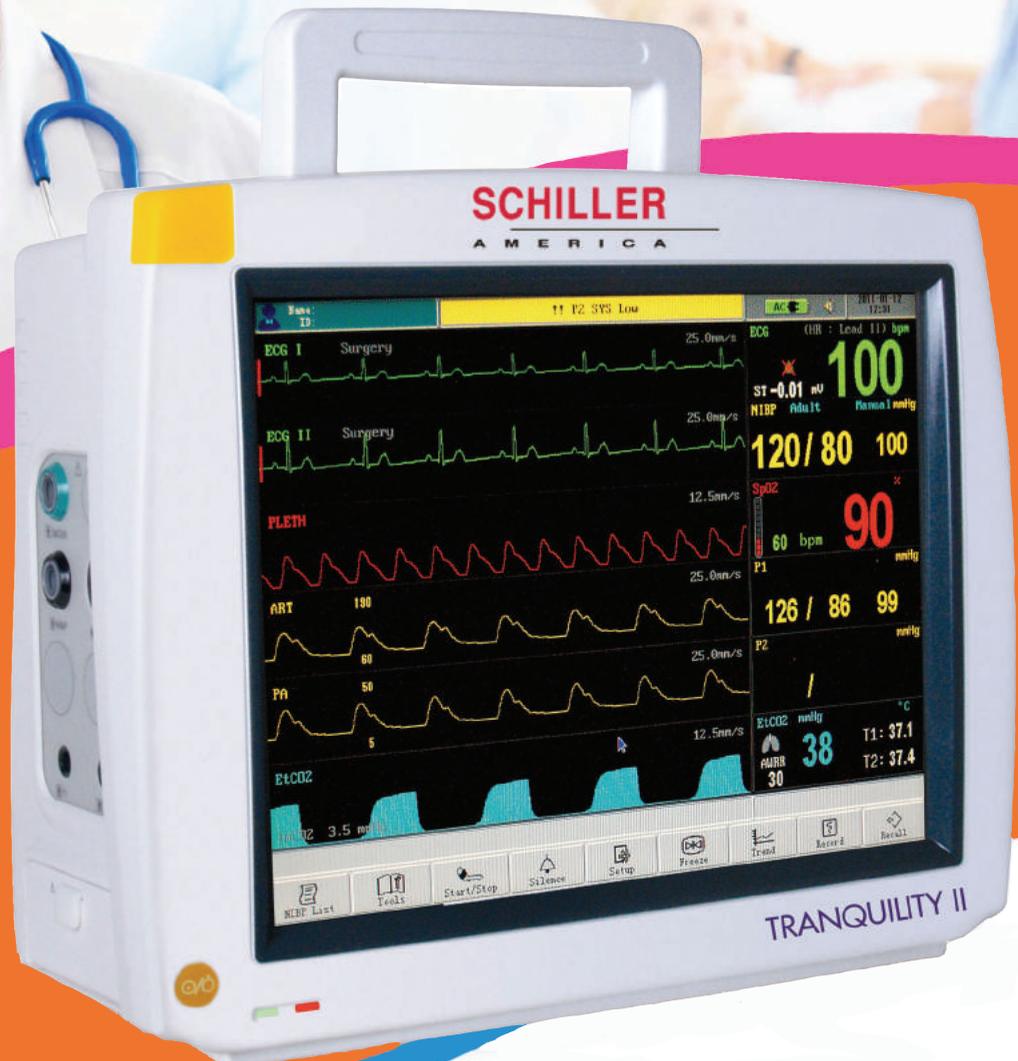


# TRANQUILITY II

TOUCH SCREEN  
PATIENT MONITOR



ECG, SPO2, NIBP,  
HR, TEMP, RESP.

- ☒ 12.1" color TFT display with touch screen.
- ☒ Multi-lead ECG monitoring
- ☒ Touch screen user interface
- ☒ NIBP list & OxyCRG dynamic view display
- ☒ Drug dose calculations
- ☒ Large font display with 4, 6 & 8 waveforms shown
- ☒ Networkable with Central Monitoring System via a wireless or wired network
- ☒ S-T Segment & 72 hours trend data analysis
- ☒ Compact design is convenient for mobile monitoring
- ☒ Multi-lingual settings
- ☒ Optional:  
*Dual IBP, EtCO2 and Built-in thermal recorder*



The Art of Diagnostics

# TRANQUILITY II TECHNICAL SPECIFICATIONS

## Physical Dimensions & Weight

Main Unit

Dimension:	555mm H x 335mm W x 235mm D
Weight:	5kg

## Application

Neonatal, pediatric and adult patients

## Operation Environment

Power

Source:	External AC power or internal battery
AC Power:	100-240VAC, 50/60Hz, <150VA
Battery:	Rechargeable Lead-Acid Operating time under the normal condition: 1 hour Operating time after the first alarm of low battery: 10 mines

Temperature

Working:	5-40°C
Storage:	-20-65°C

Relative Humidity

Working:	30-75%
Storage:	≤80%

Altitude

Operating Altitude:	Up to 5,000 meters
Hyperbaric Pressure:	Up to 405.3 kPa

## Performance Specifications

Display:	12.1" color TFT, Touch Screen
Resolution:	800 x 600 pixels
Trace:	4, 6, 8 or 9 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:	72 hours
Recorder:	Built-in, thermal array, 2 channels Record width: 48mm Recorder paper: 50mm Record speed: 25mm/s, 50mm/s
OxyCRG:	Combines HR, SPO2 and Respiration trends into a single graph

ECG

Input:	5-lead ECG cable and standard AAMI line for connection
Lead Choice:	I, II, III, aVR, aVL, V
Gain Choice:	x0.125, x0.25, x0.5, x1.0, x2.0
Filter:	Diagnostic mode: 0.05-100Hz Monitoring mode: 0.05-75Hz Surgical mode: 1-20Hz
ECG Waveforms:	7 channels
Penetration Voltage:	4000VAC 50/60Hz

ECG (cont.)

Sweep Speed:	12.5, 25 and 50 mm/s
HR Display Range:	15-300bpm
Accuracy:	±1% or ±1bpm, whichever is greater
S-7 Segment Detection:	7 channels
Measurement Range:	-2.0mv - +2.0mv
Arrhythmia Analysis:	13 types
Alarm Limit Range Setting	Upper limit: 80-400bpm Lower limit: 20-150bpm

RESP

Measure Method:	RA-LL impedance
Range:	0-120 rpm
Accuracy:	±3 rpm
Alarm Upper-lower Limit Setting:	Upper limit: 6-120 rpm Lower limit: 3-120 rpm
Sweep Speed:	12.5 and 25 mm/s

NIBP

Measuring Technology:	Automatic oscillating measurement
Cuff Inflating:	<30s (0-300mmHg, standard adult cuff)
Measuring Period:	AVE<40s
Mode:	Manual, Auto, STAT
Measuring Interval in AUTO Mode:	2 min-4 hrs
Pulse Rate Range:	30-250 (bpm)
Measuring Range:	Adult/Pediatric Mode SYS 40-250 (mmHg) DIA 15-200 (mmHg) Neonatal Mode SYS 40-135 (mmHg) DIA 15-100 (mmHg)
Resolution:	1mmHg
Accuracy:	Pressure Maximum Mean error: ±5mmHg Maximum Standard deviation: 8mmHg
Overpressure Protection:	Adult Mode 280 (mmHg) Neonatal Mode 150 (mmHg)
Alarm Limit Setting	SYS 50-240 mmHg DIA 15-180 mmHg

TEMP

Range:	0-50°C (32-122°F)
Accuracy:	Without sensor
Display Resolution:	0.1°C
Alarm Upper-lower Limit Setting:	Upper limit 0-50°C Lower limit 0-50°C
Channel:	2 channels, provide T1, T2, ΔT

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)
Alarm Upper-lower Limit Setting:	upper limit 70-100% lower limit 70-100%

SpO2 Probe

Red light LED wavelength	660nm±5nm
Infrared light LED wavelength	905nm±10nm

IBP (OPTION)

Measurement Range:	-50-300mmHg
Channel:	2 channels
Pressure transducer:	sensitivity, 5μV/V/mmHg
Impedance range:	300-3000 Ω
Transducer sites:	ART, PA, CVP, RAP, LAP, ICP
Resolution:	1mmHg
Accuracy:	±1mmHg or ±2%, whichever is greater
Alarm range:	-50-300mmHg

EtCO2 (OPTION)

Mode of Sampling:	Sidestream
Principle of Operation:	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.
CO2 measurement Range:	0 to 150 mmHg (0 to 19.7%, 0 to 20 kPa)
CO2 Calculation Method:	BTPS (Body Temperature Pressure Saturated)
CO2 Resolution:	0.1mmHg(0-69mmHg), 0.25mmHg(70-150mmHg)
CO2 Accuracy:	0-40 mmHg ± 2 mmHg 41-70 mmHg ± 5% of reading 71-100 mmHg ± 8% of reading 101-150 mmHg ± 10% of reading Above 80 breath per minute ± 12% of reading
Sampling rate:	100Hz
Respiration Rate:	2-150 bpm
Respiration Rate accuracy:	±1 breath
Response Time:	<3 seconds - includes transport time and rise time
Inspired CO2 measurement Range:	3-50 mmHg

Specifications subject to change without notice.

## Selectable Screens:

4, 6 or 8 waveforms



Authorized Distributor:

# SCHILLER

A M E R I C A

2131 NW 79th Avenue • Doral, FL 33122 • USA

Phone: (1) 888-845-8455 • Fax: (1) 786-845-0602

Web: [www.schilleramerica.com](http://www.schilleramerica.com) • Email: [sales@schilleramerica.com](mailto:sales@schilleramerica.com)