Digital Holter / OxyHolter / 12-Lead

Description

Large soft-keys, easy to read multi-line LCD and many foreign language options are among the features that distinguish the DR181 Holter Recorder. Extra battery capacity makes it ideal for long Holter studies of up to 72 hours (lithium batteries). Use either a 5- or 7-lead patient cable with the 3-channel configuration.

The DR181 recorder prevents identification mixups by storing Patient ID on removable media and units may be rapidly redeployed to the next patient while patient data is analyzed from the removable media.

Applications

- Up to 72-hour Holter Monitoring
- 12-Lead ECG
- OxyHolter / Sleep Apnea

Features

3-Channel Holter: 5-, 7- or 12- lead

12-lead / 9 Holter: No short-cuts! This 12-lead system does not use arithmetically derived or reconstructed data from non-standard Holter lead hook-ups.

OxyHolter[®] Recorder: Quickly isolate (or correlate) cardiac and pulmonary issues. With synchronized sets of data — one set of cardiac data (standard Holter) and one set of pulmonary data (saturated O₂ levels via pulse oximetry) conveniently obtained via the DR181 and NorthEast Monitoring's proprietary OxyHolter[®] cable.

Availability

• Support and updates included under Warranty

- Extended Warranty and support available
- Contact us for European Availability

Industry Leading 3-Year Warranty



NorthEast Monitoring, Inc. advancing Holter technology™



Specifications

Sampling rate: Resolution: Recording bandwidth: 1440 samples/second 12-bit, 12.50 μV/LSB 0.05- 70 Hz

Physical Specifications

Dimensions: 12.3 cm x 7.0 cm x 2.4 cm (4-7/8 in x 2-3/4 in x 1.0 in) Weight: 184 grams (6.5 oz) w/batteries and SD card; 136 grams (4.8 oz) w/o batteries

Electrical Specifications

Data stored: 180 samples/second.

In high resolution mode, signal processing ensures capture of peaks of narrow QRS complexes

Pacemaker sensitivity: 2 millivolts

Pacemaker pulse duration: 100 to 2,000 microseconds

Environmental Specifications

The operating range of the device is between 10 and 45 degrees C, between 10 and 95% humidity, and between 700 and 1060 hPa pressure.

Store and/or transport the recorder at temperatures between-40 and 70 degrees C, between 10 and 100% relative humidity, and 500 and 1060 hPa pressure. The recorder has an Ingress Protection Marking of IP22.

Battery Specifications

2 AA batteries: alkaline, rechargeable or lithium

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DR181 OxyHolter

A New Approach for Evaluation and Management of Cardiopulmonary Diseases



Apnea: Manage O₂ therapy and screen for sleep disorders. Twenty-four hours of SpO₂ data correlated with 1 or 2 channels of cardiac data and optional airflow allow quantitative observations (value and trend) of response to O₂ variations. Proprietary tool removes artifact from HR and O₂ data.

OxyHolter[®] can be used with a Holter-only cable (3CH of ECG), an OxyHolter cable (2 CH ECG, 1CH of mux'd beat and SpO₂) or an OxyHolter[®]/A cable (1 CH ECG, 1CH mux'd beat and SpO₂ and 1CH directly measured airflow). DME's can use OxyHolter[®] to substantiate or "fine tune" beneficiary's oxygen requirements. With an accurate tool like OxyHolter[®], O₂ levels are optimized to determine replenishment schedules. The savings derived drop directly to the "bottom line" of a DME provider and quickly provide an ROI for OxyHolter. OxyHolter[®] is designed with the following goals in mind:

1) Ease-of-use – easy hookups, large LCD screen, big buttons, several language options

- 2) Accuracy of data 95%+ sensitivity and specificity for OSA when compared to full PSG
- 3) Low cost of consumables less than \$4 / patient OxyHolter® and \$5 / patient OxyHolter®/A
- 4) Durability standard 3-year warranty, optional additional 2 years for total of 5 years

DR181 12-Lead

Digital 12-Lead Holter Recorder

The DR181 in a 12-lead configuration provides a high quality research and clinical evaluation tool. It records 12-lead / 9 channels of data – no short-cuts! Our 12-lead system does not use arithmetically derived or reconstructed data from non-standard Holter lead hook-ups. These short-cut methods may capture accurate data for normal beats, but the picture degrades sharply for virtually all morphologies of interest. The DR181 12-lead settings can be adjusted to fit your 12-lead recording requirements. Intervals and strip lengths are adjustable, and you can also choose to record continuously in all 12-leads at a resolution of 12 bits per sample.

- Meets EC-11 and EC-38 standards
- Reduce artifact with shielded cables
- Proven reliability
- Foreign language interfaces

- All digital recording
- Pediatric (high sensitivity mode)
- Compatible with our HE/LX software
- Maximize Holter reimbursements





NB: In the U.S.A., Federal Law restricts devices to sale by or on the order of a physician. Not for in vitro diagnostic use. Not intended to replace real-time telemetry monitoring for patients suspected of having life-threatening arrhythmias.