

A person wearing a pink hoodie and brown plaid pants is sitting on a concrete ledge. They are wearing a black prosthetic hand on their left arm. The background shows a metal structure, possibly a bridge or industrial building.

# Guide for Clinicians

TASKA HandGen1, Gen2 with  
Coapt Gen1 or Gen2 System V1.1

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**COAPT**

# 1. Welcome

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## **Before you get started**

The TASKA Hand works seamlessly with the Coapt Gen1 or Gen2 systems.

Please read the following to ensure a successful startup for the TASKA Hand:

- The Bluetooth on the TASKA Hand must be turned off at all times for correct operation of the Coapt system.
- Electrode settings are automatically configured by the Coapt system. There is no need to modify electrode settings using the TASKA software.
- The OK (custom1) grip is assigned to Pincer Grip in the Coapt system and must not be modified.
- Do not configure Grip Triggers and Idle Return grips using the TASKA software. These will cause unpredictable operation with the Coapt system.
- A 6-band Coaxial Plug is required when using the Coapt system with a Quick Disconnect TASKA Hand.
- All Low Profile TASKA Hands come with a digital connection plug (labelled COMMS only). No additional adapters are required.

## 2. Review

### Clinician guides

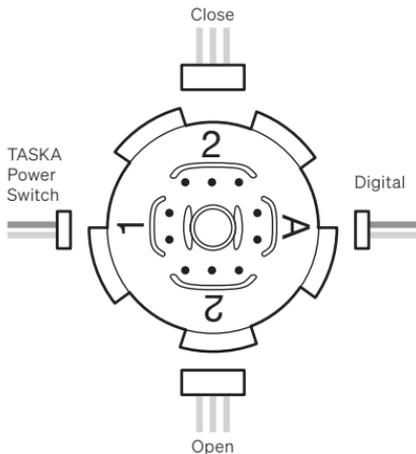
All Prosthesis Connection guides for TASKA + Coapt systems are available at:

[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.



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



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.

do more

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# 3. Bluetooth

## Normal operation

When the TASKA Hand 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 startup, 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.

do more

# 4. Configure

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## **Coapt ControlRoom**

Use the ControlRoom 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

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## **TASKA HandCal or MyTASKA**

HandCal or MyTASKA is only required to adjust the following settings:

- Set the hand into economy mode or disable low battery alarm.
- EMG button setting – Grip Triggers or All Sensors.
- Run a diagnostic test.
- Modifying custom grips.
- Assigning grips to the hand button.

# 5. Connect

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## Connecting to HandCal or MyTASKA

1. Ensure HandCal is installed and the Bluetooth dongle is connected to the PC.\*
2. Hold down the hand button to turn Bluetooth on.
3. Start the HandCal software or MyTASKA app and connect to the TASKA Hand.
4. Adjust the required settings as per section 4. **Configure\*\***.
5. To disconnect from the hand, click disconnect in the software.
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.

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

\* Not required when using MyTASKA.



\*\* If creating or modifying custom grips, do not modify the OK grip (custom1), this grip is assigned to the Pincer grip within the Coapt system.

do more

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# 6. Control

## Grip Cycle buttons

The Coapt system changes the function of the button panel.

### Battery light

Light flashes when the battery is low.

### Fault light

Light flashes if there is a fault. Restart the hand.

### Home button

Can only be used if the EMG button is pausing Grip Triggers.

### EMG indicator light

Light flashes when Coapt signals are being limited (Grip Triggers or All Sensors).

### Bluetooth light

When this is illuminated, the hand will only open and close. This must be off for normal operation.

### Hand button

Can only be used if the EMG button is pausing Grip Triggers. Hold to turn Bluetooth on/off.



### EMG button

Pause all inputs from the Coapt system when this is set to All Sensors.

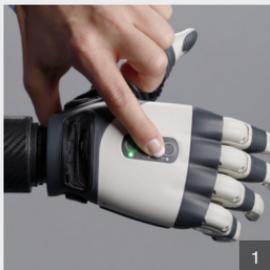
Pause all grip changes from Coapt system when this is set to Grip Triggers.

Hold to turn sound on/off.

# 7. 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.

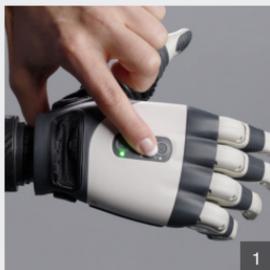
do more

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## All Sensors mode

Change the EMG button setting in HandCal or 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.

do more

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# 8. Troubleshoot

PROBLEM	WHAT TO DO
<p>ControlRoom 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.</li><li>2. The EMG 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.</li><li>5. Check the 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 HandCal or 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 ControlRoom.</p> <p>A cable is loose or has a poor connection. Check all the connections and re-do the prosthesis if required.</p>

Contact your TASKA or Coapt representative for further troubleshooting assistance. For hand specific troubleshooting, refer to the Appropriate Use Guidelines supplied with the TASKA Hand.

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