80-400 LENS
ROLL RING

QUICK START GUIDE

Document version: LRR-80-400-20160225
Part number: MRMC-1308-00
80-400 Lens Roll Ring Quick Start Guide

Document version: LRR-80-400-20160225
Part number: MRMC-1308-00

© 2016 Mark Roberts Motion Control Ltd. All rights reserved.

No part of this publication may be reproduced, transmitted, or translated by any means — graphical, electronic, or mechanical — including photocopying, recording, taping, or storage in an information retrieval system, without the express written permission of Mark Roberts Motion Control.

Although every care has been taken to ensure that the information in this document is accurate and up to date, Mark Roberts Motion Control continuously strives to improve their products and may make changes to the hardware, firmware, and software described in this document. Mark Roberts Motion Control therefore cannot be held responsible for any error or omission in this document.

All product names mentioned herein are the trademarks or registered trademarks of their respective owners.

<table>
<thead>
<tr>
<th>Contact information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Roberts Motion Control Ltd.</td>
</tr>
<tr>
<td>Unit 3, South East Studios</td>
</tr>
<tr>
<td>Blindley Heath</td>
</tr>
<tr>
<td>Surrey</td>
</tr>
<tr>
<td>RH7 6JP</td>
</tr>
<tr>
<td>United Kingdom</td>
</tr>
<tr>
<td>Telephone: +44 (0) 1342 838000</td>
</tr>
<tr>
<td>E-mail: <a href="mailto:info@mrmoco.com">info@mrmoco.com</a> (sales and general enquiries) <a href="mailto:support@mrmoco.com">support@mrmoco.com</a> (customer support)</td>
</tr>
<tr>
<td>Web: <a href="http://www.mrmoco.com">www.mrmoco.com</a> <a href="http://www.mrmocorentals.com">www.mrmocorentals.com</a></td>
</tr>
</tbody>
</table>
Contents

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

Overview ............................................................................. 1
Replacing the camera platform ........................................... 1
Mounting the Roll Ring on the lens and camera .......... 2
Mounting a Lens Control Motor for the Roll Ring ....... 5
Mounting the Roll Ring on the camera platform .......... 6
Mounting a Lens Control Motor for the Focus or
Zoom ..................................................................................... 7
Chapter 1  Quick Start

Overview
The 80-400 Lens Roll Ring from Mark Roberts Motion Control fits around your Nikon 80-400 DSLR lens. The Roll Ring allows you to mount the lens and camera onto an AFC Head and roll the camera remotely between Portrait and Landscape orientations. The Roll Ring kit includes a camera platform that replaces the platform provided with your AFC Head. The new platform has additional mounting points further from the head which provide the camera positioning and extra clearance needed for the roll. The Roll Ring itself has a spare mounting bar (“matte bar”) that rolls with the camera, for an additional Lens Control Motor such as Focus or Zoom.

Replacing the camera platform

1. With the AFC Head switched off, rotate the platform upwards in Tilt, by hand, so you can access the platform bolts.

2. Remove the 5 bolts and the old platform.

3. Use the same bolts to attach the new platform.

4. Rotate the platform back down in Tilt, unless you want to mount the camera in an upside-down underslung position.
Mounting the Roll Ring on the lens and camera

The Roll Ring fits onto the lens between the lens and the camera.

1. Remove the lens from the camera.
2. Zoom the lens out to 80 so the lens is fully retracted into its shortest length.
3. Stand the lens vertically on a smooth table, pointing down.
4. Put the Roll Ring onto the lens in the orientation shown, paying attention to the alignment indicator dot on the lens. Make sure the Roll Ring lies flat on the lens pegs. Loosen the Roll Ring clamp bolts if required (shown on page 4).

5. With one hand hold the camera pointing down over the lens but not touching it. With the other hand slide the camera mounting bolt up in its slot and screw the camera mounting bolt into the base of the camera. **Keep the camera mounting bolt loose for now.**

6. Lower the camera onto the lens, lining up the lens alignment indicator dots on the lens and camera.
7. With the camera lying flat on the lens, lock the lens onto the camera by holding the lens still and turning the camera anti-clockwise as viewed from above, until it clicks into place.

8. Tighten the two Roll Ring clamp bolts evenly, making sure that the Roll Ring remains flat on the lens while you do this.

9. Tighten the camera mounting bolt on the base of the camera.
Mounting a Lens Control Motor for the Roll Ring

1. Loosen the roll motor clamp, rotate the motor in its bracket so it is 90° from the clamp opening, and re-tighten the roll motor clamp. This should help to maximize the clearance between the roll motor and the AFC Head when you mount the system to the AFC Head later.

2. Loosen the mounting bar clamp.

3. Slide the mounting bar clamp onto the mounting bar, making sure that the roll motor gear aligns with the roll gear on the Roll Ring.

4. While pressing the motor gear against the roll gear on the Roll Ring, tighten the mounting bar clamp firmly.
Mounting the Roll Ring on the camera platform

✧ Use the two M6 bolts to mount the Roll Ring onto the camera platform on the AFC Head.
Mounting a Lens Control Motor for the Focus or Zoom

The 80-400 Lens Roll Ring has a mounting bar for a Focus or Zoom Lens Control Motor. This mounting bar rotates with the lens and camera when you move the Roll axis.

1. Slide the Lens Control Motor bracket onto the mounting bar and into its approximate position, with the motor gear centred over the lens ring that you want to control (Focus or Zoom).

2. On the lens ring that you want to control, rotate the ring to the middle of its range by hand.

3. Feed the cable ties loosely through the strap gear.

4. Slide the strap gear onto the lens ring that you want to control (Focus or Zoom) and under the motor gear, making sure that the cable ties and motor gear are on opposite sides of the lens.

5. Centre the strap under the motor gear and tighten the cable ties.

6. Press the motor gear firmly against the strap gear and lens ring, and tighten the mounting bar clamp firmly.