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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 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 used to top-, side- and end-mount the camera on the robot arm.

Top-mounted camera

Side-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 a spare set of matte bar mounts when you want to switch between 15mm and 19mm matte bars. In addition, it has extra 19mm matte bars for extra support for longer or heavier lenses.

**Quick-Release System**

The Bolt Camera Platform can be easily mounted on the Bolt arm using the Quick-Release system.
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 not already mounted, 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 bracket by removing the 4xM6 screws.

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

Flange Adaptor
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 the L-bracket with the Dovetail Flange Adaptor in the arm.
Camera Platform for Bolt Family Quick Start Guide

Camera Plate Physical Specification

Additional 19” matte bar mounts for extra support

Additional camera mount strips

Dimensions:
- 98mm
- 150-155mm
- 50.8mm
- 73mm
- 105mm
Notes