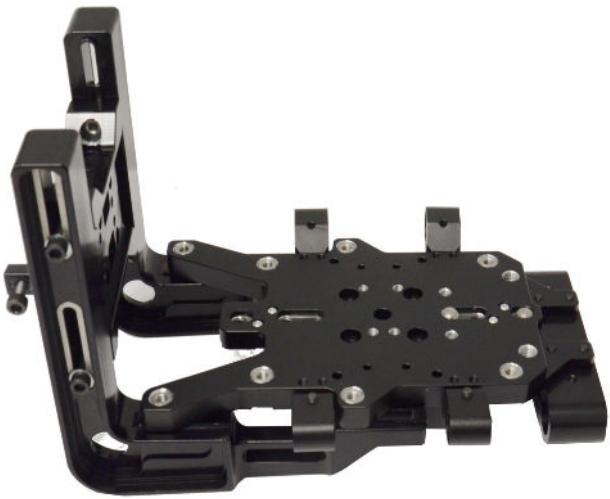
MARK ROBERTS MOTION CONTROL

CAMERA PLATFORM FOR BOLT FAMILY



QUICK START GUIDE

QSG Product Code: MRMC-2016-00
Product covered: MRMC-1988-00

Camera Platform for Bolt Family Quick Start Guide

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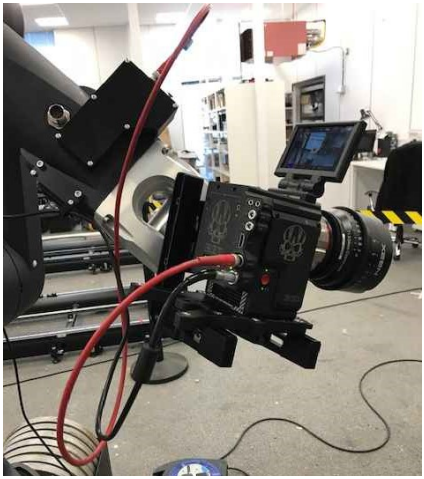
Chapter 1 **Quick Start**

Overview

The Camera Platform from Mark Roberts Motion Control fits the arm on Bolt family of robots including Bolt, Bolt X, Bolt Jr+and Bolt Jr. The new camera plate is a universal mount for many of the commonly used cameras in the filming and broadcasting industry including Red Epic, Phantom Flex 4K, Blackmagic and Arri Alexa.

Depending on your camera and your requirement, your camera can be use to top-, side- and end-mount the camera on the robot arm.

Top-mounted camera



Side-mounted camera

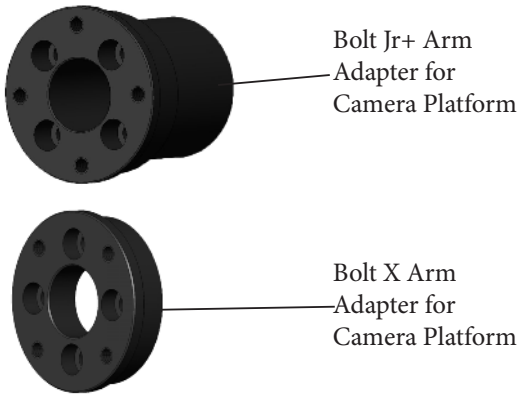
End-mounted camera

The new platform has additional mounting points which provide the camera positioning and extra clearance to position lens motors when required. The platform has two sets of 4x**15mm** and 4x**19mm** matte clamps when you want to switch between 15mm and 19mm matte bars. In addition, it has extra 19mm matte bar holder in the front for extra support for longer or heavier lenses. Note that the Camera Platform does not include matte bars itself.

> Note
>
> The Camera Platform is not in the Bolt family of robots' rig models for versions prior to Flair v6.45. Contact MRMC at **support@mrmoco.com** to obtain the correct rig model for your robot.

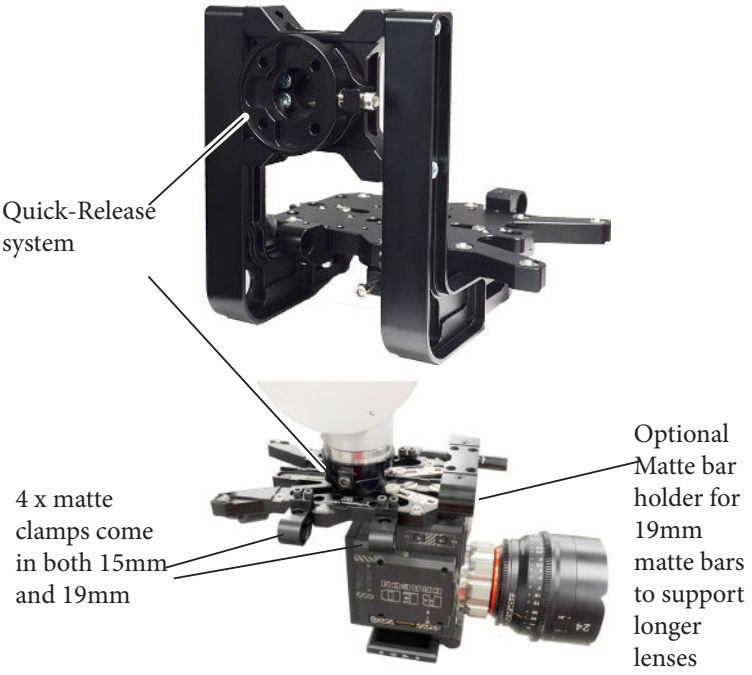
Camera Platform Adapter for Bolt Jr+ and Bolt X

An **adaptor** is first attached to the arm of the Bolt Jr+ or the Bolt X robots using 4xM6 screws before the Camera Platform can be mounted on it using the Quick Release system.



Quick-Release System

The Bolt Camera Platform can be easily mounted on the Bolt arm using the Quick-Release system.

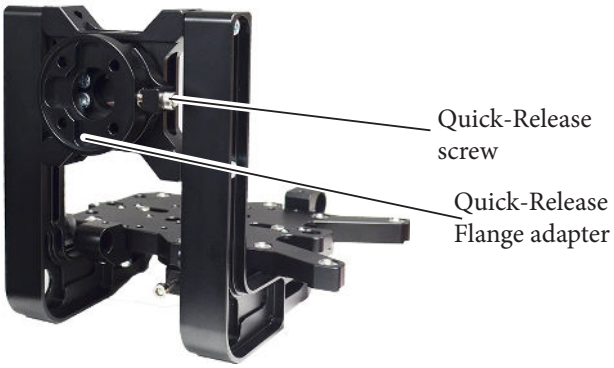


The Quick Release system can be mounted to any of the Bolt family of robots with the help of a Flange Adaptor that is

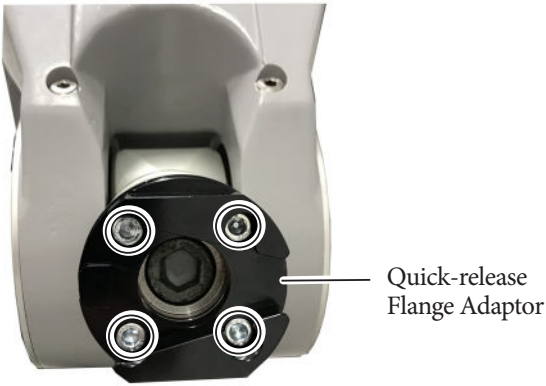
However, for sturdy shots such as those for macrography, you can remove the Quick-Release system from the camera plate and mount the Camera Plate directly to the Bolt arm using 4xM6 screws.

Mounting the Quick-Release Flange Adaptor

1. If the Quick-Release Flange Adapter is not already mounted on the arm, release it from the camera platform by unscewing the Quick-Release screw.

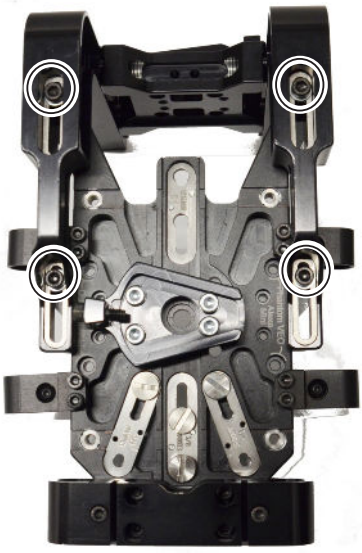


2. Attach the Quick-Release Flange Adaptor to the Bolt arm using the 4xM6 screws.



Mounting the Camera on the Camera Plate

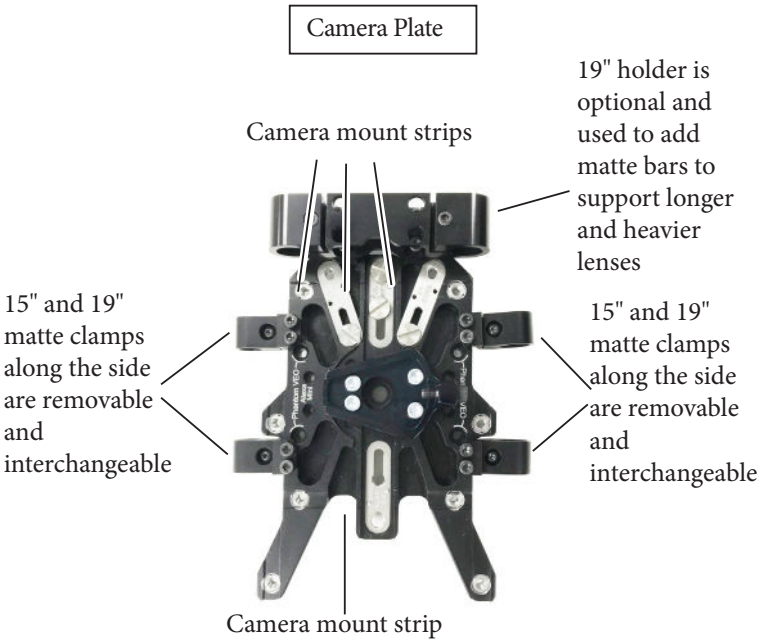
1. Using an allen key, remove the camera plate from the L-bracket by removing the 4xM6 screws.



Hint

There are slots in the L-bracket and camera plate labelled '**store**' to store screws for safekeeping.

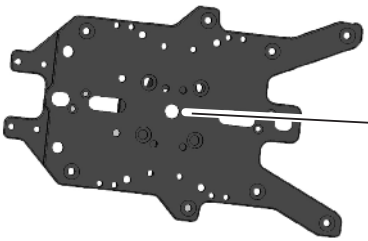
The camera fits on to the Camera plate, which fits on the L-bracket sideways.



2. Mount the camera on the Camera Plate by aligning your camera with the slots in the camera mount strips and then tightening the UNC camera screws. There are both **1/4”** and **3/8”** camera mount strips which can be swapped to fit most cameras

.

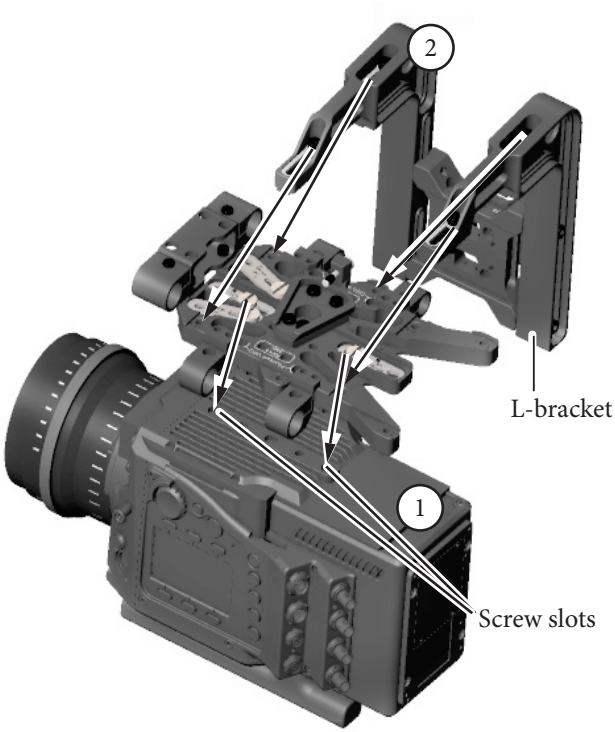
Screw slots


The centre screw cavity
can also be used to fix
a camera.

3. Slide the mounting plate into the flange adapter in the arm and tighten the M6 quick-fix screw.

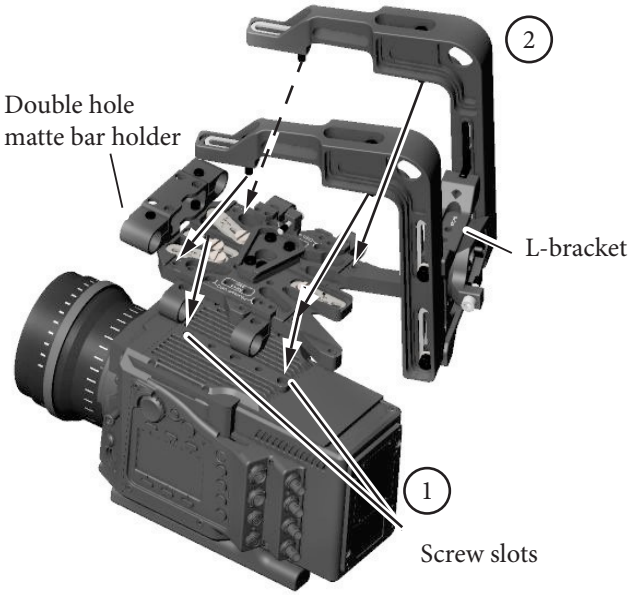
Side-Mounting the Camera on the Plate

1. Mount the camera on the camera plate.
2. Fix the L- bracket on to the camera plate sideways using the 4xM6 screws and washers.



End-mounting the Camera on the Plate

1. Mount the camera on the camera plate.

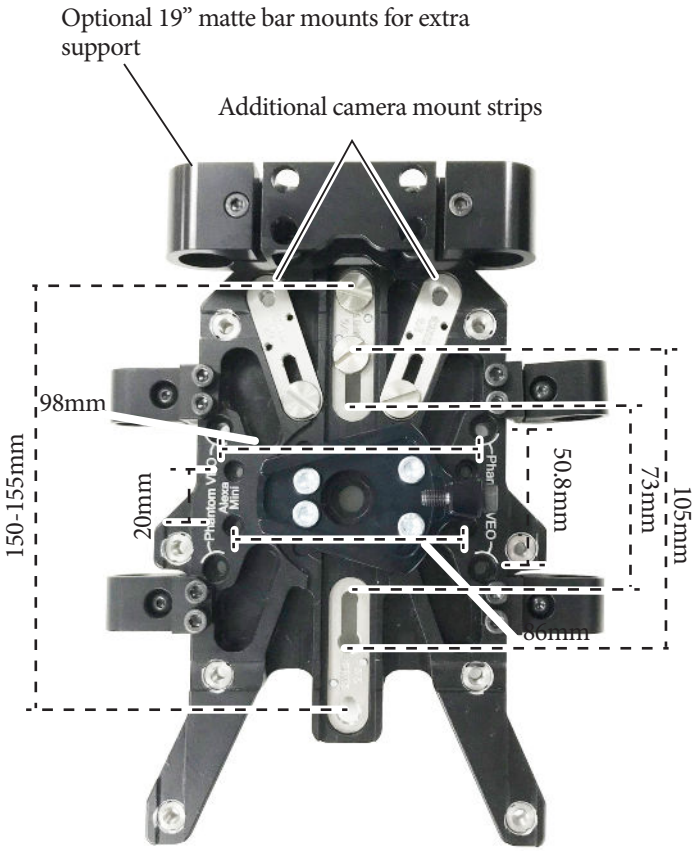


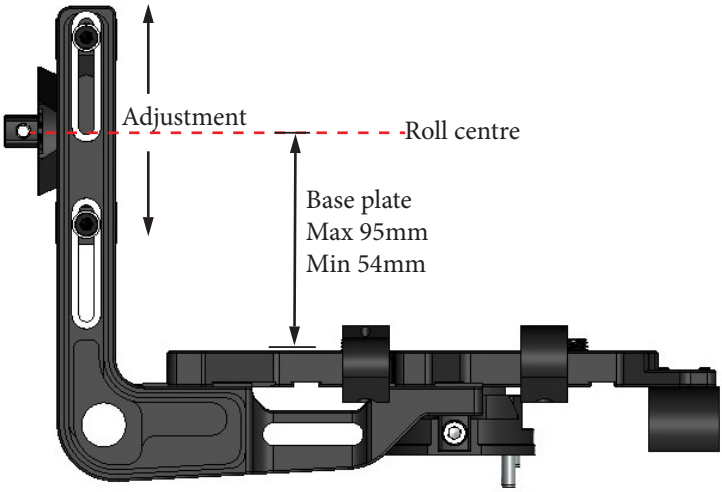
2. Mount the L-bracket on the camera plate such that the double hole matte bar holder is under the ends of the L-bracket. Tighten the 4xM6 screws and washers.

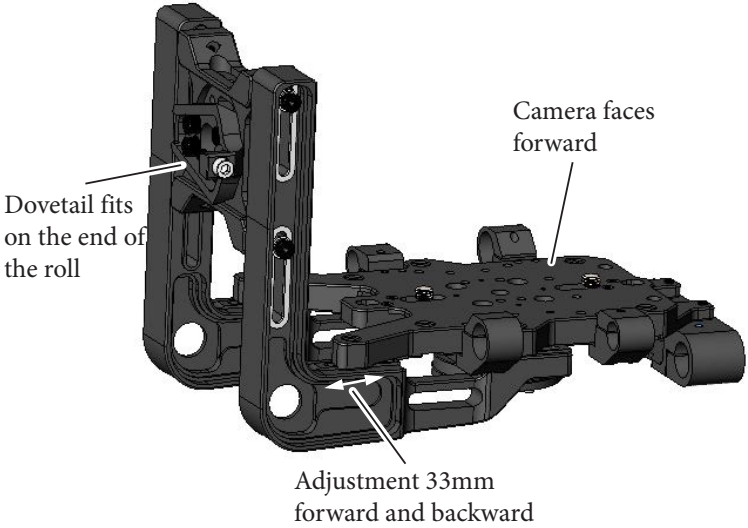
Mounting the Camera Bracket on the arm

Once the camera has been side- or end-mounted on the Camera Plate and added to the bracket, the Camera Bracket can be mounted on the arm by aligning the adaptor in he L-bracket with the Dovetail Flange Adaptor in the arm.

Camera Plate Physical Specification




Adjustment
Roll centre
Base plate
Max 95mm
Min 54mm


Camera faces
forward
Dovetail fits
on the end of
the roll
Adjustment 33mm
forward and backward

Notes

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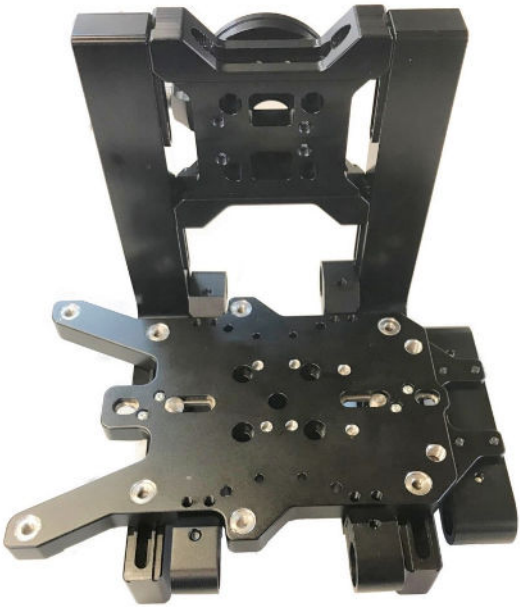

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