MARK ROBERTS MOTION CONTROL

# ETHERNET UNIBOARD PAN BARS

## QUICK START GUIDE

QSG Product code: MRMC-2318-00
Product covered: MRMC-2287-00

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## Ethernet Uniboard Pan Bars Quick Start Guide

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# Chapter 1 **Quick Start**

## Safety

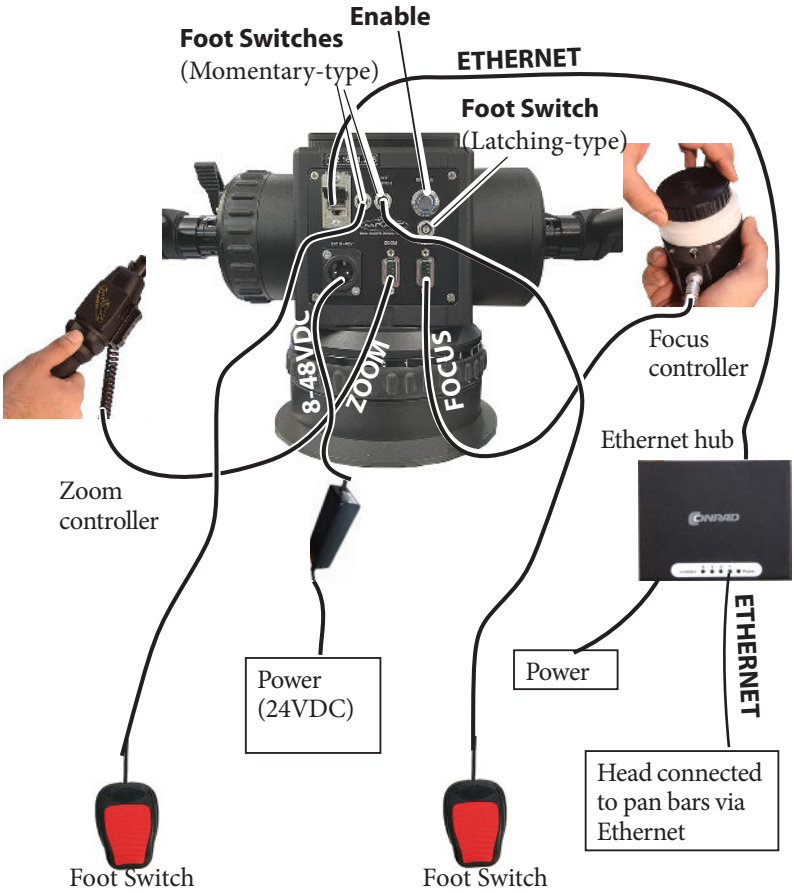
- Do not use around flammable gas. All electrical equipment can generate sparks that can ignite flammable gas.
- Keep the equipment dry. The system has **not** been made weatherproof. Do not use with wet hands.
- Keep cables tidy. Use cable ties to keep them out of harm's way. If you have a head with slip rings then make use of them; avoid running any cables between the base and the rotating head or camera.

## Overview

Thank you for using the Ethernet Uniboard Pan Bars from Mark Roberts Motion Control (MRMC). Pan Bars is a Ethernet mimic controller for an MRMC camera rig. It gives you a smooth, precise and real-time control over your choice of camera axes — pan and tilt, lift, rail and camera control — zoom or focus or both. Pan Bars are designed to work well with MHC software systems by MRMC.

This product enables two momentary-type foot switches to be connected to the PanBars. The momentary-type foot switches to be compressed continually while in operation, once pressure is removed the contacts reset to the original state. Each of these foot switches can be connected to move a bi-directional axis – one switch dedicated for each direction. A third foot switch is maintained or latching type which is activated when pressure is applied and remains in contact position until the switch is pressed again.

# Connecting the Cables



## Connecting the cables

1. Connect the Focus controller cable to the **FOCUS** port in the Pan Bars panel and Focus controller. Ensure that the red markers on the plug and socket are aligned.

2. Connect the Zoom controller cable to the **ZOOM** port on the Pan Bars panel.

> Note
>
> If you are not using the Zoom controller, disable the axis in the software.

3. Connect the Foot Switches to the **FOOT SWITCH** connectors. They are interchangeable.
4. Connect the Ethernet and power cables, as shown. Your Pan Bars configuration can have an MHC or Flair PC which is in turn connected to the head via Ethernet or you can use MSA Joystick controller from MRMC via Ethernet which need not be connected to a PC.
5. Add the Pan Bars as a device in MHC Admin login (if applicable). For detailed instructions, refer to Chapter 2 *Setting up the Pan Bars unit in MHC*. You can also refer to the MHC Quick Start Guide for more help on using MHC software application.

   You can now use the Pan Bars to control the currently active head in MHC.

## Enable button

Enable is a toggle button; pressing it allows you move the Pan Bars without changing the head position. Releasing this button allows the head to be controlled by Pan Bars.

# Your first session

Instructions for using the head with a specific controller, are beyond the scope of this manual. When you want to use the Pan Bars, you typically need to perform the steps given below. Refer to the manual that came with your head for details.

1. Attach the cables to the Pan Bars, Laptop and robotic rig, as described in the previous section. Make sure the relevant indicators light up; for example, the power indicator LEDs on all 24Volt power supply bricks ( ), and the power indicator LED on the head ( ).

   > Note
   >
   > It is a good idea to attach the power cables last, after all the other cables are in place.
   >
   > It is also recommended that you power up MHC PC last, after powering up the head, as powering up two devices simultaneously on the same Ethernet network can cause communication problems.

2. Set up the head using MHC software.

> Notes on known issues in MHC v3.3
>
> - If head is outside its limits when Pan Bars is connected, the head moves to its soft limit.
> - If network cable is removed and added on Pan Bars there is a small twitch in pan and tilt position.

## Turning off the system

There's no power switch on the Pan Bars; power is turned off by removing the power cable for Ethernet Pan Bars.

Notes

# Chapter 2 **Setting up the Pan Bars unit in MHC**

## System configuration and startup

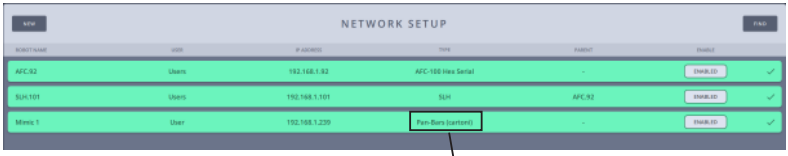
> Hint
>
> When connecting an MHC Server PC with the Pan Bars using an Ethernet connection, you might need to temporarily disable the **Wi-Fi** connection on the PC so that MHC does not try to use it to connect to the Pan Bars. (In the PC's Network and Sharing Center, click on **Change Adapter settings**, right-click on **Wireless Network Connection** and in the pop-up menu choose **Disable**.)

Pan Bars with an internal Uniboard are added as an Ethernet connected device in MHC. Pan Bars can be assigned to a single user, and NOT All users. Only that user can then use the Pan Bars to control a selected head in MHC. You can add only one Pan Bars for each MHC system; in other words, one per MHC Server installation.

The procedure below tells you how to configure MHC to recognise the Pan Bars.

1. Make sure the relevant cables are attached as described in the previous section.
2. Log in to the MHC Client as Admin.
3. In the Network Setup page, click the **FIND** button.
4. Click **ADD** for the IP address of the Pan Bars and click **DONE**.

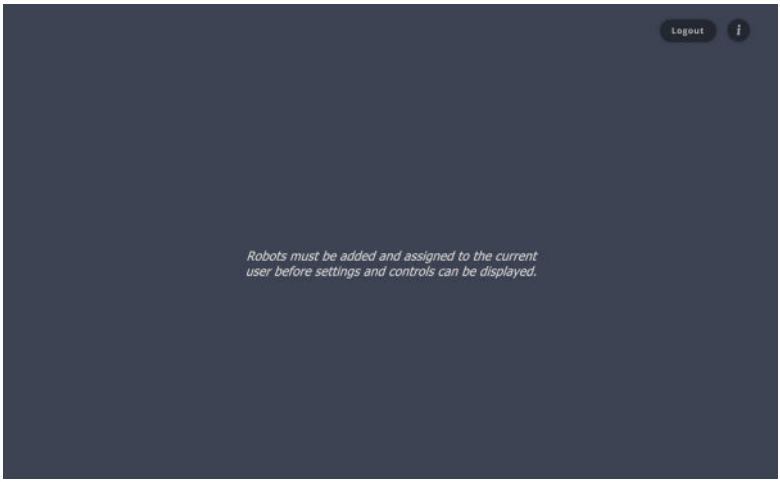
   Note that the rig Type is auto selected as Pan Bars.




Rig type selected

5. Assign a user in the User drop-down.
6. Log out and log in as the user that you assigned the Pan Bars to. You should now be able to control the active head with Pan Bars.

> Note
>
> If you have assigned the Pan Bars to a user without assigning any heads to that user, the User login page will show an error message.




## Assigning axes to Pan Bar Controls

> Note
>
> It is recommended that you contact MRMC for assistance in changing default axis settings.

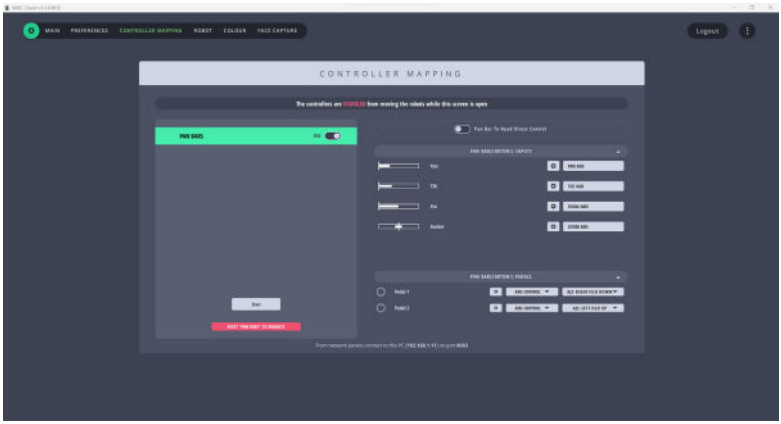
If not done already, add Pan Bars to the MHC network setup as follows:

1. Log out and log in as a user.
2. Ensure that the head appears green. Home the axes, as required. For further help refer to *MHC v3.3 User Guide*.
3. Select →**Controller Mapping**.

4. Toggle the slider to **Use**. The selected head on the MHC main page can now be controlled by Pan Bars.

5. Use the right pane to assign various functions to Pan Bar inputs and switches.

6. In the following example screen, Pan, Tilt, Pot and Rocker are assigned to Pan Axis, Tilt Axis, Focus Axis and Zoom Axis, respectively. Foot switches 1 and 2 are assigned to move the SLH down and up, respectively. Use the drop-down options to modify, as desired.




7. Click ⚙ to set the axis speed for the foot switch.

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