

# Guide for Clinicians

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TASKA HandGen1, Gen2 and CX  
with Coapt Gen1 or Gen2 System

V2.1

 **TASKA™** | **COAPT**

# 1. Welcome

## Before you get started

TASKA works seamlessly with Coapt pattern recognition systems (Coapt system). Please read the following to ensure a successful startup:

### TASKA HandGen2

- Bluetooth™ must be always off for correct operation of the Coapt system.
- Electrode settings are automatically configured on each power up. There is no need to modify electrode settings using MyTASKA.
- Low profile TASKA HandGen2 come with a digital connection plug, labelled COMMS only. No additional adapters are required.

### TASKA CX™

- Bluetooth does not need to be switched off when using the Coapt system.
- Electrode settings are not configured at startup. The TASKA CX should be left in factory default settings for the best operation of the system.
- An adapter is required for all CX hands to operate multi-grasp pattern recognition. Contact Coapt if using a TASKA CX on an existing Coapt system.

### All TASKA Hands

- The OK (Custom 1) grip is assigned to the Pincer Grip in the Coapt system, and must not be modified.
- Do not configure Grip Triggers or Idle Grips when using TASKA software. These will cause unpredictable operations with the Coapt system.
- A 6-band Coaxial Plug is required when using the Coapt system with all TASKA hands, except Low Profile TASKA HandGen2.

## 2. Review

### Clinician guides

All connection guides for TASKA + Coapt systems are available at:

[Coaptengineering.com/clinicians](https://Coaptengineering.com/clinicians)

This includes guides for:

- TASKA + Coapt
- TASKA + Wrist Rotator + Coapt
- TASKA + Wrist Rotator + Elbow systems + Coapt

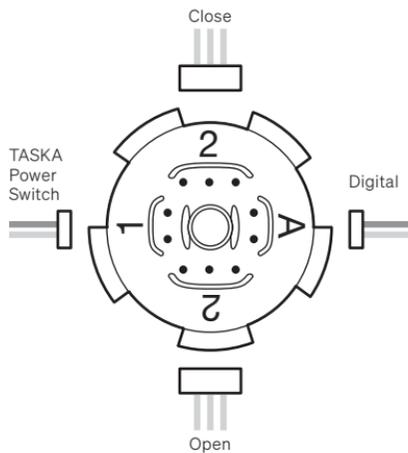
Refer to the specific product guides for operation of elbow and wrist systems with the Coapt system.

**The TASKA CX requires a digital adapter between the Coapt system and the hand to operate.**

Scan the QR code located on the Coapt adaptor for further information.

**!** Take care to connect the Coapt digital line (A) and the TASKA Power Switch cable (1) into the correct plugs to avoid damaging the hand.

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Example of connection guide for Coapt H2 system using TASKA 6-band Coaxial Plug.

## 3. Configure

### Coapt ControlCompanion

Use the ControlCompanion software to adjust the following:

- Validate correct wiring connections and cable polarity.
- Manual test to confirm proper connections and operation.
- Confirm electrode-to-skin contact.
- Select and calibrate grip patterns and other prosthesis motions.
- Firmware and software updates.

### MyTASKA

MyTASKA is only required to adjust the following settings:

- Adjust power and battery setting.
- EMG/Lock button - Grip Triggers or All Sensors.
- Run a diagnostic test.
- Modifying custom grips.
- Assigning grips to the Hand/Cycle button.

**!** Do not add any grip triggers or turn on the idle grip function. Doing so may cause unpredictable behaviour.

## 4. Troubleshooting

PROBLEM	WHAT TO DO
<p>ControlCompanion displays the hand as an o/c device.</p> <p>or</p> <p>The hand will not change grips.</p>	<p>This might mean:</p> <ol style="list-style-type: none"> <li>1. Bluetooth is on. Turn Bluetooth off and power cycle the prosthesis (TASKA HandGen2 only).</li> <li>2. The EMG/Lock button is pausing grip changes. Power cycle the prosthesis to reset.</li> <li>3. The digital line is not connected inside the prosthesis. Ensure the digital line is securely connected and a 6-band Coaxial Plug is being used (if the hand is a quick disconnect model).</li> <li>4. Check the correct Coapt system is being used, including if the adapter is required (TASKA CX only).</li> <li>5. Check power and digital cables are correctly connected.</li> </ol>
<p>The hand changes grips randomly.</p>	<p>This might mean:</p> <p>An idle grip and/or Grip Triggers have been set in MyTASKA. Connect to the hand and remove these grips.</p> <p>The calibration is not complete. Re-calibrate the Coapt system using the calibration button, or ControlCompanion.</p> <p>A cable is loose or has a poor connection. Check all the connections and re-do the prosthesis if required.</p>

PROBLEM	WHAT TO DO
<p>The hand responds much slower, or faster, than expected.</p>	<p>This might mean the input settings are not set correctly:</p> <p>CX Hands: Check the default settings are correctly configured using the table on page 14.</p> <p>TASKA HandGen2: With Bluetooth off, power cycle the hand.</p>

Contact your TASKA or Coapt representative for further troubleshooting assistance. For hand specific troubleshooting, refer to the Information For Use (IFUs) supplied with the TASKA Hand.

# TASKA HandGen2

The following information applies only to the **TASKA HandGen2**.

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## 1. Bluetooth

### Normal operation

When Bluetooth is on, grip changes and other communication from the Coapt system are ignored.

Always ensure the Bluetooth light is off when powering the hand on and using the Coapt system.

If Bluetooth is on during start-up, press and hold the hand button until the blue light goes out, then power cycle the prosthesis.



Bluetooth on: this prevents grip changes, but the hand may still open and close as normal.



Bluetooth off: the Coapt system functions normally with the TASKA Hand, including driving grip changes.

## 2. Connect

### Connecting the TASKA HandGen2 to MyTASKA

1. Ensure MyTASKA is installed on the device you are using, and if using a PC ensure the Bluetooth Dongle is inserted\*.
2. Hold down the hand button on the button panel to turn Bluetooth on.
3. Open the MyTASKA app on your device and connect to the TASKA Hand via Bluetooth.
4. Adjust the required settings as per section 4. **Configure\*\***.
5. To disconnect the hand from MyTASKA, click disconnect in the application.
6. Turn the hand Bluetooth off by holding down the hand button.
7. Power cycle the hand to reset Coapt.

Once reset, the Coapt system will operate as normal.

The Coapt system automatically sets most essential settings in the TASKA Hand, therefore connecting to MyTASKA for the initial setup may not be necessary.

\* Bluetooth Dongle not required when connecting to MyTASKA on a mobile device or tablet.

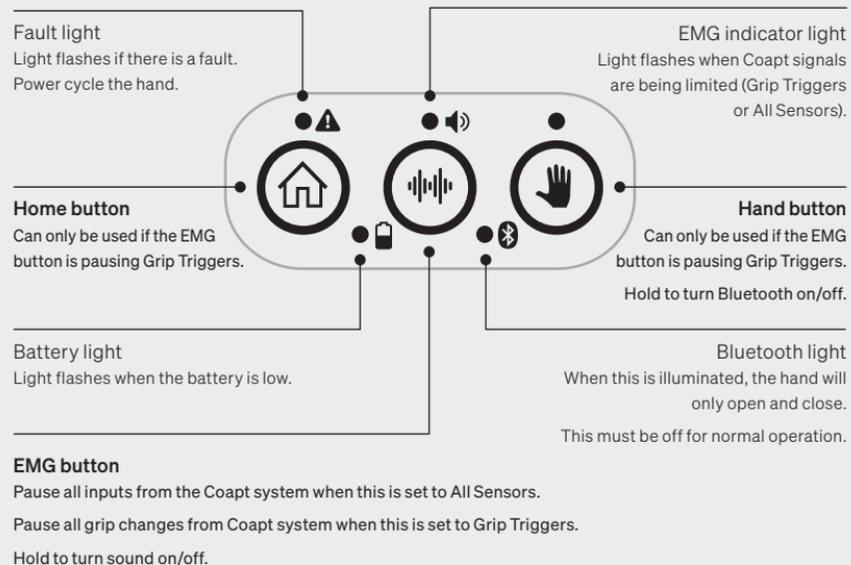
**!** \*\* If creating or modifying custom grips, do not modify the OK grip (custom 1), this grip is assigned to the Pincer grip within the Coapt system.

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## 3. Control

### Grip Cycle buttons

The Coapt system changes the function of the button panel.



## 4. Set EMG button

### Grip Triggers mode

By default, the EMG button will be set to pause Grip Triggers and Coapt grip change commands. The hand will still open and close freely.



1. Press the EMG button. This will pause grip changes from Coapt.
2. On your TASKA Hand select the desired grip using the Hand/Home buttons. The hand will open and close as normal.
3. Once the object is clear of the hand, press the EMG button again to turn Coapt grip changes back on.

### All Sensors mode

Change the EMG button setting in MyTASKA to All Sensors to allow the hand to be locked and ignore all inputs.



1. Press the EMG button to ignore all inputs from the Coapt system. The light above the Hand button will flash and a beep may be heard.
2. Input from the Coapt system is indicated by a green flashing light. The hand will stay locked in position.
3. Press the EMG button to unlock the hand and resume inputs from the Coapt system. The light above the EMG button will flash and a beep may be heard.

# TASKA CX

The following information applies only to the **TASKA CX**.

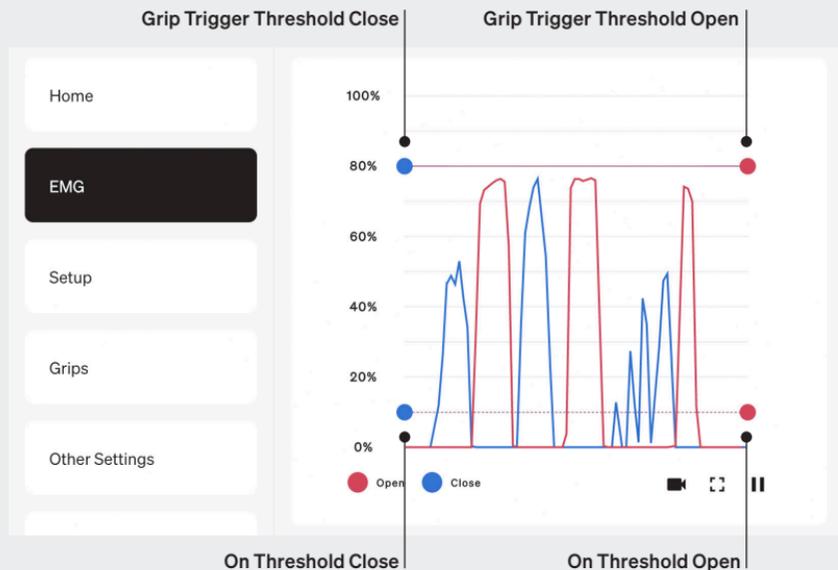
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## 1. Setup

To achieve optimal performance of the CX Hand and Coapt systems, the hand sensor settings must be set to factory defaults.

If the hand behaviour does not appear correct, check the Clinician Settings of the hand in MyTASKA, match those in the table below and the graph on the following page.

CLINICIAN SETTINGS	RECOMMENDED VALUE
Close Gain	100%
Open Gain	100%
Close Smoothing	0 – 6
Open Smoothing	0 – 6
On Threshold Close	4 – 10%
On Threshold Open	4 – 10%
Grip Trigger Close Threshold	80%
Grip Trigger Open Threshold	80%
Number of sensors	2
Idle Grip	Off
Grip Triggers	None set
OK Grip	Stored in 1st slot



**!** Ensure your patient is aware that adding an idle grip, or grip triggers, can cause adverse and unpredictable behaviour of the hand. These are not recommended.

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## 2. Control

### Button panel

Read the following carefully to understand the considerations on using the button panel when connected with Coapt.

#### Grip indicators

Three LEDs will flash to indicate a grip change.

A short beep will also be heard if sound is enabled.

#### Lock Light

Illuminates when the Lock button is activated.

#### Grip Cycle button

Cycle through the grips assigned.

Can only be used if the Lock button is set to pausing Grip Triggers.

#### Lock button

Pauses all movement, including grip changes, open/close commands when activated (locked).

Can also be set to only pause grip changes from Coapt by setting function to Grip Triggers.

#### Home button

Selects Home Grips.

Can only be used if the Lock button is set to pausing Grip Triggers.

Press and hold to turn Bluetooth on/off, or activate pairing mode.

## 3. Set Lock button

### All Sensors mode

By default, the Lock button will pause all inputs and grip changes. This can be used to pause the hand in position to prevent unintentional grip changes.



1. Press the Lock button once. This will pause the hand in position, and the white LED above the Lock icon will illuminate. A short beep may be heard.
2. Any input or grip change will be prevented from moving the hand.
3. To revert to normal movement, press the Lock button once. The white LED will then turn off, and a short beep may be heard if sound is enabled.

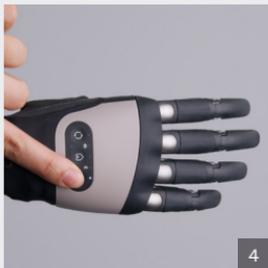
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### Grip Triggers mode

To select grips using the Cycle or Home buttons, the function of the Lock button should be changed to Grip Triggers in MyTASKA. This will then only pause Coapt grip changes when activated. Use this to temporarily change the Coapt system to only open and close.



1. Select a grip using either the Cycle or Home button.
2. Press the Lock button once, and the white LED will turn on above the lock button. A beep may also be heard if sound is enabled. This will pause grip changes from Coapt.
3. The hand will open and close as normal but will not change grips.



4. To revert to Coapt grip changes, press the Lock button. The white LED will turn off, and a beep may be heard if sound is enabled.

If the Lock button is not activated, and a grip is selected through the Cycle/Home button, the grip will change to the Coapt selected grip when a close signal is received.

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