



**WILLIAM F. WHITE
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MO-SYS L 40 - 3rd Axis Quick Set-up Guide

REMOTE HEADS



Manual Version 1.0

Questions or concerns, please contact Michael Darby 416.707.1549, mdarby@gmail.com

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MO-SYS L 40 3rd Axis Intro

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The Mo-Sys L40 can be used in a standard 2 axis mode or 3 axis mode with a roll ring. In order to use the L40 in 3 axis mode additional wiring and hardware required. The additional components are as follows...

- Mo-Sys roll ring with adapter plate
- digital touch screen console
- input device (operator wheel and encoder)
- 3 x Mo-Sys bus cables
- external on/off

In the 3rd axis kit there are several other pieces of hardware supplied for camera balancing and nodal lens plates.

Getting Started...

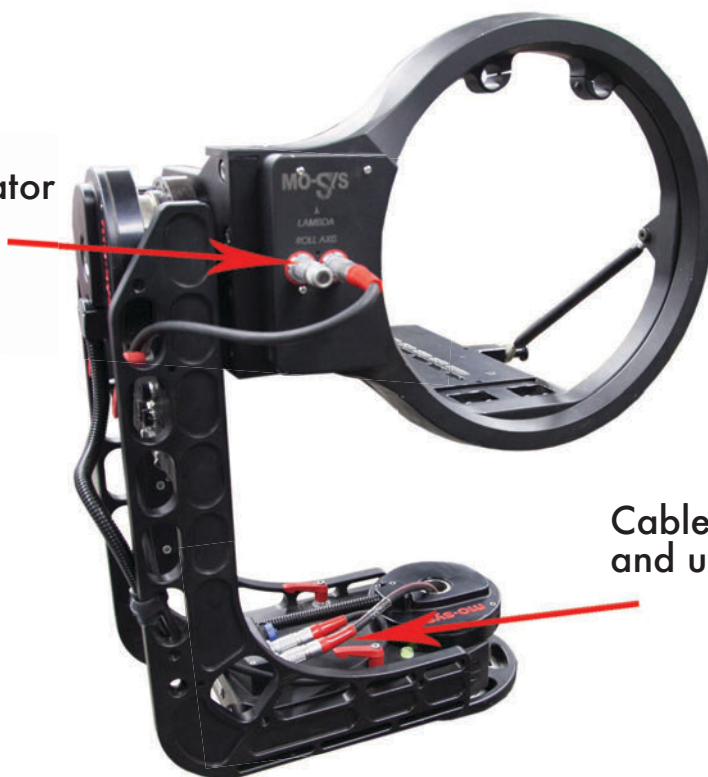
1. Set up the wheels station in typical 2 axis mode. The push button console will be replaced with a digital touchscreen console. A third handwheel will be added to the right side of the operation plate.
2. The digital console does not have an input for 24v XLR power so an external On/Off box is supplied. Plug a XLR to the power supply on one side and a Mo-Sys bus cable onto the other. ***Pull the terminator from the pan encoder and place in the empty can bus socket in the On/Off, it doesn't matter which side.
3. Plug the Mo-Sys bus cable from the On/Off into one of the 3rd axis encoder sockets.
4. Plug the another Mo-Sys bus cable from the empty pan encoder socket to the third axis encoder. The original cable that was connected to the pan encoder to the console should still be attached. Reattach this cable to the new console.
5. The wiring from the console to the head is the same as the L40. Remove the terminator from the pan axis and place into the front of the roll ring. A Mo-Sys bus cable is required from the pan axis to the roll ring.



MO-SYS L 40 3rd Axis - Hardware Layout

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Cable and terminator
from pan axis



Cable from console
and up to roll ring



3rd axis wheel

On/Off box with termi-
nator from pan wheel

Cable from On/Off and
between Pan and Roll
wheels



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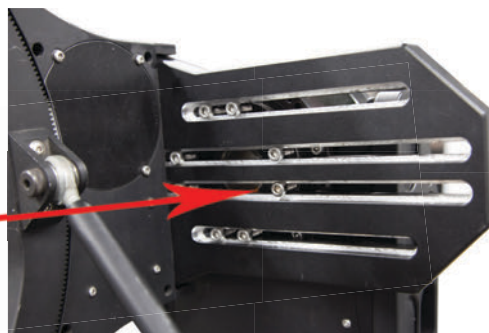
MO-SYS L 40 3rd Axis - Hardware

REMOTE HEADS



Remove the 8 bolts holding the tilt axis on and remove the tilt arm

Place roll axis over the bolt pattern and re-tighten. You now have two ways of adjusting the fore and aft balance, on these screws and on your camera plate that is attached to the roll ring



Balance and Nodal Positioning

The roll ring kit has several plates with varying heights for your sliding dove-tail. These were made when film cameras were the standard and the nodal position was very predictable. Digital cameras may or may not be completely nodal depending on baseplates and brands.

*** If your camera is set on the lowest plate and the centre of gravity is low the 3rd axis may stall or shut down the head (excessive error or heating up of the roll motor). There are 19mm rods provided and counter weights for the top of the ring that balance the centre of gravity. Turn the camera on its side to determine the correct balance point and add weight accordingly. This does not have to be perfect for the roll to work. These weights can also be used to adjust the fore and aft balancing.

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MO-SYS L 40 3rd Axis - Console Pg 1

REMOTE HEADS

When the system is wired up and turned on from the On/Off box the DISABLED button will flash in the corner, press this and it will switch to ENABLE and turns solid ***works on each subsequent screen

Horizon is not activated, disregard

Mode will toggle between Live and Locked for each axis

The menu button takes you to advanced options that shouldn't be required. If pressed hit X or back to get back to the main screen

This will advance to additional axis that aren't present, disregard

Setup will take you to the page seen below for axis speed and smoothing



MAIN PAGE

Adjust speed and level of smoothing for each axis

Returns the operator to the main page

Menu opens another page for additional axis options and adjustments



SETUP PAGE

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MO-SYS L 40 3rd Axis - Console Pg 1

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Set will set the end stops for each axis

This will adjust the dampening at the end stop if an end stop is set

Sens will toggle between X and check mark, leave on X. If pressed the axis will not respond unless manually moved

X will return the operator to the previous screen

Zero will zero the degrees counter for each axis. This may be useful to get back to level on the roll axis once set.

DIR will change the direction of the axis control

MENU Screen from Setup Page

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