cometa	WAVE PLUS - USER MANUAL	COD. WPMEMG REV 02
02/11/2011		Pag. 1 di 41
DATA PRIMA EMISSIONE		1 ug. 1 ul +1

"WAVE PLUS" MULTICHANNEL ELECTROMYOGRAPH

USER MANUAL

Redaction:	SALES – M. DEL	LACORNA		
	GM – A. DELLA	CORNA		
Check:	GM – A. DELLACORNA			
Approval:	GM – A. DELLACORNA			
Data: 24/02/2012	Data: 24/02/2012 Revision: 01 Code: WPMENG		ENG	

Revision:

Revision:	Approval Date:	Changes Description:
01	24/02/2012	Revision post IMQ review
02	30/12/2013	Added new miniwave electrode

The system is classified according to 93/42/CEE regulation

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including such that may cause undesired operations.

Any change or modification not expressly approved by Cometa Srl for compliance could void the user's authority to operate the equipment.

WAVE PLUS - USER MANUAL

COD. WPMEMG REV 02

Pag. 2 di 41

Table of Contents

DATA PRIMA EMISSIONE

1. I	INTRODUCTION	3
	DESTINATION AND CLASSIFICATION	
2.1		
	WAVE PLUS SYSTEM COMPONENTS	
3.1 3.2		
3.3		
3.4		
3.5		
4. V	WAVE PLUS SYSTEM USE	12
4.1	Analog mode	12
	4.1.1 Supported external devices	
	4.1.2 Layout of cable connections	
4.2		
4	4.2.1 External trigger	
	4.2.1.1 Trig in	
	4.2.1.3 Strobe IO	
	4.2.1.4 How to use the Trigger port	18
	4.2.2 Supported external devices	
4.3		
_	4.3.1 Base unit LEDs:	
4.4	4.3.2 Electrode unit LED:	
4.4		
	4.5.1 LED indicator of the charging module	
	4.5.2 LED indicator of the electrodes	
4.6		
4.7	PIEZORESISTIVE SENSORS	25
5. S	SYSTEM MAINTENANCE	27
5.1	REPAIRABLE PARTS	27
5.2	REPLACEMENT OF ELECTRODE BATTERY - STANDARD ELECTRODE	27
5.3		
5.4		
5.5		
	5.5.1 General warnings 5.5.2 Warnings for battery disposal	
	5.5.2 Warnings for battery disposal5.5.3 Warnings for device disposal	
5.6	0)	
5.7		
5.8		
6. L	LABELS	35
6.1	Base Unit:	35
6.2		
6.3		
6.4		
6.5		
	TECHNICAL SPECIFICATIONS (WAVE PLUS 16 CH)	
7.1	Suitability	41

cometa	WAVE PLUS - USER MANUAL	COD. WPMEMG REV 02
02/11/2011 Data prima emissione		Pag. 3 di 41

1. Introduction

Wave Plus system is an innovative multi-channel wireless surface electromyographic system with accelerometers.

The leading specifications of this new system are:

- Wireless and low-power electrodes for a quick patient set-up and for movements performed in total freedom:
- Acquisition of SEMG signal simultaneously with the accelerometer signal
- Digital transmission via RF;
- Receiver device equipped with analog and digital (USB port) data output for all channels;
- Developed with high integration "SMD" technology;
- Compatible with ISM standard low power devices (ETSI, FCC, JAPAN);
- Designed to be integrated with lab equipment for multipurpose acquisition systems.

2. DESTINATION AND CLASSIFICATION

Wave Plus is a system for the data collection of biologic signals; the main system feature is the absence of cables between the transmitters on the patient and the data receiver/recording unit.

This allows the acquisition of EMG and accelerometer signal while patient is free to move.

This feature is very useful for clinical and scientific applications, for example in pathologic gait analysis or in rehabilitation.

Low invasivity and high safety allow to use Wave Plus system for patients who tolerate the adhesive electrodes and conductive gel for SEMG detection through medical electrodes.

Wave Plus system application areas are:

- Neurology;
- Physiatry and rehabilitation;
- Orthopedy;
- Ergonomics;
- Sport medicine;
- Veterinary.



ERROR: ioerror
OFFENDING COMMAND: image

STACK: