



TRANQUILITY II

Simple and intuitive multi-parameter monitor

Portable, complete and reliable

SCHILLER

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COMPLETE MONITORING IN A PORTABLE DEVICE

The Schiller's TRANQUILITY II is a pre-configured, flexible and reliable adult, pediatric and neonate patient monitor for all types of settings including Surgery, ICU, PACU, Recovery, and Emergency.

The TRANQUILITY II basic configuration is capable to measure ECG, Respiration, SpO2 (Digital & Masimo options), NIBP, and dual Temperature. The ease to upgrade to EtCO2, dual IBP and Anesthetic Agents depending on the clinical needs make this monitor

adaptable to various situations and workflows in any medical environment.

The TRANQUILITY II Patient Monitor is a comprehensive monitoring system designed for compiling, processing, analyzing, and displaying data from up to nine (9) different parameters. With a color LCD 12.1" touchscreen display and optional printer in one device. Compact, lightweight, portable, and built-in battery facilitates the transportation of the patient.



LIMITLESS SUPERVISION

The Tranquility II may function as an independent monitor or connected to SCHILLER's patient monitor central station TRANQUILITY VIEW with the option to integrate into the hospital's Electronic Medical Record using HL7.

TRANQUILITY II

Technical Specifications

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GENERAL SPECIFICATIONS

Compact design is convenient for mobile monitoring

12.1" color TFT touchscreen display

Multi-Lead ECG monitoring

4, 6 & 8 waveforms shown

Drug dose calculations

NIBP list & OxyCRG dynamic view display

Optional: Dual IBP, EtCO₂, Anesthetic Agent and Built-in Thermal Recorder

Networkable with Central Monitoring System (wireless or wired network, up to 32 beds)



PERFORMANCE SPECIFICATIONS

Display: 12.1" color TFT, Touch Screen

Resolution: 800 x 600 pixels

Trace: 4, 6, 8 wave forms

Waveforms: ECG (I, II, III, aVR, aVL, aVF, V1-V6), PLETH, RESP, IBPx2, ETCO₂

Indicator: Alarm indicator
Power indicator
QRS beep and alarm sound

Trend time: Up to 72 hrs

Thermal printer Recorder: Built-in, thermal array, 3 channels

Record width: 48 mm

Recorder paper: 50 mm

Record speed: 25 mm/s

Oxy CRG: Combines HR, SPO₂ and Respiration trends into a single graph



OPERATION ENVIRONMENT

POWER

Source: External AC power and internal battery

AC Power: 100~240VAC, 50/60 Hz, <150VA

Battery: Rechargeable Lithium ion battery

Operating time under normal condition: 2 hours

Operating time after the first alarm of low battery: 15 minutes

TEMPERATURE

Working: 41°F to 104°F (5°C to 40°C)

Storage: -14°F to 113°F (-10°C to 45°C)

RELATIVE HUMIDITY

Working: ≤80%

Storage: ≤80%

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ECG

Input:	5-Lead ECG cable standard 12-Lead ECG cable optional and standard AAMI line for connection
Lead Choice:	5-Lead: I, II, III, aVR, aVL, aVF, V 12-Lead: I, II, III, aVR, aVL, aVF, V1~V6
Gain Choice:	x0.25, x0.5, x1.0, x2.0

FILTERS

Diagnostic mode:	0.05 Hz~130 Hz
Monitoring mode:	0.5 Hz~40 Hz
Surgical mode:	1 Hz~20 Hz

ECG Waveforms:	3 to 12 leads
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HR Display Range:	30~300 bpm
Sweep Speed:	12.5, 25, 50 & 100 mm/s

Accuracy:	± 1 bpm or $\pm 1\%$, whichever is greater
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ST Segment Detection:	by lead
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Measurement Range:	-2~2 mV
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Arrhythmia Analysis:	13 types
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ALARM LIMIT RANGE SETTING

Upper limit:	80-400 bpm
Lower limit:	20-150 bpm



NIBP

Measuring Technology:	Automatic oscillating measurement
Cuff Inflating:	<30s (0~300 mmHg, standard Adult Cuff)

Measuring Period:	AVE <40s
Mode:	Manual, Auto, STAT
Measuring interval in auto mode:	2 minutes~4 hours
Pulse Rate Range:	30 ~250 bpm

MEASURING RANGE

Systolic:	Adult/Pediatric: 40~250mmHg Neonate: 40~135mmHg
Diastolic:	Adult/Pediatric: 15~200mmHg Neonate: 15~100mmHg
Resolution:	1mmHg

ACCURACY

Pressure:	Maximum Mean error: ± 5 mmHg Maximum Standard Deviation: 8mmHg
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Overpressure protection:	Adult mode: 280 (mmHg) Neonate mode: 150 (mmHg)
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Alarm Limit Settings:	SYS 30~240 mmHg DIA 15~180 mmHg
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TEMPERATURE

Range:	T1 and T2: 77 °F~122°F (25°C~50°C) Delta T: 0°F~9.9°F (0°C~5.5°C)
Accuracy:	±0.2°C (25.0°C~34.9°C) / (77°F~94.8°F) ±0.1°C (35.0°C~39.9°C) / (95°F~103.8°F) ±0.2°C (40.0°C~44.9°C) / (104°F~112.8°F)
Display resolution:	0.2°F (0.1°C)
Alarm upper and lower limit setting:	50°F to 122°F (10°C to 50°C)
Channels:	2 channels, provide T1, T2, and Delta T



SpO2

ASpO2:	Anti-motion SpO2
SpO2 Range:	0~100%
SpO2 Accuracy:	+/-2% 70-100%, non-motion +/-3% 70-100%, motion
Pulse Rate Range:	30~250 bpm
Pulse Rate Accuracy:	±2 bpm (non-motion) ±3 bpm (motion)
SpO2 Alarm upper and lower limit setting:	50~100%
SpO2 Probe:	Red light LED wavelength: 660nm ± 5nm Infrared light LED wavelength: 940nm ± 10nm



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Options

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MASIMO TECHNOLOGY

SpO2 Masimo SET®

Reusable & disposable sensors

ARMS Accuracy for RD -100%

Motion and low perfusion

For patients adult, pediatric, and neonate

EtCO2

Mode of Sampling: Sidestream

Measurement technology: Infrared Absorption

Apnea Time: 10~60 s

Alarm Limit: Upper Limit: 20~100 mmHg
Lower Limit: 20~100 mmHg

Respiration rate

ANESTHETIC GAS MONITORING (PHASEIN)

Infrared Sidestream Analyzer (ISA) from Masimo

Range: 0.0~20.0%

Barometric Pressure setting range: 400~850 mmHg

Gas Temperature setting range: 32°F ~ 122°F (0~50°C)

Anesthetic Agents: Sevoflurane, Isoflurane, Halothane, Desflurane, and Enflurane

EtCO2

Nitrous oxide (N2O)

Oxygen (O2)

Respiration rate



IBP

Measuring Technology: Direct Invasive Measurement

Measurement Range: -10~300 mmHg

Accuracy: ±1 mmHg or ±2%, whichever is greater

Channel: 2 channels

Pressure Transducer: Sensitivity, 5µV/V/mmHg

Labels: ART, PA, CVP, LAP, RAP, ICP (MAP)

Impedance Range: 300~3000 Ω



THERMAL PRINTER

Built-in, thermal array, 3 channels



MOUNTING OPTIONS

Rolling Stand

Wall Mount

TRANQUILITY II

The background of the entire page is a repeating pattern of stylized hearts and lungs in a light gray color. The hearts are simple outlines, and the lungs are also simple outlines showing the main lobes. The pattern is dense and covers the entire area.

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