

NorthEast Monitoring, Inc.

advancing Holter technology™

DR181 Digital OxyHolter® Recorder, 3CH

Meets EC-38
standard



Ergonomic
design



Proven
reliability



Maximize
Holter
reimbursements



Reduce artifact
with shielded
cables



Pacemaker
detection
standard



Foreign
language
interfaces



Industry-leading
3-year warranty



ECG SpO₂ Airflow

The DR181 is the latest version of the reliable and popular DR180 series which has been in production since the early 1990's. With synchronized sets of data - cardiac (standard Holter), pulmonary (saturated O₂ levels via pulse oximetry) and optionally, airflow - the OxyHolter® represents a quantum step in your ability to isolate or correlate cardiac and pulmonary issues.

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®.

Sleep labs can screen and diagnose patients for the most common forms of OSA at 1/10th the cost of a full PSG study. Beds in the sleep facility are available for more complex sleep cases and higher revenue titration activities. More patient throughput, higher revenue per-bed, less cost to the payor equals good medicine and good business

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®, \$5 / patient OxyHolter®/A
- 4) Durability – standard 3-year warranty, optional additional 2 years for total of 5 years

Built-in safeguards insure deployment with sufficient battery levels, high-quality lead hook-ups and unambiguous patient ID. All units are rugged and built to last. They carry the industry's best warranty of 3 years, along with optional extensions to 5 or more years. Choose the best unit for your application. A number of key features make these units the quality and technology leader in the industry today. Contact NorthEast Monitoring or turn over for more details.

DR181 OxyHolter® Features

- ◆ **Meets EC-38 standard**
Meets applicable sections of ANSI/AAMI EC38-1994 "Ambulatory Electrocardiographs."
- ◆ **Ergonomic design**
Large, easy view screen and soft-keys make the unit exceptionally easy to use. The large Event marker button operates in conjunction with interactive and customizable patient diary via user-programmable soft-keys.
- ◆ **Proven reliability**
Hundreds of Holter units are in use worldwide. Real-world experience is designed into every unit.
- ◆ **Maximize Holter reimbursements**
Our system allows your office to "capture" reimbursement for all applicable CPT (Current Procedural Terminology) codes for Holter, overnight unattended oximetry, overnight unattended sleep study, and 6mwa. Removable digital storage memory allows rapid redeployment of the unit to the next patient
- ◆ **Reduce artifact with shielded cables**
Shielded cables provide better signal integrity and noise immunity. Our cables are carefully shielded and impedance matched and they provide better SNR than any other cable on the market. Active electronics built into the cable accurately capture oximetry and airflow data.
- ◆ **Pacemaker detection standard**
The conflicting requirements for signal sensitivity (wide bandwidth and high sample rate) and long battery life have been uniquely resolved to provide highly accurate diagnostic information.
- ◆ **Foreign language interfaces**
Multiple foreign languages are programmed into each unit to suit diverse patient populations. Currently support Danish, English, Finnish, French, German, Italian, Polish, Portuguese, Spanish and Turkish.
- ◆ **Industry-leading 3-year warranty**
These units are built-to-last. Our field return rate is proven to be so low that we can offer the industry's longest warranty -- and then extend that to 5 or more years to add even more value to your investment.
- ◆ **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.
- ◆ **Cable options**
May be used with Holter (ECG), OxyHolter (ECG and oximetry), or OxyHolter/A (ECG, oximetry, airflow).
- ◆ **Maximize good quality recording cycles**
Checks battery state, lead hook-up quality, date and patient ID on LCD prior to deployment. No mix-ups with patient data because patient ID is encoded on memory card.
- ◆ **All digital recording**
Reliable digital technology is used throughout, enhancing service life and lowering total cost of ownership.
- ◆ **Compatible with NorthEast Holter LX® Analysis software**
Although the raw data for oximetry and airflow is available with Holter LX Analysis, the optional LX Sleep add-in is required to automate the calculation of AHI and generate specific sleep reports.

The DR181 in either OxyHolter (this includes analysis for OSA, i.e., Sleep) or the 12-lead mode requires v5.4b or newer version of Holter LX Analysis. 3-channel recording mode is compatible with v5.2 or newer version of Holter LX Analysis.

*A New Approach
for Evaluation and
Management of
Cardiopulmonary
Diseases*

DR181 OxyHolter® Specifications

Recording duration:

72 hours, with lithium batteries
48 hours, with alkaline batteries
24 hours, with rechargeable batteries

Recording bandwidth:

0.05 - 70 Hz

Resolution:

12-bit, 12.50 µV/LSB

Prefilter sampling rate:

1440 samples/second

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.), with batteries and SD card;
136 grams (4.8 oz.), without batteries

Power:

2 AA batteries: alkaline, rechargeable or lithium

Storage capacity:

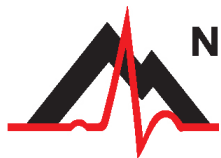
32 MB - 2 GB SD flashcard

Distributed by:

510(k)K004007

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

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