

Manual Purpose

The WAM (Wireless Patient Cable) user manual explains how to:

- Acquire and transmit 12-lead ECG signals to a receiving device
- Acquire and transmit 12-lead Rhythm strip to a receiving device
- Power the WAM On and Off
- LED Messages / Buzzer Beep Tone
 - Power On/Off
 - RF communication link status
 - Low Battery Warning
 - Lead check

Audience

This manual is written for clinical professionals who are expected to have a working knowledge of medical procedures and terminology as required for monitoring and/or acquiring clinical data from cardiac patients.

Indications for Use

The WAM cable is a non-invasive prescription device:

- Indicated for use as a radiofrequency physiological signal transmitter that acquires and delivers RF transmission of real-time electrocardiographic data obtained during resting/physiologic electrocardiographic testing.
- Indicated for use in a clinical setting, by qualified medical professionals, properly trained for acquiring ECG data and use of the system. The personnel must be experienced in cardiovascular problematic situations and emergency procedures or pathologies related to cardiac involvements. It is not intended as a sole means of diagnosis.
- Indicated for use in hospital and physicians office, patients of any age where ECG acquisition is done (e.g., patients in Coronary Care Units, Step-Down Units, Emergency Departments, clinics, physicians offices, sports medicine facilities or rehabilitation departments).
- It is not designed for use in highly invasive environments, such as an operating theatre.

The cardiac data and analysis provided is reviewed, confirmed, and used by trained medical personnel in the diagnosis of patients with various cardiac rhythm patterns.

System Description

The WAM incorporates wireless electrocardiographic technology to achieve the real-time acquisition and RF transmission of simultaneous 12-lead ECG data with diagnostic quality. Transmission to a Mortara receiver module allows the cardiac signals to be displayed on a monitoring device such as an electrocardiograph without the need for a direct connection to an electrocardiograph.

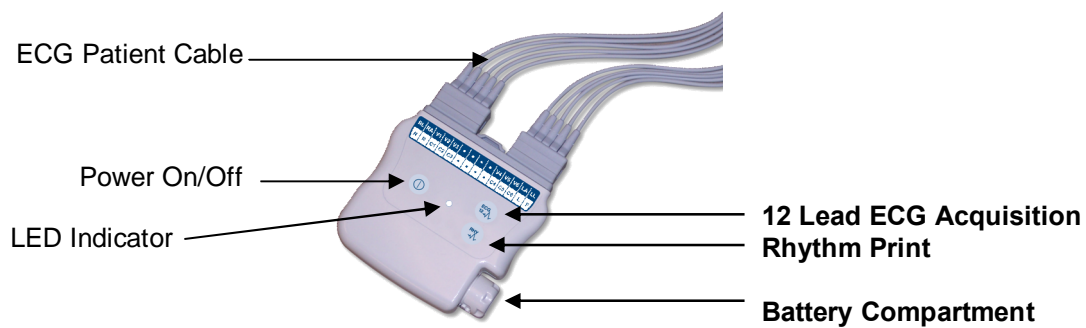
The WAM uses a single AA battery.

The following equipment is necessary to use the WAM:

- One AA battery, 1.5V
- Mortara receiver module in the electrocardiograph
- ECG cable

WAM with ECG Cable

Figure 1-1, Front View



Part Numbers

| Description | Part Numbers |
|---|-----------------|
| Wireless Patient Cable | WAM-XXX-XXXXX |
| WAM Battery Cap Assembly | 8356-008-51 |
| WAM Carrying Pouch with Belt | 8485-025-50 |
| COMBINER REPLACEMENT WAM LEADS 5 POSITION Plastic part % combines+5 leads into a groups for plugging into the WAM | 9293-046-01 |
| LEAD SET WAM 10 WIRE BANANA AHA Full set of 10 wires, grouped into two sets of 5, with %combiners+ | 9293-046-50 |
| LEAD SET WAM 10 WIRE BANANA IEC Il set of 10 wires, grouped into two sets of 5, with %combiners+ | 9293-046-51 |
| REPLACEMENT LEAD SET WAM LIMBS BANANA AHA Indicated leads, no combiners | 9293-046-52 |
| REPLACEMENT LEAD SET WAM LIMBS BANANA IEC Indicated leads, no combiners | 9293-046-53 |
| REPLACEMENT LEAD SET WAM V1-V3 BANANA AHA Indicated leads, no combiners | 9293-046-54 |
| REPLACEMENT LEAD SET WAM C1-C3 BANANA IEC Indicated leads, no combiners | 9293-046-55 |
| REPLACEMENT LEAD SET WAM V4-V6 BANANA AHA Indicated leads, no combiners | 9293-046-56 |
| REPLACEMENT LEAD SET WAM C4-C6 BANANA IEC Indicated leads, no combiners | 9293-046-57 |
| LEAD SET WAM 10 WIRE CLIPS AHA Full set of 10 wires, grouped into two sets of 5, with %combiners+ | 9293-047-50 |
| LEAD SET WAM 10 WIRE CLIPS IEC Full set of 10 wires, grouped into two sets of 5, with %combiners+ | 9293-047-51 |
| REPLACEMENT LEAD SET WAM LIMBS CLIPS AHA Indicated leads, no combiners | 9293-047-52 |
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| REPLACEMENT LEAD SET WAM V4-V6 CLIPS AHA Indicated leads, no combiners | 9293-047-56 |
| REPLACEMENT LEAD SET WAM C4-C6 CLIPS IEC Indicated leads, no combiners | 9293-047-57 |
| WAM User Manual (XXX=language) | 9515-XXX-XX-XXX |
| WAM Short-Form Instruction Card (XXX=language) | 9503-XXX-XX-XXX |
| Case of 24 Monitoring Hookup Kits: <ul style="list-style-type: none"> 10 monitoring electrodes 1 abrasive pad 1 gauze wipe 1 razor 2 alcohol prep pads | 9294-009-51 |

Approved Battery Models

| Description | Manufacturer | Part Numbers |
|-------------------------|--------------|--------------|
| Alkaline, AA-type, 1.5V | Various | Various |
| Lithium, AA-type, 1.5V | Energizer | L91 |

NOTE: Replace cells with only those listed above. Use of other cells may present a risk of fire or explosion.

To order additional supplies, contact a Mortara Instrument customer service representative at:

Mortara Instrument, Inc.
 7865 N. 86th Street
 Milwaukee, WI 53224
 Tel: 1.888.MORTARA (667.8272)
 Fax: 414.354.4760
 Internet: <http://www.mortara.com>

Specifications

| Feature | Specifications |
|--------------------------|--|
| Instrument Type | 12-lead ECG digital transmitter cable |
| Input Channels | Continuous 12-lead signal acquisition and transmission |
| ECG Leads Transmitted | I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5 and V6 |
| Special Functions | Power On/Off, Lead impedance check, during hookup, lead fail, and battery notification |
| RF Protocol | 2400-2483 MHz interference immune proprietary frequency hopping scheme |
| Water Resistance | Electronics protected from water damage; meets EN 60529 rating IPX1 |
| Defibrillator Protection | Complies with AAMI standards and IEC 60601-2-25 |
| Function Keys | On/Off, 12-Lead ECG acquisition, Rhythm acquisition |
| Device Classification | Type CF (ECG), battery operated |
| Weight | 6.7 oz. (190 g) with battery |
| Dimensions | 4.45+x 4.25+x 1.1+(11.3 cm x 10.8 cm x 2.79 cm) |
| Battery | 1 AA alkaline, 24-hour typical life |

NOTE: Operating range performance is 3 meters or 10 feet with.