

Masimo Patient SafetyNet™ System

Accurate, actionable patient alarms delivered directly to qualified caregivers help you keep patients safe on general care floors



When You Leave the Room,
We'll Still Be There.™



Masimo Patient SafetyNet System at a Glance

MASIMO SET® + MASIMO RADNET® = THE MASIMO PATIENT SAFETYNET SYSTEM

The Masimo Patient SafetyNet system combines the gold standard performance of Masimo SET pulse oximetry with respiration rate monitoring¹ and wireless clinician notification via pager through the Masimo RadNet remote monitoring and clinician notification system. Together, they provide an unmatched level of patient safety on general care floors in a system that can either be integrated into your existing IT infrastructure or operate as a stand-alone system.

- > Supports up to 80 bedside monitors
- > Wired or wireless 802.11 a/b/g supports both 802.11i security as well as 802.1x authentication
- > Masimo SET virtually eliminates false alarms, while automatic alarm escalation allows for customization based on hospital policy and nursing workflow
- > Easy-to-use, intuitive touch-screen interface enables quick patient admit/discharge and alarm notification
- > Flexible format display allows you to display up to 40 patients on a single screen with up to four different user interfaces possible on a single server



BECAUSE SENTINEL EVENTS OCCUR WHEN YOU LEAST EXPECT THEM, TRUST MASIMO TO HELP YOU AVOID A FAILURE TO RESCUE

The last thing you expect when otherwise healthy patients are admitted for routine procedures is that they won't go home due to a sentinel event.

- > Unfortunately, the combination of patient-controlled analgesia and lower staff-to-patient ratios on general care floors make it less likely that a clinician will be there to observe an avoidable adverse event.
- > With the Masimo Patient SafetyNet system, you and your patients can rest easier knowing accurate, actionable alarms are instantly sent to assigned clinicians through a flexible, cost-effective system that can leverage existing IT infrastructure.

Patient SafetyNet facilitates appropriate early clinical response, preempts sentinel events and avoids unnecessary ICU transfers while helping you meet Joint Commission, APSF, and ASA guidelines



Connect Patients and Caregivers

Quickly, Easily, and Accurately.



Masimo bedside devices continuously and noninvasively monitor SpO₂ and pulse rate, as well as other clinically valuable measurements as needed.

Masimo RadNet instantly sends alarms to qualified clinicians for review and immediate bedside intervention, with automatic escalation to additional clinicians when needed.

Dispatch rapid response teams *only* when needed, since Patient SafetyNet has been shown to decrease rapid response activations and ICU transfers.

No matter what level of clinical response is needed, Patient SafetyNet facilitates appropriate clinical response, preempts sentinel events and avoids unnecessary ICU transfers.

Masimo SET—The Enabling Technology

ONLY THE UNMATCHED ACCURACY AND RELIABILITY OF MASIMO RAINBOW SET—THE GOLD STANDARD IN PULSE OXIMETRY—MAKES TRUSTWORTHY CLINICIAN NOTIFICATION ON GENERAL CARE FLOORS POSSIBLE

Unacceptably high false alarm rates with conventional pulse oximetry (often as high as 70%) make it inappropriate for continuous monitoring on general care floors. Masimo SET is the best pulse oximetry choice for patient safety, clinical efficiency, and cost effectiveness.

- > Measure-through motion and low perfusion performance of Masimo SET has been proven to outperform all other pulse oximetry technologies in more than 100 independent and objective studies. **93% REDUCTION OF FALSE ALARMS** ↓
- > Masimo SET has been shown to deliver a 93% reduction in false alarms while detecting 97% of true alarms—even under the most difficult clinical conditions of motion and low perfusion, when other pulse oximeters fall short. **97% TRUE ALARM DETECTION** ✓
- > Advanced capabilities including Desat Index 3D Alarm—available as part of Masimo SET since 2005—provide early notification of moderate desaturation cycles that may precede respiratory failure.
- > Upgrading the Patient SafetyNet system to Masimo Rainbow SET through a simple software upgrade allows you to measure a patient's hemoglobin noninvasively and continuously, which may improve patient safety by providing an earlier indication of undetected internal bleeding.



PATIENT SAFETYNET LETS YOU CHOOSE THE CLINICAL MEASUREMENTS THAT ARE RIGHT FOR YOU NOW . . .

. . . and be confident that your investment in patient safety won't become obsolete tomorrow

- > SpO₂
- > Respiration Rate¹
- > SpHb™
- > SpCO®
- > PVI™
- > Pulse Rate
- > Perfusion Index
- > SpOC™
- > SpMet®

Masimo's gold standard accuracy combined with our advanced alarms let you effectively monitor patients without nuisance alarms

- > Masimo Rainbow SET measure-through motion and low perfusion pulse oximetry virtually eliminates false alarms.
- > Masimo Desat Index, PI Delta, and Rapid Desat alarms work together to recognize and capture clinically significant patterns of desaturation and other physiological events that may be missed by static SpO₂ and pulse rate alarms.
- > Configurable alarm rules at bedside and system levels provide maximum clinical flexibility.
- > Alarm escalation rules ensure every patient is protected by Masimo Patient SafetyNet *all* the time.

IN-DEPTH STUDY SHOWS SIGNIFICANT REDUCTION IN DISTRESS CODES, RESCUE ACTIVATIONS AND ICU TRANSFERS

An eleven month evaluation by a team of clinicians at Dartmouth-Hitchcock Medical Center, covering 2,841 patients over 9,978 monitoring days, showed Masimo Patient SafetyNet provides early identification of analgesia-induced respiratory depression and cardiac abnormalities identified by high and low pulse rate, poor heart rate control and bradycardia. The study showed the following results on a single 36-bed general care post-surgical floor:

70% DECREASE IN DISTRESS CODES AND RESCUE ACTIVATIONS ↓

50% DECREASE IN PATIENT TRANSFERS TO INTENSIVE CARE UNITS ↓

163 ICU DAYS SAVED ANNUALLY ✓

"The Masimo Patient SafetyNet system makes it possible for our clinicians to identify patient distress earlier—preventing codes and rescues—and initiate appropriate intervention more rapidly to improve patient outcomes, recoveries and clinician efficiencies. All of this contributes to a safer general care floor for our patients."

George T. Blike, M.D., Medical Director, Patient Safety, Dartmouth-Hitchcock Medical Center

CONFIGURABLE SCREEN ALLOWS YOU TO VIEW THE NUMBER OF PATIENTS, CLINICAL MEASUREMENTS AND LEVEL OF DETAIL THAT ARE IMPORTANT TO YOU

With Masimo RadNet, you choose the system configuration that meets your specific clinical need. You can display real-time data from up to 40 patients at a time, and select up to four Masimo Rainbow SET measurements based on your patient population and clinical practices.



- > The configurable Masimo RadNet central assignment station is shown at left in patient detail mode displaying four physiological parameters—SpO₂, pulse rate, respiration rate, and total hemoglobin (SpHb).

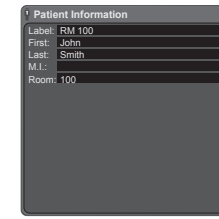
Masimo RadNet—The Backbone System

A COST-EFFECTIVE SOLUTION THAT SEAMLESSLY INTEGRATES INTO YOUR HOSPITAL'S IT INFRASTRUCTURE OR OPERATES AS A STAND-ALONE SYSTEM

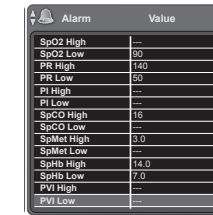
Masimo RadNet remote monitoring and clinician notification system is designed from the ground up to be an integrated IT solution, using IEEE industry standards for connectivity to allow for more efficient sharing of data across your hospital's IT platforms. By leveraging existing IT infrastructure when possible, Masimo RadNet may provide your hospital with a lower overall cost of ownership and improved financial benefits.

Instantly and Automatically Transmit Patient Data to a Caregiver Who Can Intervene with Confidence

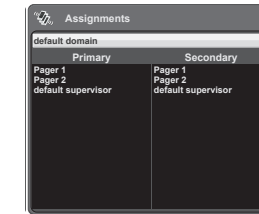
ADMITTING PATIENTS TO THE SYSTEM IS AS EASY AS 1-2-3



Step 1
IDENTIFY THE PATIENT
Simply enter patient name and room number



Step 2
SET ALARM LIMITS
Confirm pre-set patient alarm limits or modify as needed



Step 3
SELECT CLINICIAN PAGERS
Select specific pagers to which alarms are to be sent



> Accurately monitor patients at the bedside with Masimo pulse oximetry and other clinically relevant measurements

> Continuous streaming clinical data transmitted over the IT network

> IT-hosted server with configurable alarm management logic

> Alarm notification directly to qualified caregiver via low-cost, easy-to-use pager

> Early intervention avoids adverse events



> Choose the patient monitor or set of monitors that are right for your specific clinical need

> Speed appropriate clinical response to the bedside with real-time transmissions of clinically relevant alarms to designated caregivers

Masimo Patient SafetyNet



RADNET SYSTEM PERFORMANCE:

MASIMO RADNET BEDSIDE RADIO

dimensions 6.5" (16.5 cm) L x 3.3" (8.5 cm) W x 1.2" (3.0 cm) H
 interface..... ethernet (RJ-45) serial (DB-9) 802.11a/b/g
 security: WPA-TKIP, WPA2-AES (128-bit) 40/64-, 104,128/152-bit WEP IEEE 802.1X wireless client support and wired LAN authentication EAP-TLS, PEAP and LEAP-compatible authentication
 operating temperature.....32 - 104 degrees F (0 - 40 degrees C)
 power supply..... 110 - 240 VAC
 compatible Masimo devices Radical-7, Rad-8

MASIMO RADNET SERVER

CPU minimum Quad-Core Intel Xeon 2.0 GHz
 memory..... minimum 4GB RAM
 storage ... minimum 160 GB RAID 1 storage array management.....remote access capable
 operating system..... Linux
 communications redundant Gigabit 10/100/1000 BaseT Ethernet NICs
 AC power.....redundant power supplies (110 – 240 VAC, 50/60 Hz)
 accessoriesmonitor/keyboard/mouse
 temperature, operating50 – 95 F (10 – 35 C)
 form factor..... 2U Chassis Enclosure
 physical dimensions (HxWxD) 3.44 x 17.64 x 27.50 in (8.75 x 44.80 x 69.88 cm)
 weight 51.5 lb (19.22 kg)

MASIMO RADNET CLINICIAN ASSIGNMENT STATION

CPU minimum 1.0 GHz
 memory..... minimum 1 GB RAM
 storage minimum 8 GB HDD
 graphicsminimum 1280 x 1024 resolution
 operating system.....Windows XP, Vista
 communicationsminimum ethernet 10/100 BaseT
 AC power.....110 – 240 VAC 50/60 Hz
 accessories keyboard/mouse

MASIMO RADNET HP TOUCHSMART CLINICIAN ASSIGNMENT STATION

CPUminimum Intel Core 2 Duo, 2.0 GHz
 memory..... minimum 4 GB RAM
 storage 320 GB HDD
 operating system..... Windows Vista Home Premium
 communications 10/100/1000 BaseT Ethernet NIC
 AC power.....110 – 240 VAC, 50/60 Hz
 temperature, operating50 – 95 F (10 – 35 C)
 physical dimensions (HxWxD) ... 17.4 x 21 x 2.6 in (44.20 x 53.34 x 6.60 cm)
 weight24 lb (10.89 kg)

MASIMO RADNET PAGING TRANSMITTER PERFORMANCE

transmit power5w
 frequency UHF 440 - 470 MHz
 AC power..... 110 - 240 VAC 50/60 Hz

dimensions 2.8 x 8.5 x 10 inches (73 x 216 x 254 mm)
 weight1.9 lbs (850 g)

EXTERNAL CONNECTORS

RJ45 standard network cable
 antenna..... BNC

MASIMO RADNET PAGER DISPLAY

display type LCD
 information date, origin and type of alarm, current clinical parameter, and level of alarm
 notification modes tone and/or vibrate
 dimensions80 x .54 x .19 mm
 weight (with battery) 65 grams

battery type 1 AA alkaline

Transmit distances for the Patient SafetyNet bedside radio and the Patient SafetyNet paging transmitter will vary depending upon the structural surroundings (construction, shielding, interfering devices, etc.)

MASIMO SET PERFORMANCE:

Refer to Masimo Radical-7 and Masimo Rad-87 product specifications.

¹ Respiration rate available via the CAS 750 multiparameter monitor.

INTERFACE MASIMO RADNET TO A MASIMO PAGING SYSTEM, YOUR OWN INTERNAL PAGING OR OTHER MESSAGING SYSTEM:



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 tel 1-877-4-Masimo
 info-america@masimo.com

Masimo International
 tel +41-32-720-1111
 info-international@masimo.com

