

K07 1472



SEP 21 2007

# LARSEN & TOUBRO LIMITED

ELECTRICAL & ELECTRONICS DIVISION - ELECTRONIC PRODUCTS

Mysore Complex, KIADB Industrial Area, Hebbal - Hootagalli, Mysore - 570 018 • Tel : +91(821) 2402561 • Fax : +91(821) 2402468

E - Mail :

Ref :

30<sup>th</sup> March 2007

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## 510(K) SUMMARY

(Per section 807.92 ©)

<b>CONTACT DATA</b>			
<b>Submitter's Name</b>		Larsen & Toubro Limited	
<b>Address</b>		KIADB Industrial Area, Hebbal Hootagalli, Mysore – 570018, Karnataka, INDIA	
<b>Telephone</b>	91-821-2402561	<b>Fax</b>	91-821-2402468
<b>Contact Person</b>	A.B.Deshpande	<b>Title</b>	Head – Quality Assurance & Management Representative
<b>E-Mail address</b>		DeshpandeAB@myw.ltindia.com	
<b>Date the summary was prepared</b>		30 <sup>th</sup> March, 2007	

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DEVICE	
<b>Trade name</b>	PLANET 55
<b>Common name</b>	Patient Monitoring System
<b>Classification name</b>	Vital Signs Monitor

PREDICATE DEVICE IDENTIFICATION			
<b>CFR21 Section</b>	870.2300	<b>Product code (optional)</b>	MWI
<b>Classification panel</b>	Cardiovascular		
<b>Device Class</b>	Class II		
<b>Legally marketed Comparison Device / K#</b>	<ul style="list-style-type: none"> <li>• PLANET 50 Patient Monitoring System (L&amp;T Medical Equipments &amp; systems) / K043370</li> <li>• STAR 50 Patient Monitoring System (L&amp;T Medical Equipments &amp; systems) / K051608</li> </ul>		

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### DEVICE DESCRIPTION

PLANET 55 is a multi-parameter patient monitoring system for continuous monitoring of the physiological parameters ECG (3/5 lead), Respiration, NIBP, Temperature, SpO<sub>2</sub>, and CO<sub>2</sub>.

PLANET 55 is a 4-channel monitor with 8.4" TFT display capable of displaying ECG, Respiration, SpO<sub>2</sub>, CO<sub>2</sub>, digital values of HR/PR, SpO<sub>2</sub>, RR, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean), Temperature, EtCO<sub>2</sub> and FiCO<sub>2</sub> readings. It has selective 24\48\72 Hours tabular and graphical trends. It has special feature of NIBP having a trend of storing last 240 readings. It has Alarm Recall facility with last 24 patient alarms details. It has a two-channel thermal array recorder for printing of Tabular trends & waveforms. It has got optional communication features – USB, RS232, RS485 Infrared remote and Ethernet.

### INTENDED USE OF THE DEVICE

The PLANET 55 multi-parameter Patient Monitoring system is intended to monitor a single adult, pediatric or neonatal patient's vital signs at the bedside or during intra-hospital transport along with the appropriate accessories mentioned / supplied with the unit. Vital signs parameters include ECG (3 lead /5 lead), SpO<sub>2</sub>, Respiration, Temperature and Capnography (CO<sub>2</sub>). It can also display the digital values of HR/PR, SpO<sub>2</sub>, RR, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean), Temperature, EtCO<sub>2</sub> and FiCO<sub>2</sub> readings.

The user, responsible to interpret the monitored data made available, will be a professional health care provider. The device permits patient monitoring with adjustable alarm limits as well as visible and audible alarm signals. The monitor is not intended for home use.

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## TECHNOLOGICAL CHARACTERISTICS OF THE DEVICE COMPARED TO THE PREDICATE DEVICE

**Device:** Larsen & Toubro limited make PLANET 55 Patient Monitoring System.

**Predicate device:**

- PLANET 50 patient Monitoring System (Make: L&T Medical Equipments & systems) / K043370
- STAR 50 patient Monitoring System (Make: L&T Medical Equipments & systems) / K051608

The parameters available with the Larsen & Toubro Limited make PLANET 55 Patient monitoring system are available with the predicate device - Larsen & Toubro Limited make PLANET 50 patient monitoring system & STAR 50 patient monitoring system (for 3/5L ECG, Respiration and Temperature).

Comparison of all the parameters of PLANET 55 to that of the predicate device is given in the "Substantial Equivalence Equipment comparison" document.

**Compliance to standards:**

The following international standards are referred.

IEC 60601-1 Medical Electrical safety

IEC 60601-1-2 EMC compliance

**Conclusion:**

Based on the Technological characteristics of PLANET 55 and its comparison with that of predicate device Planet 50 and Star 50 (for 3/5L ECG, Respiration and Temperature), Larsen & Toubro Limited believes that their device is substantially equivalent to this predicate Monitors and doesn't pose any additional risk on safety & effectiveness of the device.

(N Ravindran)

Head - Design & Development



Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

SEP 21 2007

Larsen & Toubro LLC  
c/o Mr. Jay Y. Kogoma  
Intertek Testing Services NA, Inc.  
2307 East Aurora Rd., Unit B7  
Twinsburg, OH 44087

Re: K071472  
Trade/Device Name: Planet 55 Monitor  
Regulation Number: 21 CFR 870.2300  
Regulation Name: Cardiac Monitor (Including Cardiotachometer and Rate Alarm)  
Regulatory Class: Class II (two)  
Product Code: MWI  
Dated: September 5, 2007  
Received: September 6, 2007

Dear Mr. Kogoma:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Page 2 - Mr. Jay Y. Kogoma

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Bram D. Zuckerman, M.D.  
Director  
Division of Cardiovascular Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known) K071472

Device name: PLANET 55

Indication for use:

The PLANET 55 multi-parameter Patient Monitoring system is intended to monitor a single adult, pediatric or neonatal patient's vital signs at the bedside or during intra-hospital transport along with the appropriate accessories mentioned / supplied with the unit. Vital signs parameters include ECG (3 lead /5 lead), SpO<sub>2</sub>, Respiration, Temperature and Capnography (CO<sub>2</sub>). It can also display the digital values of HR/PR, SpO<sub>2</sub>, RR, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean), Temperature, EtCO<sub>2</sub> and FiCO<sub>2</sub> readings.

The user, responsible to interpret the monitored data made available, will be a professional health care provider. The device permits patient monitoring with adjustable alarm limits as well as visible and audible alarm signals. The monitor is not intended for home use.


Prescription Use   
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The -Counter Use   
(Part 21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

  
\_\_\_\_\_  
(Division Sign-Off)  
Division of Cardiovascular Devices  
510(k) Number K071472