



ELECTRASTIM AXIS EM200

INSTRUCTIONS

(FIRMWARE VERSION 1.3)

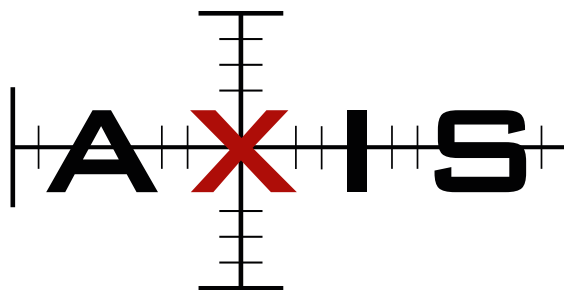
READ THESE INSTRUCTIONS BEFORE USE



Warning - Do Not Use...

- If you have any heart problems or arrhythmia
- If you wear medical devices (e.g. a pacemaker) or have metallic surgical implants
- If you are pregnant
- If you suffer from epilepsy
- If pain exists
- Above the waist area
- Over inflamed, swollen or damaged skin
- If you suffer from any penile, vaginal or anal disorders

Page	Contents
2	What is AXIS?
	Pack Contents
3	How to Operate AXIS
	Charging The Internal Battery
	Switching On
	Intensity Control
4	Attaching Accessories/Electrodes
	Using the Included ElectraPads
	Navigating the Operating Modes
	Stimulation Options
5	Wave Mode
	Pulse Mode
6	Flick Mode
7	Tilt Mode
	Proximity Mode
	Microphone Mode
8	Line-In Mode
	Configure Menu
11	Firmware Update
	Cleaning
12	Warranty
	Safety
	Liability
13	Specification



What Is AXIS?

AXIS is a high-specification dual output electro sex stimulator and is the first in the world to incorporate multiple input sensors for a truly customisable e-stim experience. Control AXIS with the tactile buttons, a flick of your wrist, a wave of your hand, the sound of your voice or even the proximity of your partner's body. AXIS gives you the freedom to control your electro play your way. The only limit is your imagination!

The stimulator has two independently controllable outputs allowing the stimulation intensity of accessories to be fine tuned as required. The stimulator connects to body attached or inserted electrodes by means of highly flexible detachable cables. Power is provided by an internal lithium-ion cell which is charged via a micro USB cable.

Pack Contents



Diagram 1

Your ElectraStim AXIS will have been supplied with the following items...

- A - Zipped protective storage case
- B - ElectraStim AXIS stimulator
- C - Detachable belt clip
- D - Output cable (x2)
- E - Micro USB charging/data cable

- F - Stereo line-in audio cable
- G - Self-adhesive ElectroPads (EM2118)
- H - Firmware update/reset pin
- I - Quick Start Guide
- J - Free 3 year warranty upgrade

How to Operate AXIS

Before attempting to apply stimulation to any body parts it is essential that you understand how AXIS works. Refer to diagrams 1 (above) and 2 (below) as you read this instruction manual.

1. Power On/Off
2. Option Select
3. Output 1 Intensity Controls
4. Optical Sensor
5. OLED Graphics Display
6. Output 1 (CH1) Connection Socket
7. Output 2 (CH2) Connection Socket
8. Tactile Overlay
9. Mode Select
10. Output 2 Intensity Controls
11. Microphone
12. Update/Reset Port
13. Status LEDs
14. Micro USB Charging Socket
15. Audio Line-in Socket

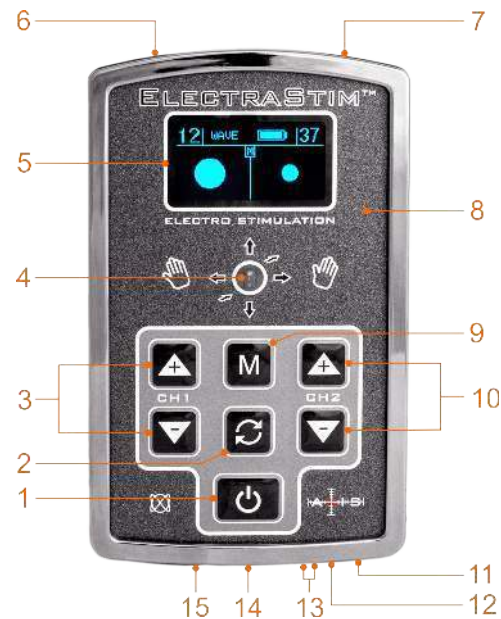
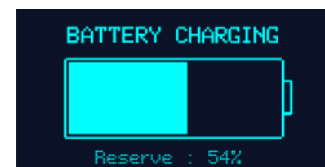


Diagram 2

Charging the Internal Battery

Before using AXIS it is recommended that you charge the internal lithium battery to at least 90% capacity to avoid it running flat during play. To do this simply plug the micro USB cable (E) into the socket on the bottom edge of AXIS (14) and connect the other end to a USB socket on either a computer or USB outlet. Be careful when connecting and never apply excessive force to avoid damaging the charging socket.

Once connected the charging progress screen will appear on the display. If the battery starts at 0% it will take less than an hour to get to 80% capacity. To get to 100% will take up to 3 hours. Pressing the CH2 -/+ buttons will allow you to scroll through other key battery statistics. **Note** - During charging AXIS will not function as a stimulator so ensure that your AXIS is well charged prior to use.



Switching On

To switch on your AXIS simply press the power button (1). After a second or two the AXIS logo will appear whilst the system is booting up and then you will be taken to the user Mode and Option that was active when last switched off. If powering for the very first time you will see the “Wave” mode screen. Wave Mode has several different selectable patterns but the default pattern is “Continuous”. This enables you to get a feel of things before getting a little more adventurous. The letter “M” displayed in the center of the screen indicates that the input control mode is “Manual” as opposed to Gesture control.



Intensity Control

The default output intensity is 0 (zero). To apply intensity to either output 1 or output 2 simply press the associated “+” button (3/10) to increase the level by one each time. If you wish to increase the intensity several levels then you can press and hold the required

intensity button for one second and it will automatically increment at a rate of 4 levels per second. Likewise you can decrease the intensity by pressing the associated “-“ button. The press and hold feature will also work when reducing intensity and will decrease at a rate of 16 levels per second. The intensity has 100 levels ranging from 0 to 99.

Attaching Accessories/Electrodes

Always attach/insert accessories before applying stimulation to ensure a fully controlled experience. When removing accessories either reduce intensity levels to 0 or switch AXIS off (1). All ElectraStim accessories come with their own instructions which should be followed carefully.

Using the Included ElectraPads

Four uni-polar ElectraPads (G) are included in the EM200 pack. These self-adhesive electrodes can be placed anywhere below the waist and are the ideal way to experience erotic electro stimulation for the first time. You will need to connect 2 ElectraPads and apply them both to your body to complete the circuit. Insert one of the 2mm pins on the connecting wire (D) into an ElectraPad and then repeat with a second pad. Peel off the backing and apply the self-adhesive side to your body anywhere below the waist. For the best conductivity, use the pads on a hairless area. Place the pads along the penis or on the labia majora to maximise erotic sensations. Each ElectraPad can be used up to 6 times by the same person by replacing the clear plastic backing after use. Connect the cable (D) to Output 1 (6) and you are ready to go. Output 2 can be left un-used or can be used with the other two pads if desired.

Navigating the Operating Modes

AXIS has numerous different operating modes which are selected by pressing the “Mode” button (9). Pressing the “Mode” button will bring up the menu screen and advance to the next mode. If no subsequent presses are made within a 3 second time period the new user screen will appear showing the selected mode. To advance through several of the modes simply keep pressing the “Mode” button until you get to the one you wish to use. The progress bar at the top of the menu screen will show how far through the mode options you have navigated.



Stimulation Options

Each of the operating modes has a number of available options that can be selected by pressing the “Option” button (2). The first press of the “option” button will bring up the current mode menu screen such you can see which option is selected. Subsequent presses will highlight the available options in sequence until you arrive at the one you wish to use. Simply wait 3 seconds and that option will be selected and the screen will revert to the user screen.



The selectable Modes and their basic descriptions are as follows...

Mode Name	No. of Options	Description
Wave	11	Built-in e-stim patterns that have a general wave format
Pulse	12	Built-in e-stim patterns that have a general pulse format
Flick	5	Patented motion feature for wrist controlled electro sympathetic play
Tilt	5	Stimulation strength varies with the degrees of tilt along the Y AXIS

Mode Name	No. of Options	Description
Proximity	5	Stimulation strength varies in relation to the proximity of objects
Microphone	5	Stimulation strength varies in relation to external sounds/music
Line-In	4	Stimulation strength varies in relation to direct feed sounds/music
Configure	8	Customise settings, enable gesture control, enable beeper, tech info.

Wave Mode

AXIS comes with a wide selection of pre-defined or built-in stimulation patterns. When in Wave Mode there are 11 selectable options/patterns that have a general wave or massage type format. For some of the patterns the outputs will be synchronised or in harmony with one another, whereas for others the outputs will alternate (180 degrees out of phase). The selectable Wave options are as follows...



#	Option Name	Description
1	Continuous	Continuous output to get the feel of things
2	Sync. Fixed	Slow waves where output 1 and 2 are in sync.
3	Sync. Variable	Vary the speed of waves by Tilting. Outputs are in sync.
4	Alternating Fixed	Slow waves where output 1 and 2 alternate
5	Alternating Variable	Vary the speed of waves by Tilting. Outputs are alternating.
6	Escalate Sync.	Synchronised waves that start slow, get increasingly faster then repeat
7	Escalate Alt.	Alternating waves that start slow, get increasingly faster then repeat
8	Builder Sync.	Synchronised waves that grow in number as they get faster
9	Builder Alt.	Alternating waves that grow in number as they get faster
10	Triple Sync.	Synchronised waves, 3 slow, 3 medium, 3 fast
11	Triple Alt.	Alternating waves, 3 slow, 3 medium, 3 fast

Pulse Mode

AXIS also has a selection of built-in Pulse patterns. When in Pulse Mode there are 12 selectable options/patterns that have a pulsing or on/off type format. For some of the patterns the outputs will be synchronised or in harmony with one another, whereas for others the outputs will alternate (180 degrees out of phase).



The selectable Pulse options are as follows...

#	Option Name	Description
1	Sync. Fixed	Slow pulses where output 1 and 2 are in sync.
2	Sync. Variable	Vary the speed of pulses by Tilting. Outputs are in sync.
3	Alternating Fixed	Slow pulses where output 1 and 2 alternate
4	Alternating Variable	Vary the speed of pulses by Tilting. Outputs are alternating.
5	Escalate Sync.	Sync. pulses that start slow, get increasingly faster then slow again
6	Escalate Alt.	Alternating pulses that start slow, get increasingly faster then slow again
7	Penetrate Sync.	Synchronised pulses with increasing “on” time
8	Penetrate Alt.	Alternating pulses with increasing “on” time
9	Cascade Sync.	Sync. pulses that start slow, get increasingly faster then repeat
10	Cascade Alt.	Alternating pulses that start slow, get increasingly faster then repeat
11	Spank Sync.	Synchronised 1 pulse and rest, 2 pulses and rest, 3 pulses and rest
12	Spank Alt.	Alternating 1 pulse and rest, 2 pulses and rest, 3 pulses and rest

Flick Mode

As with our ElectraStim “Flick” stimulators (EM60/EM80), AXIS is also equipped with our patented motion feature. Simply make forward motions with the stimulator and you will see the display bars respond in sympathy with the aggression of the motions and the stimulation outputs will vary at the same time. It is important to note that no stimulation will be felt until motions are applied to the AXIS unit so set the intensity to a level that you (or your sub) are comfortable with. If you then “Flick” AXIS such that the display bars go to maximum, the output intensity will only reach your set level.



Use this mode for electro spanking your partner or to add your own theme to solo play.

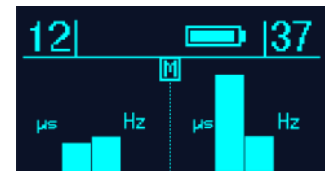
The selectable Flick options are as follows...

#	Option Name	Description
1	CH1 + CH2	CH1 and CH2 increase in stimulation strength
2	CH1 Only	CH1 increases in stimulation strength, CH2 has static stimulation
3	CH2 Only	CH2 increases in stimulation strength, CH1 has static stimulation
4	CH1 + CH2 Inverted	CH1 increases in stimulation strength, CH2 decreases
5	CH1 Inverted + CH2	CH2 increases in stimulation strength, CH1 decreases

Interactive Control Options (Flick/Tilt/Prox/Mic)

Tilt Mode

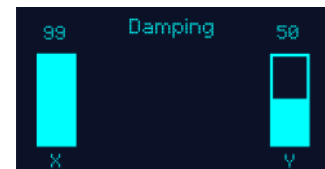
AXIS utilises a triple-axis accelerometer which can be used to measure the angles at which the stimulator is held. Tilting the stimulator downwards and upwards (Y-plane) will adjust the stimulation pulse width between 0us when fully tilted downwards to 160us when fully upwards. Tilting Axis from left to right (X-plane) will adjust the stimulation pulse frequency from 20Hz to 200Hz respectively. Tilt works over a range of +/- 45 degrees in each plane.



Use this mode to tailor the stimulation parameters to your own liking. You can literally “play” Axis like a musical instrument by tilting it in the X and Y planes to create any frequency and pulse width patterns. Alternatively you can prop Axis at a fixed position if you want to stay tuned into a particular setting. You can attach AXIS to any part of your body that is easy to change the angle to provide a highly effective means of stimulation control.



In addition to the 5 Tilt options shown in the table above (*Interactive Control Options*) there is also an option 6 which displays the live dynamic accelerometer angles and associated stimulation parameters, and an option 7 which allows you to change the “Damping” or response of the X and Y tilt planes for extra play control.



Proximity Mode

AXIS also incorporates an advanced proximity sensor enabling interactive control without actually touching the stimulator. Move your hand or any body part towards the sensor on the AXIS control facia and watch the display bars respond in proportion to the distance. The active sensing range is approximately 0cm to 10cm (0” to 4”) and only detect objects that are directly in front of the sensor (4). There are 256 levels of detection which allows very smooth proportional control of the output stimulation signal.



Use this mode to add your own theme to play or to interact with a partner. When playing solo position the stimulator such that your hand or arm stroking movements are picked up by the proximity sensor for synchronised play. If you want large variations in sensation with every passing stroke you will need to get up close to the sensor, for milder tingles of pleasure keep your strokes a little further away.

If playing with a partner you can attach AXIS using the removable belt clip (C) such that it is forward facing. As you move towards and away from your partner the stimulation strength will increase/decrease depending on the chosen option.

The selectable Proximity options are shown in the table above (*Interactive Control Options*).

Microphone Mode

As with the ElectraStim SensaVox (EM140), AXIS is also equipped with audio input options. Due to the integrated high fidelity solid state microphone your voice has never been more powerful. The sensitivity is so good that we have provided 10 levels to choose from. To get the optimum sensitivity from the microphone, point the lower edge of AXIS towards the audio source as this is where the microphone and sound ports are located (11). To adjust the microphone sensitivity you will need to enter the Configure Menu. See the Configure Menu section to find out how this is done.



Use this mode to control the strength of stimulation in sympathy with external sounds. Whether talking softly to your partner or shouting loudly at your sub, you can tailor the strength of stimulation with every word, whisper or musical beat.

The selectable Microphone options are shown in the table above (*Interactive Control Options*).

Line-In Mode

AXIS utilises digital signal processing (DSP) techniques to provide the best in stereo-stim functionality. Feeding sounds in directly using the supplied 3.5mm audio cable (F) via the 3.5mm audio socket (15) means all external sounds are ignored. Feed in your favorite tunes or use specialised e-stim stereo files for endless possibilities of dynamic play. The stereo nature of the input means that left and right audio tracks directly control the stimulation strength of the left (CH1) and right (CH2) stimulation outputs. If you are familiar with digital audio mixing software then you will be able to create your own sound files to suit your play preferences. However, there are plenty of stimulation sound files available on the internet that most authors are happy to share. There is a sample collection of AXIS stereo-stim audio files that you are free to play or download and try on the ElectraStim website... <https://www.electrastim.com/axis>



Use this mode to take a stereo-stim journey as slow and gentle or as fast and hard as you like. Patterns can be created to suit every taste and can last from a few seconds to a few hours. If you don't have the skills or time to make your own files then search and download license free ones from trusted sources. Note that some files will work better than others as it will depend on the stimulator make and model that the files were originally intended for. You can also use mono (non-stereo) audio files which are fine if you are only using one accessory or are happy to have the same stimulation pattern on two accessories.

The selectable Line-In options are shown below...

#	Option Name	Description
1	Stereo	CH1 controlled by left audio, CH2 controlled by right audio
2	Stereo reversed	CH1 controlled by right audio, CH2 controlled by left audio
3	Dual Mono Left	CH1 and CH2 both controlled by left audio
4	Dual Mono Right	CH1 and CH2 both controlled by right audio

Configure Menu

The Configure menu is used to change the way that your AXIS works or to view battery/technical info. To scroll through the below options simply press the Option button (2) until you get to the feature that you wish to change or view, then pause for 3 seconds to invoke the feature. The selectable options are as follows...



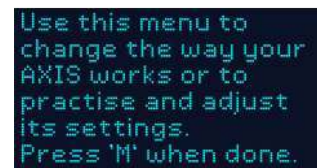
Configure Option Name	Description
> About Config.	This will show a screen with a brief description of how to use this menu
1. Use Button Input	The tactile buttons are used to control and navigate AXIS (default)

Configure Option Name	Description
2. Use Gesture Input	The Gesture Sensor is used to control and navigate AXIS
3. Beeper ON/OFF	Enable/Disable the audible acknowledge beeper (default = OFF)
4. Nerd Mode ON/OFF	Display some technical stimulation info (default = OFF)
5. Zero Override ON/OFF	Intensity auto-zero override when changing Modes (advanced)
6. Practice Gestures	Ensure that your Gestures are compatible before using this feature
7. Setup Microphone	Adjust the microphone sensitivity and offset level
8. Setup Line-in	Adjust the Line-in audio offset levels
9. View Tech Info.	This screen will show you battery information, serial no. etc.
10. View Usage Info	This shows you your usage information

To exit the Configure menu simply press the “Mode” button which will take you back to the Wave pattern mode etc.

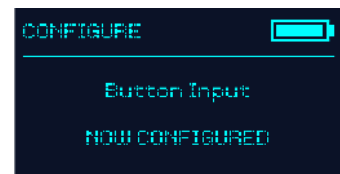
> About Config

This simply shows a text screen that explains what this Menu is all about. There is nothing more to do here other than read the text and then press the Option button again to go to the first user configuration option.



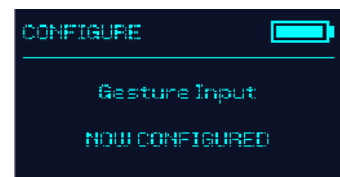
1. Use Button Input

This option will set the user control to the tactile buttons on the AXIS control panel. This only needs to be changed after the Gesture feature has been used and you wish to return to the tactile Button Input control. When this option is active the letter “M” will be displayed in the center of the normal user screen to indicate the control mode is “Manual”.



2. Use Gesture Input

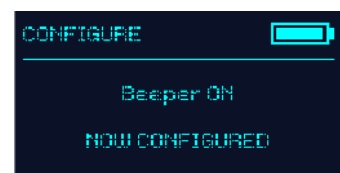
Setting this option allows you to control AXIS without physically touching it. This can be useful if your hands get wet with lubricant or you suffer with a lack of dexterity. As a play option you can position the stimulator such that when a body part passes by, the intensity automatically increases. When using Gestures to control AXIS the buttons will still work should you wish to manually intervene. When this option is active the letter “G” will be displayed in the center of the normal user screen to indicate the control mode is set to “Gestures”.



Before using Gesture Input we strongly recommend that you get familiar with this first by using the “Practice Gestures” feature as described below.

3. Beeper ON/OFF

Selecting this feature will enable/disable an audible confirmation beeper. When enabled you will hear a beep every time a button is pressed or a Gesture is made. The tone of the beeps will vary



in accordance with the setting being changed which can be useful if you are visually impaired but it also adds good feedback when not looking at the display. AXIS will also make an audible sound when powering on and off. This feature is remembered so the beeper feature will always be set as it was when last switched off. The default setting is off so you will need to enable this feature to use it.

Note that the audible beeper is disabled when in Microphone Mode.

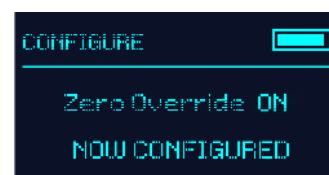
4. Nerd Mode ON/OFF

If you would like to see a little more information displayed when using the Wave, Pulse or Tilt Modes then enable this feature to see the pulse frequency (Hz), cycle times (in either seconds or milliseconds) and degrees of tilt. You will also notice when viewing the normal user screen that the vertical centre line has a thicker portion at the bottom. This shows the current being consumed by the battery and will vary in accordance with the intensity levels being used.



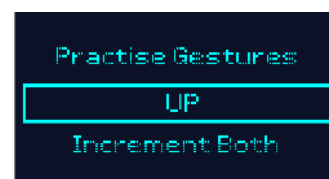
5. Zero Override ON/OFF

When changing Modes you can choose whether the intensity levels reset to zero or to leave them unchanged. To leave the levels unchanged between modes (Zero Override ON) is only recommended for more experienced users as stimulation levels will fluctuate as you navigate the Modes. Stimulation is paused while in the Configuration Menu and is resumed again as soon as you exit by pressing the Mode button.



6. Practice Gestures

Before using the Gesture Input feature it is highly recommended that you practice the gestures first such that you are familiar with the speed and distance from the sensor (4) your hand needs to be. There is a gesture to represent all of the main control functions but it works slightly differently than the Button Input control. As you practice each of the 6 gestures as shown below the display will show you what the gesture action will control when you actually come to use this feature. If the gesture motion is not recognised the display will flash and show a "!". It is a good idea to enable the beeper when practicing gestures as it gives useful feedback. If you need help in understanding how some of the gestures work then visit <https://www.electrastim.com/axis> to see how it's done.



The available gestures and their functions are as follows...

#	Gesture Action	Description
1	Swipe Left	CH1 intensity increase
2	Swipe Right	CH2 intensity increase
3	Swipe Up	CH1 and CH2 intensity increase
4	Swipe Down	CH1 and CH2 intensity decrease
5	Near	Go to the next Mode
6	Away	Show and then go to the next Program/Option

Your hand should ideally be around 5cm (2") from the sensor and the first four gesture actions are good place to start as they are fairly straight forward. The Near and Away

actions will take a little more practice. Note that the Away action replicates a press of the Option button and therefore the first gesture will bring up the Options menu of the current mode and the second gesture will actually change it, so the gesture needs to be done twice in succession to change the selected Option.

7. Setup Microphone

The microphone has 10 different sensitivity levels to match the volume of the audible input to the level of stimulation strength. The default factory setting is level 5 but this can be increased to 10 or reduced to 1 by pressing the CH1+/- buttons. As you adjust the sensitivity you can speak or play music and see the detected Microphone Level in the centre column.



If there is a detected microphone level when there is no sound, then you need to adjust the amplifier offset until the centre column is at zero as shown. Use the CH2+/- buttons to do this. Avoid using high mic sensitivity levels at high stimulation intensity levels as the internal transformer hum will be detected by the microphone which is not desirable.

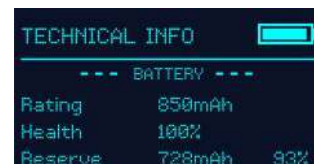
8. Setup Line-in

On rare occasions it is possible to see a small level of Line-in audio input even though no sound is actually being applied. This is known as an input offset error and it can be removed using this feature. Simply press the CH1+/- buttons to trim off any left channel offset and CH2+/- buttons to trim off any right channel offsets.



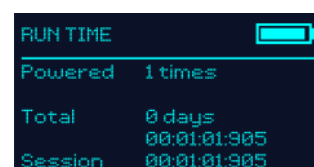
9. View Tech. Info

If you want to check your actual battery percentage reserve or view other technical information such as the battery voltage or firmware version then this is the place to see it. Use the CH2+/- buttons to scroll up/down.



10. View Usage Info

This screen shows your usage statistics including the number of times you have powered AXIS up, total usage in days/hours/minutes/seconds/milliseconds and your current e-stimming session time. When you first get your new AXIS all of this data will normally be at zero or just have a few seconds of usage from a final factory inspection.



Firmware Updates

AXIS is equipped with a 32-bit ARM Cortex micro processor that can be updated by a computer using the supplied USB cable (E). We will release firmware updates to improve performance, add new features and fix any minor issues. To ensure you are aware of updates you should make sure you are subscribed to our mailing list. Instructions on how to update your AXIS firmware can be found here... <https://www.electrastim.com/axis>

Cleaning

Your ElectraStim AXIS EM200 stimulator can be cleaned using a lightly-dampened cloth. Do not immerse the unit in water and keep moisture away from all sockets and ports. We recommend cleaning all ElectraStim accessories with our special e-stim toy cleaner (EM3116).

Warranty

ElectraStim AXIS EM200 is guaranteed for 1 year from date of purchase against defects arising from faulty workmanship or materials. This excludes moisture ingress, misuse and wear and tear of cables. NOTE: There are no user serviceable parts inside and any attempt to open the enclosure will invalidate the warranty. Tamper evident precautions have been made. Attempts to “hack” the installed firmware or EEPROM data will lock AXIS from further use and may permanently damage the electronics and is not covered by the warranty.

Safety

AXIS has been designed with safety and the environment in mind...



Conforms to European Safety Standard BS EN 60601-1:2006+A12:2014



Conforms to UKCA applicable statutory requirements



Type BF Isolated Safety Outputs



Risk of Hazardous Substances (RoHS)

No hazardous material as laid out in the RoHS Directive have been used in the manufacture of this product



Waste of Electrical and Electronic Equipment (WEEE)

This equipment should be taken to a recycling centre at the end of its useful life and not discarded with normal household waste

Liability

Cyrex Limited/Cyrex Inc. will not be held responsible or liable for any injury, harm or accident resulting from the use of any of its products how so ever caused. Use of Cyrex products implies that you have read the instructions and accept these terms. No medical claims are expressed or implied.

Specification

Battery Voltage	3.7V nominal
Battery Capacity	850mAh
Battery Type	Lithium rechargeable
Charging Current	400mA (max.)
Charging Voltage	5V USB
Charging Time	1 hour to 80%, 3 hours max. to 100%
Output Current	0-125mA peak instantaneous/channel into 560 ohm load
Intensity Levels	100 (0-99) per channel
Intensity Auto + Rate	4 levels per second
Intensity Auto - Rate	16 levels per second
Output Voltage	0-70V peak into 560 ohm load
Output Frequency	20Hz - 200Hz
Output Pulse Width	0us - 180us
Output Type	Asymmetrical bi-phasic, zero net DC, interpolated
Motion Sensor Range	0-10cm (0-4")
Accelerometer Spec.	Triple axis, 12-bit, +- 8g
Microphone Sensitivity	10 selectable levels with input offset trim feature
Line-In Sensitivity	0-280mVpp with input offset trim feature
Beeper Frequency	2.73KHz nominal
Microprocessor	ARM Cortex 32-bit, 48MHz
Weight	116g (4.1oz)
Dimensions	25mm x 68mm 118mm (1" x 2.7" x 4.7")

Patent Pending 1816187.7
Designed and Manufactured by Cyrex Ltd.
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<https://www.electrastim.com>
info@electrastim.com

Firmware version 1.3
Issue 1
24th September 2021
All errors accepted

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