



MARK ROBERTS MOTION CONTROL

# WATCH MODEL MOVER

For HUBLOT



## QUICK START GUIDE

Product Code: MRMC-2029-00

Part number: MRMC-2058-00

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## Chapter 1 Quick Start



### Important safety instructions

To ensure the best from the product, please read this manual carefully. Keep it in the safe place for future reference.

To reduce the risk of electric shock, do not remove the cover from the unit. No user serviceable parts inside. Refer servicing to qualified personnel.

### General care

- Do not force switches or external connections.
- When moving the unit, disconnect the mains cable.
- Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Use a clean dry cloth.
- Do not use around flammable gas. All electrical equipment can generate sparks that can ignite flammable gas.
- Keep away from pets and children. The head has powerful motors that can pinch, so take care not to get your hands trapped in the head or cabling.
- Keep cables tidy. Use cable ties to keep them out of harm's way. If you have a head with slip rings then make use of them; avoid running any cables between the base and the rotating head or camera.

### Location

Installation of this unit should be away from sources of excessive heat, vibration, and dust.

### Intellectual property

This product includes confidential and/or trade secret property. Therefore, you may not copy, modify, adapt, translate, distribute, reverse engineer, or decompile contents thereof.

## Overview

Thank you for using the Watch Model Mover from Mark Roberts Motion Control (MRMC). You can use the Turntable for day in and day out use in product photography.

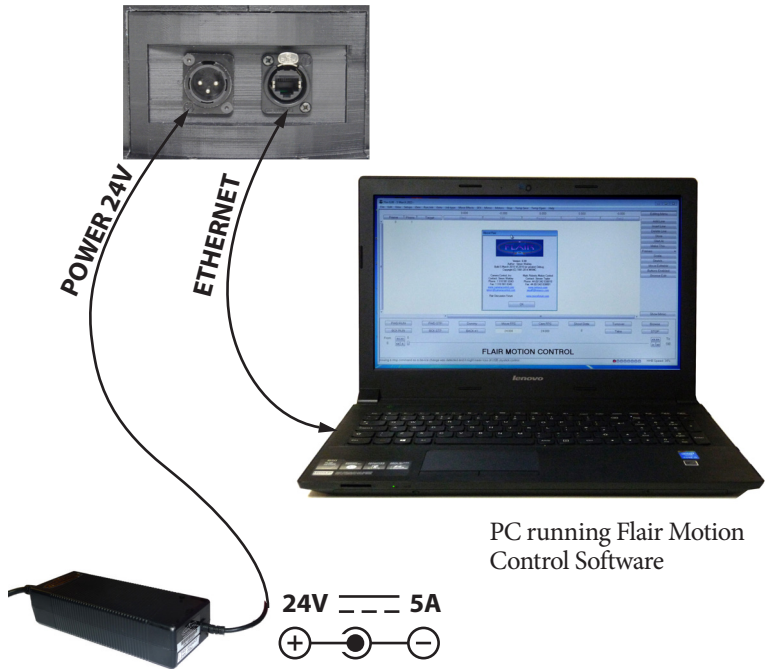
The Watch Model Mover is a robotic head that can be programmed with MRMC's Flair software to run moves and stop at designated positions so the mounted watch can be photographed or filmed. It allows three axes of motion: pan, tilt and roll. The axes of rotation are orthogonal to the watch face. In other words, the axes of rotation are centred around the watch face. The head can be placed on a desk or mounted on a tripod as required. To get the most out of the head, it is best mounted sideways on the tripod as shown in the next section.



## Mounting the Watch Model Mover on Tripod



## Connecting the Cables





## Mounting the Watch

1. Use the 4mm hex key to unscrew 2xM5 screws on the watch clamp.

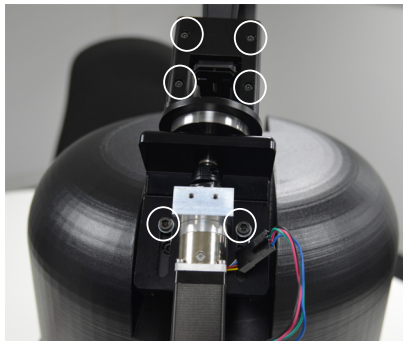


2. Slide the clamp cover out.



3. Loosen the 4xM3 screws using the 2.5 mm hex key on the clamp. Mount the watch on the clamp.

Also loosen the 2 xM5 screws.

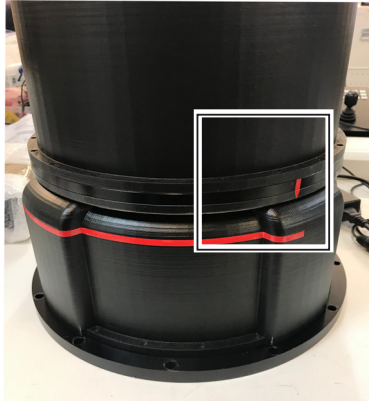


4. Adjust the clamp by sliding slightly to the left or right according to the size of your watch, as required.

5. Once in the desired position, tighten the screws and attach the clamp cover.

## Limits of Rotation

The axis of motion limit markers have been defined on the Watch Model Mover. These limits marker denote the point up to which the axes would rotate before finding the end.



## Using the Watch Mover

1. After the Watch Mover is powered up, move the pan axis to a known position.
2. Home the tilt axis.
3. Move the roll by hand once the watch is mounted.

Notes

Notes

## Appendix 1 Specifications

Range of motion:

Pan : 225 degs

Tilt : 94 degs

Roll : 360 degs

Speed of motion:

Pan: 7 degs/sec

Tilt: 30 degs/sec

Roll: 80 degs/sec

Payload mass: <1Kg

Payload Volume: 150mm x 150mm x 150mm (XYZ)

Speed: Max. 6°/Sec – All axes

Position Repeatability:  $\pm 1^\circ$  = All axes

Control Interface: MRMC Flair Software

Notes

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