World First!

Operate an iPad or iPhone directly with any mouse or assistive mouse including trackball, joystick, head mouse, thumb mouse and more.

Setup and User Guide

www.inclusive.co.uk/amaneo-bti
Introduction

The Assistive Mouse Adapter AMAneo BTi allows people who cannot operate a touch screen to operate an iPad and iPhone with any assistive or ergonomic mouse. A touch pointer can be moved like a mouse pointer within the touch screen. For people with a hand tremor, the operation of an iPad and iPhone is easier, also people who may have previously not been able to operate an iPad or iPhone at all, are now able to.

AMAneo BTi connects assistive and ergonomic mice via Bluetooth with iPad or iPhone and electronically filters the shaking of the hand or head if necessary, so that the touch pointer on the display still moves smoothly. The intensity of the tremor filter can be adjusted.

Additionally, an adjustable click delay (the touch pointer is held at the current position corresponding to the click) and a dwell click function can be activated.

Essential characteristics

- Bluetooth interface for iPad and iPhone.
- USB port for assistive / ergonomic mouse.
- Integrated battery for up to 20 hours of operation.
- Adjustable tremor filter.
- Adjustable click delay (button delay).
- Adjustable dwell click (click timer).
- 2 connections for external switches (left / right mouse button).
(1) USB micro charging port.
(2) Recessed reset button.
(3) 10-stage bar graph display.
(4) Minus key (for setting: decrease value).
(5) Plus key (for setting: increase value, check battery charge level).
(6) Status LED.
(7) Selection key (to select settings).
(8) Switch port for Touch function (corresponds to left mouse button).
(9) USB port for assistive or ergonomic USB mouse.
(10) Switch port for AssistiveTouch menu (corresponds to right mouse button).
Fully charge the AMAneo BTi before use. Once the battery is fully charged the AMAneo BTi can last for up to 20 hours of operation. The operating time depends on the power consumption of the connected mouse and can vary in individual circumstances.

To charge the battery: connect the supplied USB cable to the small USB micro-plug with the connector (1).

Connect the other USB plug to the power supply of your iPad or iPhone.

When the battery is empty, the charging time to full is about 3.5 hours.

To check the battery charge status, press the plus key (5). On the bar graph display (3) the charge status is then displayed as a percentage (one bar corresponds to 10%).

When the battery is low, there is an acoustic warning signal and the charge status is briefly displayed.

When the battery is almost empty the AMAneo BTi is automatically switched off and must be recharged.
Setting up the Bluetooth connection

When the status LED (6) is off: switch on AMAneo BTi by holding down the selection key (7) for 4 seconds until a signal is heard and the bar graph display (3) lights up completely.

Connect AMAneo BTi to your iPad or iPhone: in the settings of the iPad or iPhone, switch on Bluetooth and select AMAneo BTi at the bottom among “other devices”. then AMAneo BTi connects to your iPad or iPhone. The LED (6) now lights up permanently.

The USB port (9) is for connecting any assistive or ergonomic USB mouse. These include any standard or alternative mouse such as those that are head or mouth-controlled and any USB rollerball or joystick.

Even wireless mice can be used - just plug in the USB dongle. Only Bluetooth mice cannot be used directly. For this purpose, a special Bluetooth dongle is available as an accessory.
Once connected and a mouse is plugged into AMAneo BTi, the touch pointer appears on the iOS device. See AssistiveTouch for more information.

You do not need an App for the AMAneo BTi. All functions are immediately available when connected to the iPad or iPhone.

Touch Pointer and AssistiveTouch Functions

When connecting AMAneo BTi to the iOS device, AssistiveTouch operation is automatically activated and a moving touch pointer is displayed. This touch pointer is moved like a mouse pointer.
All hardware switches or other system features of the iOS device, as well as gestures, can be used directly via the AssistiveTouch menu.

With a click of the right mouse button or the external button on the “Menu” connection (10), the AssistiveTouch menu opens. With another click it is closed again.

Simply move the touch pointer within the AssistiveTouch menu and trigger corresponding actions by clicking on it.

If no right mouse button can be used, the AssistiveTouch menu on the iOS device is under; Settings > General > Accessibility > AssistiveTouch

This can also be switched on permanently and clicked directly with the touch pointer. In these settings, the basic speed of the touch pointer and the transparency of the AssistiveTouch menu can be set.
There are 3 buttons on top of the housing. You can switch between the various setting modes (as described below) with the selection key (7), the plus key (5) and the minus key (4) are used to modify the respective adjustment option.

Status LED (6) if the green LED flashes/lights up, the AMAneo BTi operates normally (working mode).

Tremor (anti-tremor filter)

Press selection key (7) briefly once (shorter than 2 seconds) the LED (6) changes to blue.

Now you can set the tremor filter with the plus key (5) and minus key (4) from light to strong filtering, as is shown on the green bar graph (6) in 10 stages.

No bars in the bar graph means no filtering, 10 LEDs in the bar graph means the strongest filtering effect. To return to working mode, press the selection key (7) 3 more times until the LED (6) flashes/lights up green again.

Dwell click (click timer)

Press selection key (7) 3 times (shorter than 2 seconds) the LED (6) changes to yellow. Now you can adjust dwell click by pressing the plus key (5) or minus key (4).

No bars on the bar graph means no dwell click. The dwell click function releases the left mouse button automatically, if the mouse remains or is held for a certain time on the same point. To return to working mode, press the selection key (7) ‘once more’ until the LED (6) flashes/lights green again.

The range in which you can move to trigger a dwell click can be set with the click delay function. See the Click delay section for more information.
**Click delay (button delay)**

Press the selection key (7) briefly two times (shorter than 2 seconds) and the LED (6) changes to red. Now you can adjust the delay of the mouse buttons by pressing plus key (5) or minus key (4).

The mouse buttons react only after a certain time according to the display in the green bar graph (3). No bars in the bar graph means no delay.

To return to working mode, press the selection key (7) 2 more times until the LED (6) flashes/lights green again. If you want to use the click delay for the mouse buttons, make sure that the auto-click function is set to zero (no green bars in the bar graph (3)).

If the dwell click function is activated, i.e. is not at zero, the click delay has another function. In that case the tolerance for the dwell click function is set with the click delay (i.e. the range in which one can move to trigger a dwell click). For a good function usually 2 (2 of 10 stages) suffices.

**Function off**

Press the selection key (7) longer than 2 seconds (shorter than 4 seconds) and the LED (6) flashes white and all filters and delays are switched off (normal mouse mode).

In order to restart the functions, press the selection key again for longer than 2 seconds until the LED (6) flashes/lights green again.

If you press the selection key (7) for longer than 4 seconds, AMAneo BTi is completely switched off.

In order to switch the device on again, the selection key (7) must be pressed again until the bar graph display (3) lights up completely.

**Tip:** All of the controls are numbered on the AMAneo BTi image on page 3.
**Update firmware**

The internal program (firmware) of AMAneo BTi can be updated for future improvements. The update should only be done by technically experienced people!

Firmware updates will be made available as a file on the website [www.csslabs.de](http://www.csslabs.de) in the download area, if necessary.

To update firmware download the file from the download area of the CSS website. Copy the file to a USB stick into the main directory.

Plug the USB stick into the USB port (9) of AMAneo BTi. Press the reset button (2) on the rear side of the housing (press with a paper clip into the small hole) and the minus key (4) at the same time. The update starts and lasts as long as the LED (6) flashes red.

Please do not remove the USB stick during the process.

If the LED (6) flashes green again, the update is finished. Disconnect the USB stick again. AMAneo BTi is now ready for use.

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**Technical Specification**

- UK power supply.
- Integrated Lipo battery, 1250 mAh, operating time up to 20 hours.
- 2x switch inputs (3.5 mm - 1/4 inch jack plug).
- Micro USB port (for battery charging).
- USB A port for connection of assistive/ergonomic mouse, max. 250 mA.
- Dimensions: 74mm x 74mm x 26mm.
- Does not require an App, you can use it instantly.
- Prerequisites: iPhone 5s or later, iPad 5 or later, iPad mini 2 or later. We recommend the latest available iOS.
Technical Support

Please contact our support team on +44(0)1457 819790 or email: support@inclusive.co.uk

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Resources

View our demonstration video of how to use the AMAneo BTi HERE.