Pan Bars Quick Start Guide

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</tbody>
</table>
Contents

Chapter 1  Quick Start................................................................. 1

Safety......................................................................................... 1
Overview...................................................................................... 1
Pan Bars — With PC and Joystick Controller....................... 2
  Connecting the cables .......................................................... 3
  Your first session .................................................................. 3
  Turning off the system .......................................................... 4
Pan Bars — With Microsoft Surface Pro .............................. 5
  Connecting the cables .......................................................... 6
  Your first session .................................................................. 6
  Turning off the system .......................................................... 7
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 Pan Bars from Mark Roberts Motion Control (MRMC). Pan bars attached to a Mini USB Joystick Controller allows you to manoeuvre the MRMC camera head. It gives you a smooth, precise and real-time control over your choice of camera axes — pan and tilt, and camera control — zoom and focus.
Pan Bars — With PC and Joystick Controller

- Head connected to pan bars using Ethernet
- Power
- Ethernet hub
- Ethernet Mimic Box
- Monitor (Optional)
- To USB Joystick Controller
- PC

Pan Bars Quick Start Guide
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.

3. Use the Expansion cable to connect the **EXPANSION** port on the Pan Bars panel and the Expansion port on the Ethernet Mimic box.

4. Connect the Mini USB Joystick Controller to the PC using the USB cable. You can optionally connect the PC to a monitor, keyboard and mouse if you want to change any Pan Bars settings using the MHC software on the PC.

5. Connect the PC to mains using the supplied 12V DC power adaptor.

6. Connect the PC, Ethernet Mimic box, and the MRMC head with the Ethernet hub using network cables.

7. Connect the power cable to the **POWER** socket in the control box. Ensure that the red markers on the plug and socket are aligned.

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, Ethernet Mimic box, PC and head, 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 the PC last, after powering up the head, as powering up two devices simultaneously on the same Ethernet network can cause communication problems.

2. Focus control has to be physically set to zero before booting up the PC. To do this, fully rotate the Focus knob anticlockwise on the joystick to zero the focus axis.

3. Press the POWER button on the PC for less than one second to boot. The PC takes about 30 seconds to start up.

If an error occurs, such as a missing connector, the panel on the Mini Joystick Controller displays the message “(!) - Back to Repair”, press the Back button to resolve the error. Such an error can occur, for example, when a serial lens connector is missing, the system recognises that it cannot control the axis and trips the axis.

Turning off the system

Turn off the PC by pressing the power button for less than one second to power it down. Do not remove the power cable to turn off the PC. It can damage the system.

Remove the power cable to turn off the Mini Joystick Controller and the Ethernet Mimic box.
Pan Bars — With Microsoft Surface Pro

- Head connected to pan bars using Ethernet
- Power
- Ethernet hub
- Ethernet Mimic Box
- Network port
- Surface Pro
- Ethernet hub
- EXPANSION
- Ethernet
- FOCUS
- ZOOM
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.

3. Use the Expansion cable to connect the **EXPANSION** port on the Pan Bars panel and the Expansion port on the Ethernet Mimic box.

4. Connect Surface Pro, the Ethernet Mimic box, and the MRMC head with the Ethernet hub using network cables.

5. Connect the power cable to the **POWER** socket in the control box. Ensure that the red markers on the plug and socket are aligned.

6. Connect the devices in the system – Surface Pro, Ethernet hub, and head – to power.

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, Ethernet Mimic box, Surface Pro and head, 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 Surface Pro last, after powering up the head, as powering up two devices simultaneously on the same Ethernet network can cause communication problems.

2. Focus control has to be physically set to zero before booting up the PC. To do this, fully rotate the Focus knob anticlockwise on the joystick to zero the focus axis.

3. Press the POWER button on Surface Pro.

4. Set up the head using MHC software installed on Surface Pro.

Turning off the system

Turn off Surface Pro by pressing the power button. Remove the power cable to turn off the Ethernet Mimic box.