoFlo)
- ❖ SpO<sub>2</sub> (Nellcor / Masimo)
- ❖ Multigas (CO<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>O & 5AA)
- ❖ Additional Temperature probe
- ❖ Recorder
- ❖ Central station connectivity: Wi-fi
- ❖ Central station connectivity : Wired
- ❖ 12-lead ECG



TRUSCOPE<sup>®</sup> III

## TRUSCOPE® ultra series

15"/12.1" Modular Patient Monitors [Q7, Q5]

- ✦ Q7:15" / Q5:12.1" touchscreen colour TFT LCD display
- ✦ Modular slots available
- ✦ Upto 7-lead ECG display (12-lead display optional)
- ✦ Total 10 waveform display simultaneously
- ✦ 8 different screen configurations
- ✦ ST, Arrhythmia & QT Analysis with ST Map
- ✦ Drug dose, Hemodynamic, Renal profile (nephridium), Oxygenation Calculation, OXY CRG software, NIBP Analyse & HRV software
- ✦ 168 hrs graphical & tabular trends-inbuilt memory
- ✦ VGA connectivity for external monitor
- ✦ USB Ports

### OPTIONAL

- ✦ Central Monitoring System: Wi-fi
- ✦ Recorder
- ✦ Central Monitoring System: Wired (optional)
- ✦ Dual Battery - Only in Q7 (optional)
- ✦ 12-lead ECG (optional)

### PRECONFIGURED PARAMETERS AVAILABLE (FIVE PARAMETERS)

- ✦ ECG, RR, SpO<sub>2</sub> (Digital), 2 Temp, NIBP

### OPTIONAL MODULAR UPGRADES

- ✦ EtCO<sub>2</sub> (Mainstream / Sidestream / Microstream - LoFlo)
- ✦ Multigas monitoring
- ✦ Cardiac Output (Thermodilution)
- ✦ Dual IBP
- ✦ BIS
- ✦ Nellcor or Masimo SpO<sub>2</sub>
- ✦ EEG



TRUSCOPE® ultra - Q7

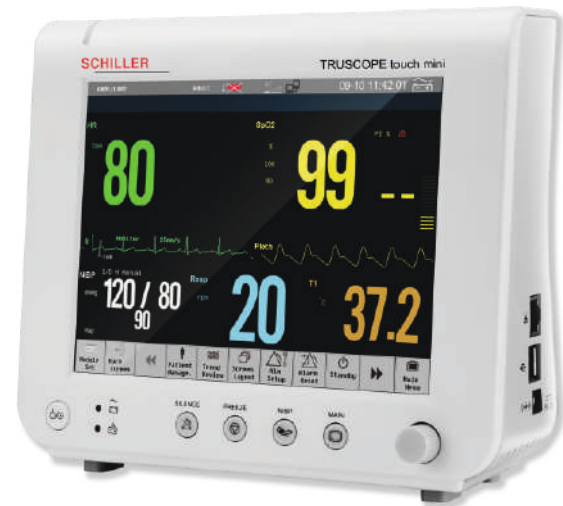
## TRUSCOPE® touch mini

Portable 5 para Monitor

- ✦ Ergonomic design of 12" screen angle for best perspective
- ✦ Maximum of 9 waveforms
- ✦ 8" high resolution color TFT LCD touchscreen display
- ✦ Compact & portable with concealed handles
- ✦ Drug Dose, Haemodynamic, Nephridium, Ventilation &
- ✦ Oxygenation calculation, OXY CRG software, HRV & NIBP Analysis
- ✦ ST, Arrhythmia & QT Analysis with ST Map
- ✦ 168 hrs of trend data as per user manual
- ✦ Mains and battery operated with backup of 6 hrs
- ✦ Monitored parameters: 3 / 5 lead ECG, RR, NIBP, SpO<sub>2</sub>, TEMP
- ✦ Better indication of perfusion index on Digital SpO<sub>2</sub>

### OPTIONAL

- ✦ Wired connectivity to Central Nursing Station



TRUSCOPE® touch mini



## TRUSCOPE®/SOLUS CENTRAL STATION

Multi-Parameter Central Station

### WIRED / Wi-Fi

- ❖ Windows-based software
- ❖ Monitoring of 16 bedside monitors on a single display and upgradable to 66 beds (Truscope CNS)
- ❖ Monitoring of all the parameters for a period of 96 hours with tabular and graphical trends
- ❖ Online auto arrhythmia detection, storage, recall & review of full 96 hours data
- ❖ 4/8/12/16 bed alignment
- ❖ Freezing facility for each channel separately
- ❖ Bidirectional control of NIBP test, patient details, alarms & alarm parameters
- ❖ Compatible with TRUSCOPE Monitor Series
- ❖ SOLUS 32 bed Central Station is compatible with TRUSCOPE and SOLUS monitor series



TRUSCOPE® CENTRAL STATION

## ARGUS OXM plus

Handheld / Table Top Pulse Oximeter

- ❖ 2.4" high resolution OLED display: 320 x 240 pixels
- ❖ Gravity sensor automatically changes the direction of display
- ❖ Visual and audible alarms
- ❖ Convenient AA size alkaline or rechargeable lithium ion batteries
- ❖ More than 48 hours of trend and data storage
- ❖ Display of SpO<sub>2</sub>%, PR & plethysmogram waveform
- ❖ Spot check and continuous working mode

### CONFIGURATIONS AVAILABLE

- ❖ Only SpO<sub>2</sub>
- ❖ Only ECG
- ❖ SpO<sub>2</sub> + ECG (optional)
- ❖ Available with nellcor option



ARGUS OXM plus

## OXYWAVE®

Desktop Pulse Oximeter

- ❖ Portable Pulse Oximeter - Precise Nellcor Technology
- ❖ Large LCD display
- ❖ Smart pitch tone variation with saturation level
- ❖ Good viewing angle
- ❖ Rugged design
- ❖ Mains/ battery operated with 2 hours of operating time
- ❖ 24 hours trends
- ❖ Comprehensive alarms

### OPTIONAL

- ❖ Temperature



OXYWAVE®

## MAGLIFE RT-1

Revolutionary patient monitoring in the MRI environment

MAGLIFE RT-1 performs patient monitoring in an MRI environment including all necessary vital parameters during anaesthesia. The system is designed for all patients: adults, children and neonates.

- ❖ Compatible with MRI systems from any manufacturers that have a field strength between 0.2 and 3 Tesla
- ❖ 10 vital parameters at a glance: ECG, SpO<sub>2</sub>, NIBP (standard); IBP (optional); EtCO<sub>2</sub>, anaesthetic agents, O<sub>2</sub>, N<sub>2</sub>O (optional); spirometry (optional); optical temperature measurement (optional)
- ❖ Wireless ECG and SpO<sub>2</sub> sensors: suitable for all types of patients, even premature babies
- ❖ Remote control through the display unit MAGSCREEN RT-1 outside the Faraday Cage: Full control of the MAGLIFE RT-1 monitor and adjustment of all parameters and functions
- ❖ The MAGLIFE RT-1 can be used as close as 50cm from the MRI
- ❖ Mains or battery operated
- ❖ MAGLIFE RT-1 and MAGSCREEN RT-1 are equipped with a 15.6" colour TFT touchscreen



MAGLIFE RT-1



## DEFIBRILLATORS

- › DEFIGARD® 400
- › DEFIGARD® HD 7
- › FRED® easyport® plus
- › FRED® PA-1



## DEFIGARD® 400

Multi-Parameter Defibrillator with Exponential truncated Impedance Compensated Biphasic technology

- ❖ Large 8.4" high-resolution colour TFT LCD screen
- ❖ Single rotary knob operation
- ❖ Direct function keys
- ❖ Visual instruction & guidance on screen
- ❖ Stores last 3 defibrillation events
- ❖ 24 hours trend for all parameters
- ❖ Adult and pediatric application
- ❖ Lightweight & portable

### OPTIONAL

- ❖ AED
- ❖ External pacemaker with fix, demand and overdrive mode
- ❖ 12-lead ECG
- ❖ SpO<sub>2</sub>(Digital / Nellcor), NIBP, EtCO<sub>2</sub>
- ❖ Integrated thermal printer with auto & manual modes of printing
- ❖ USB interface for data storage
- ❖ Internal defibrillation through spoon paddle



DEFIGARD® 400

## DEFIGARD® HD 7

Discover the DEFIGARD HD-7, SCHILLER's latest defibrillator / monitor. Compact and lightweight, benefit from its easy-to-use interface to access all main functions

- ❖ Paddle or PAD models
- ❖ Automatic regular self test
- ❖ 1-2-3 workflow in manual defibrillator
- ❖ Touch'n save user interface Easy access to all functions
- ❖ Easily select the necessary mode (Monitor / Manual Defib. / AED / Pacer / Test)
- ❖ Manual shock upto 200 Joules
- ❖ Audible and visual shock load indicators
- ❖ Cardioversion (Synchro mode)
- ❖ 25 selectable energies including 1 - 15 in 1 Joule steps for infant defibrillation
- ❖ 200 shocks with maximum energy or 8 hour monitoring with 32 NIBP measurements
- ❖ Single Connector for all types of Defibrillations
- ❖ Energy selecting, charging and shocking can be easily operated through paddle
- ❖ Inbuild paediatric paddle
- ❖ Easily check the patient's impedance through the illuminated LED located on the paddle
- ❖ Free CPR with no additional sensor
- ❖ Integrated 6 channel thermal printer
- ❖ Data connectivity through WLAN, USB
- ❖ Compatible to SEMA data connectivity solution
- ❖ Integrated non-skid hooks to easily fix the DEFIGARD HD-7 on a patient bed, a trolley etc.

### OPTIONAL

- ❖ External Pacemaker
- ❖ SpO<sub>2</sub> monitoring through SpO<sub>2</sub> Masimo Set or SpO<sub>2</sub> Nellcor Set
- ❖ NIBP Monitoring
- ❖ EtCO<sub>2</sub> Monitoring
- ❖ CPR feedback with ARGUS LifePoint



DEFIGARD® HD 7

## FRED<sup>®</sup> easyport<sup>®</sup> plus

Compact and powerful Semi-Automatic defibrillator

- ❖ FRED easyport plus is the latest SCHILLER defibrillator: its outstanding weight of only 780 g and its small size combined with greatest functionality are unique worldwide
- ❖ The Multipulse Biowave<sup>®</sup> technology ensures an effective and safe defibrillation shock
- ❖ Easy 3 step operation: Start -> Analysis -> Shock
- ❖ Deliver shock upto 200 Joules
- ❖ Metronome and real-time CPR feedback
- ❖ Suitable for all environments: Automatically adjusts the large colour LCD screen's brightness
- ❖ Intuitive pediatric mode, while using the same electrodes as for adults
- ❖ Data transmission via Bluetooth or USB
- ❖ Regular self-tests ensure its operability and working status
- ❖ Operational with rechargeable batteries for more flexibility
- ❖ With IP44 classification, device resists entry of splashing water

### OPTIONAL

- ❖ The ARGUS LifePoint<sup>®</sup> sensor - Guidance for effective chest compressions
- ❖ CPR assistance for childrens
- ❖ SEMA - Data review and manage



FRED<sup>®</sup> easyport<sup>®</sup> plus



## FRED® PA-1

AED Fully-automatic / Semi-automatic Defibrillator

- ✦ Makes use of Biphasic truncated exponential waveform
- ✦ Lightweight, Ultra Portable Design
- ✦ Easy 3 step operation: Start -> Analysis -> Shock
- ✦ Weighs around 2.5 kg with battery & standard accessories
- ✦ Capacity of storing 500 events or 2 hours of ECG recording storage
- ✦ Highly efficient lithium batteries delivers more than 140 shocks at maximum energy
- ✦ Maintains the energy delivered to the patient at an approximately constant level with regard to patient resistance
- ✦ Complete user guidance by voice prompts and pictograms for easy operation
- ✦ Metronome facility for accurate CPR

### OPTIONAL

- ✦ Free CPR
- ✦ SD card facility to store data during intervention
- ✦ Language selection configuration (Upto 3 languages - cannot be retrofitted)



FRED® PA-1



## CPR DEVICE

› EASY PULSE®



## EASY PULSE®

Efficient and Compact Cardiac Resuscitation Device

- ❖ Portable, stand-alone device delivers chest compressions automatically
- ❖ Effective chest compression even in head up position
- ❖ 3D compression (cardiac and thoracic pump approach)
- ❖ Performs chest compression on patient suffering from acute cardiac arrest at a consistent rate and depth, which is impossible to achieve with manual compressions
- ❖ Simple operating protocol: Single key to perform 30 compressions and 2 rescue breathes (30:2) in continuous manner
- ❖ Adapted for patient transportation & suitable for large patients
- ❖ Autonomous operation for 45 minutes
- ❖ Additional battery with charge level indicator
- ❖ Slider with buckle straps that help safe transportation of patients
- ❖ Achieves approx. 50 mmHg of CPP
- ❖ Connections: External DC input and connection for software upgrade



EASY PULSE®



## VENTILATORS

- › GRAPHNET advance
- › GRAPHNET ts
- › GRAPHNET neo
- › AQUILON<sup>®</sup> ts
- › AQUILON<sup>®</sup> NV8
- › SOPHIE
- › F-120 mobil

## GRAPHNET advance

Universal-Adult, Pediatric & Neonatal Ventilator

- ❖ 12.1" TFT- LED colour touchscreen display to view waveforms & loops simultaneously
- ❖ Proximal Flow Sensor for neonatal patient category
- ❖ Advanced modes like PRVC, SIMV (PRVC) + PSV, APRV, MMV + Pressure Support, PSV + assured volume, VSV
- ❖ Dedicated neonatal ventilation modes like TCPL, SIMV (TCPL) + PSV, N-CPAP, Non-Invasive Ventilation
- ❖ Tidal volume correction according to BTPS
- ❖ Endo tracheal tube, altitude and circuit compliance compensation & leak compensation in all modes
- ❖ Integrated nebulizer (Volume Compensated & Inspiratory Synchronize)
- ❖ Advanced Lung Mechanism Calculations: Auto-PEEP and trapped Volume, WOBI, Exp. Time Constant, P / V
- ❖ Flex Monitoring, Slow Vital Capacity, Pi Max (NIF), Physiological Dead Space
- ❖ Suction % O<sub>2</sub> for suction sequence with variable FiO<sub>2</sub>

### OPTIONAL

- ❖ AVA - Adaptive Ventilatory Assistance
- ❖ SBT - Spontaneous Breathing Trial
- ❖ Stress Index
- ❖ High Flow Oxygen Therapy (HFOT / HFNC)
- ❖ Capnography (Mainstream) - Curves of CO<sub>2</sub> / Time and Volumetric Capnography (CO<sub>2</sub> / VT), Measurements of EtCO<sub>2</sub> Alveolar Ventilation, Dead Space, CO<sub>2</sub> Elimination (VCO<sub>2</sub>), VD / VT Ratio, CO<sub>2</sub> expired volume (VTCO<sub>2</sub>)



graphnet advance

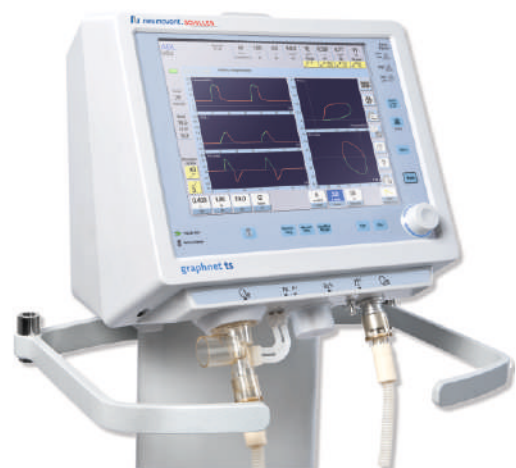
## GRAPHNET ts

Adult, Pediatric & Infant Ventilator

- ❖ Neonatal ventilation is available as option (installed or retrofit)
- ❖ 12.1" TFT- LED colour touchscreen display to view waveforms & loops simultaneously
- ❖ Tidal Volume correction according to BTPS leak compensation in all modes
- ❖ Altitude and circuit compliance compensation with Leakage Compensation possible in all modes
- ❖ Advanced modes like APRV, MMV+ Pressure Support, PSV+ assured Volume
- ❖ PRVC - Pressure Regulated Volume Control, SIMV (PRVC) + PSV, VSV
- ❖ Selectable apnea back up ventilation (Volume or Pressure type)
- ❖ 72 hours trend display
- ❖ User adjustable ideal body weight factor
- ❖ Integrated nebulizer (Volume compensated & Inspiratory Synchronize)
- ❖ Advanced Lung Mechanism calculations: Auto-PEEP and trapped Volume, WOBI, Exp. Time Constant, P / V Flex Monitoring, Slow Vital Capacity, Pi Max (NIF)
- ❖ Suction % O<sub>2</sub> for suction sequence with variable FiO<sub>2</sub>
- ❖ Non-Invasive Ventilation available

### OPTIONAL

- ❖ Neonatal Ventilation with special modes available
- ❖ AVA - Adaptive Ventilatory Assistance
- ❖ SBT - Spontaneous Breathing Trial and Stress Index
- ❖ High Flow Oxygen Therapy (HFOT/ HFNC)
- ❖ Capnography (Mainstream) - Curves of CO<sub>2</sub> / Time and Volumetric Capnography (CO<sub>2</sub> / VT), Measurements of EtCO<sub>2</sub> Alveolar Ventilation, Dead Space, CO<sub>2</sub> Elimination (VCO<sub>2</sub>), VD / VT Ratio, CO<sub>2</sub> expired volume (VTCO<sub>2</sub>)



graphnet ts



## GRAPHNET neo

Dedicated Neonatal & Infant Ventilator

- ❖ 12.1" TFT - LED colour touchscreen display to view waveforms & loops simultaneously
- ❖ Proximal Flow Sensor at Y-piece for precise flow / volume monitoring and quick trigger response
- ❖ Independent of circuit and humidifier compliance
- ❖ Down to 2 ml at VC ventilation
- ❖ Dedicated neonatal ventilation modes like TCPL, SIMV (TCPL) + PSV, N-CPAP, Non-Invasive Ventilation
- ❖ SIMV (PRVC) + PSV, VSV (Volume Support Ventilation)
- ❖ Pressure control and volume guaranteed with PRVC
- ❖ Automatic leakage compensation
- Continuously automatically optimized trigger sensitivity (from 0.2 ml) & termination criteria
- ❖ Selectable apnea back up ventilation (Volume or Pressure type)
- ❖ Altitude and circuit compliance compensation & leak compensation in all modes
- ❖ Advance Lung Mechanism calculations: Auto-PEEP and trapped Volume, Exp. Time Constant, Compliance and Resistance
- ❖ C20/C, RVR Monitoring

### OPTIONAL

- ❖ High Flow Oxygen Therapy (HFOT / HFNC)



graphnet neo

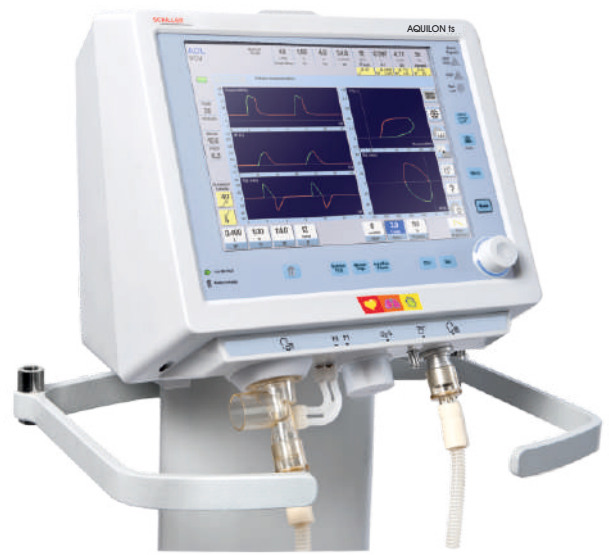
## AQUILON® ts

Adult, Pediatric & Infant Ventilator

- ❖ Designed with high-end pneumatic base
- ❖ A clear and complete display of vital sign variables on a built-in 12.1" TFT- LED colour touchscreen
- ❖ Rapid-access keys and high visibility alarm indicator
- ❖ User-friendly and intuitive programming
- ❖ Auto-clavable & reusable rugged flow sensor
- ❖ Invasive & Non Invasive ventilation available
- ❖ Advanced modes like APRV, MMV + Pressure Support, PSV + Assured Volume
- ❖ Altitude and circuit compliance compensation with leakage compensation
- ❖ 72 hrs trend display
- ❖ Integrated nebulizer (Volume compensated & Inspiratory Synchronize)
- ❖ Advance lung mechanism calculations: Auto-PEEP and trapped volume, WOBI, exp. time constant, P/ V flex monitoring, slow vital capacity, Pi Max (NIF)
- ❖ Suction % O for suction sequence with variable FiO<sub>2</sub>

### OPTIONAL

- ❖ SIMV (PRVC) + PSV, VSV - Volume Support Ventilation



AQUILON® ts

## AQUILON® NV8

Dedicated Neonatal / Infant NIV Ventilator

- ❖ Specially designed for neonates with diversified non-invasive ventilation modes
- ❖ User-friendly interface for easy clinical practice to facilitate medical staff
- ❖ 8 inch display with waveform
- ❖ Accurate and safe fresh gas delivered by iFlow Intelligent Closed-loop Control System
- ❖ Dedicated NIV modes like SNIPPV, NIPPV, NCPAP and HFNC
- ❖ Gas flow rang up to 20 lpm
- ❖ Apnea back up, automatic leakage compensation functions
- ❖ Comprehensive monitoring and alarm system
- ❖ Communication ports like USB , RJ8 for networking and future upgrades
- ❖ Long Battery Backup
- ❖ Compatible with all the flow-driven nCPAP Kits



AQUILON® NV8

## SOPHIE

Neonatal & Pediatric Ventilator

- ❖ 10.4" colour TFT monitor with waveforms and loops
- ❖ Easy to use panel with single rotary knob and direct function keys
- ❖ Integrated humidification system
- ❖ 3 level graded and colour coded alarms
- ❖ Modes: CMV, Assist / Control, SIMV, CPAP, Volume Target
- ❖ Combination modes: SIMV + PSV, Assist / Control + PSV
- ❖ Flow or Pressure trigger
- ❖ Freeze and measure with calipers

### OPTIONAL

- ❖ Upgradable to HFOV (High Frequency Oscillation Ventillation)
- ❖ SNIPPV mode with external trigger mechanism (capsule sensor)
- ❖ SpOC- Automated FiO<sub>2</sub> control based on SpO<sub>2</sub>



SOPHIE

## F-120 mobil

Neonatal Transport Ventilator

- ❖ Suitable for patients from 500 gms to 25 kgs
- ❖ Compact ideal for transport or low cost NICU
- ❖ Standard modes IMV (Pressure), CPAP
- ❖ FiO<sub>2</sub> monitoring is standard
- ❖ Heated hose set and compact humidifier
- ❖ Integrated air compressor versions



F-120 mobil





## PORTABLE CT

- › CereTom® Elite
- › BodyTom® Elite
- › OmniTom® Elite
- › CereTom® Equipped Mobile Stroke Unit



## CereTom® Elite

8-slice Portable Head & Neck CT Scanner

### FOR NEURO & ICU IMAGING

- ❖ 8-slice
- ❖ 1.25 mm, 2.5 mm, 5 mm and 10 mm slice thickness
- ❖ 512 x 512 Image Resolution

### COMPREHENSIVE CAPABILITIES

- ❖ 2D/3D/MPR Viewing
- ❖ Non - Contrast CT and CT Angiography

### BROAD FLEXIBILITY

- ❖ Integrates with all ICU beds & hospital gurneys
- ❖ Scanner moves, patient does not

### EASY INTEGRATION

- ❖ Compatible with all PACS, DICOM 3 certified
- ❖ Cable or wireless connectivity to PACS
- ❖ Battery powered
- ❖ Single phase / Type-B / 110V-200V / 50-60 hz / 15 A



CereTom® Elite

## BodyTom® Elite

32 Slice Portable Whole Body CT Scanner

### OPTIMIZED FOR USE IN

- ❖ OR - Neuro Surgery
- ❖ Interventional Radiology
- ❖ Trauma / ED / ICU
- ❖ Diagnostic Radiology
- ❖ Disaster Management

### SUPERB 3D IMAGE QUALITY

- ❖ 32 Slice
- ❖ 85 cm Gantry, 60 cm FOV, 4 cm Aperture
- ❖ 1.25 mm, 2.5 mm, 5.0 mm and 10 mm slice thickness
- ❖ 512 x 512 image resolution
- ❖ Maximum scan length of 2 meters

### COMPREHENSIVE CAPABILITIES

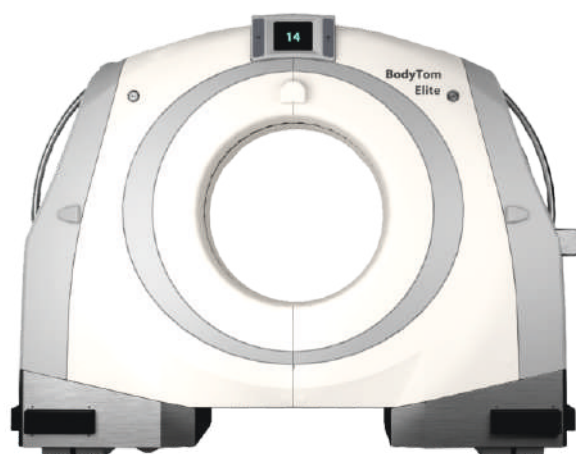
- ❖ Axial, Helical & Dynamic
- ❖ CT Angiography
- ❖ 2D / 3D / MPR / VRT Viewing
- ❖ Automatic exposure control
- ❖ Low Dose Lung Scanning Protocol
- ❖ Metal artifact reduction
- ❖ Tilt sensor for floor qualification

### COMPLETE PORTABILITY

- ❖ Built-in drive system with internal lead shielding
- ❖ Battery-powered

### EASY INTEGRATION

- ❖ DICOM 3.1, HIS, RIS & IHE
- ❖ Compatible with Electronic Medical Record and Planning systems



BodyTom® Elite

# OmniTom® Elite

16 slice Portable Mobile CT Scanner

## OPTIMISED FOR ICU /TRAUMA /ED /OR

- ❖ 16-slice Point-of-care CT
- ❖ Noise Reduction
- ❖ Metal Artifact Reduction
- ❖ Computer Aided Diagnostics
- ❖ Axial, Helical, CT Angiography
- ❖ Compatible with Navigation systems
- ❖ Slice Thickness: 0.625 mm
- ❖ Single Phase Battery operated

## KEY ADVANCEMENTS

### IMPROVED DOSE EFFICIENCY

- ❖ Introducing the N-DAS: Combining an ultra-low electronic noise detector and a 24-bit lossless imaging chain which reduces artificial image noise created by electronics. OmniTom is proud to support MITA smart dose and is XR-29 compliant with mA modulation, structured dose reporting, and standardized protocols

### IMPROVED WORKFLOW

- ❖ World's first medical device with an omni-wheel allowing for intuitive lateral, diagonal, and 360° movement

### INTUITIVE USER INTERFACE

- ❖ Programmed from the ground up for the modern electronics aficionado with rewarding touch interactions, vocal feedback, and beautiful animations. Completed to be simple to use, but with deep customization

### ENHANCED SAFETY SYSTEM

- ❖ The smart sensing collision avoidance sensors visually warn the user of obstructions and stop the OmniTom before incident

### ERGONOMIC DESIGN

- ❖ Made from the ground up with the single user in mind. Let OmniTom shoulder the weight with strategically placed attachment points for all accessories.



OmniTom® Elite



# CereTom Equipped Mobile Stroke Unit

An innovation in pre-hospital stroke treatment

## OPTIMISED FOR ICU / TRAUMA / ED / OR

- ❖ Approximately 87% of strokes are ischemic and could be treatable with TPA if administered within 3 hours
- ❖ Reducing time to treatment is critical to the health of a stroke patient
- ❖ SCHILLER India with NeuroLogica developed India's first mobile stroke ambulance equipped with a CereTom CT Scanner
- ❖ CereTom produces real-time, high-quality low contrast images at the site of triage
- ❖ Diagnosis onsite can reduce time to tPA treatment or transport to a comprehensive stroke center by upto 33%

## CereTom 8-slice mobile CT is designed from the ground up for ambulance use:

### Small footprint

- ❖ Stays out of the way until needed, allowing for movement inside the vehicle
- ❖ Does not necessitate increasing the size of the ambulance

### Powerful imaging, low powered device

- ❖ IAC CT accredited for image quality
- ❖ Extremely low radiation scatter
- ❖ 1300 watts peak off 120 v standard wall plug

### Rugged and reliable

- ❖ Precise engineering in a small package to reduce harm to the machine from shaking, idling, and sudden movements
- ❖ Crash test certified vehicles



MSU



## ROBOTICS

› ROSA<sup>™</sup> BRAIN

## ROSA™

ROSA™ is the first FDA / CE approved device from Zimmer Biomet, which offers cutting-edge proprietary technology for Robotic assisted neurosurgery coupled with neuro navigation.

- ❖ Pre-operative Planning Platform
- ❖ Markerless Automatic Registration (Navigation)
- ❖ Robotic Instrument Guidance
- ❖ Complex Instrument Manipulation

## ROSA™ BRAIN

Surgical Assistance Robot with Contactless Registration

- ❖ Cranial Stereotactic Neurosurgery
- ❖ Ventricular Endoscopic Neurosurgery
- ❖ Trans-nasal Endoscopic Neurosurgery
- ❖ Navigated Open Neurosurgery DBS, SEEG, EPILEPSY
- ❖ Haptic shared control system



ROSA™ BRAIN

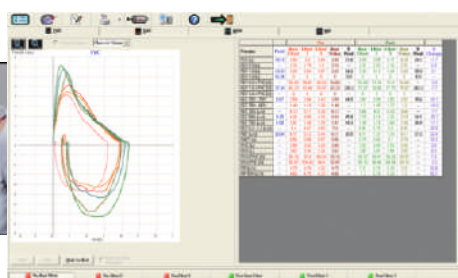




## TELEMEDICINE

### SPANDAN SPIROMETRY

- ❖ Pneumotach sensor for accurate reading
- ❖ Comprehensive Pulmonary Function Testing with four measurements programs for inspiratory and expiratory tests - FVC, SVC, MVC, MV
- ❖ System uses Indian, European and various other norms
- ❖ Uses ATS standards for accuracy of measurement
- ❖ Patient incentive screen for easy test performance
- ❖ Storage and user selectable printing
- ❖ Auto-interpretation / diagnostics with "interpretation Quadrant"
- ❖ Choice for deriving interpretation from either FVC or SVC



SPANDAN SPIROMETRY

### SAMVID

Web Enabled PC - ECG

- ❖ Simultaneous 12-lead acquisition
- ❖ Export ECG Wizard
- ❖ RS - 232 interface for data transmission



SAMVID





# SCHILLER Headquarters

## Baar, Switzerland

Accessories shown are not part of standard configuration All registered trademarks acknowledged.

Technical data are subject to change without notice

# SCHILLER

The Art of Diagnostics

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**Tel.:** + 91 -22-61523333/29209141 **Fax:** + 91 -22-29209142  
**E-mail:** [sales@schillerindia.com](mailto:sales@schillerindia.com), [support@schillerindia.com](mailto:support@schillerindia.com)  
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Authorised Dealer

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