



Paramount Series 6 New Features



Since 1996, Paramount™ mounts have set the standard for stability, performance, and reliability. The latest Paramount Series 6 models offer the following refinements, enhancements, improvements, and optional features.

Updated Telescope Control System

The MKS 6000™ is Software Bisque’s latest dual-axis DC servomotor telescope control system (TCS) for gear-driven Paramount mounts. The MKS 6000 TCS features:



Expanded Communication Options: Includes USB-C, Ethernet, and Wi-Fi for computer to mount communication.



Improved Reliability: Use either the USB-C or Ethernet ports for hard-wired communication. Or, with a Wi-Fi enabled device, wirelessly control the mount (supports ad hoc and infrastructure networks).

Native Support for On-Axis Absolute Encoders: The PCB has integrated BiSS encoder support for optional Renishaw on-axis absolute ring and tape encoders.

On-Axis Absolute Ring Encoders (Optional)



On-Axis Ring Encoder Features:

- ✓ Mechanical mount initialization (or *homing*) is not required.
- ✓ No periodic error.
- ✓ Exceptional pointing and tracking results using fewer TPoint™ calibration points.
- ✓ 26-bit Renishaw absolute ring encoders have 0.02 arc second precision provide optimal performance.
- ✓ The extended temperature range (ETR) Renishaw encoder read heads can operate between –40°C and +80°C.
- ✓ Ring encoders can be installed at the factory or in the field.
- ✓ Renishaw encoder communication protocol is directly supported by the MKS 6000.

TheSky Universal Software Bundle



All Paramount Series 6 mounts include TheSky Universal bundle software. Enjoy the power of *TheSky Professional* edition, with the *Cameras+*, *Domes*, *TPoint*, and *Weather* modules. Additionally, the included *Multi-OS+* module lets you install TheSky on macOS™, Ubuntu™ Linux (ARM64), Ubuntu™ Linux (x86_64), and Windows™ operating systems.



Hardware Improvements and Enhancements

MYT and MX Increased Carrying Capacity

- The Paramount MYT Series 6 has larger internal bearings to provide exceptional stability for heavier payloads.
- The Paramount MX Series 6 has a larger declination axis that gives a direct and easy route to run cables through the mount with increased stability.

The Paramount ME Series 6 carrying capacity is unchanged.

Improved Versa-Plate™ Telescope Mounting Adapter

- Includes four integrated clamping knobs that securely captivate the telescope dovetail.
- Like the Paramount MYT, the Paramount MX Versa-Plate has slotted mounting holes to make finding the ideal balance point easier.
- The drop-in dovetail design makes attaching the telescope much simpler.
- The Instrument Panel can be mounted to either end of the Versa-Plate, placing the power connectors and pass-through Ethernet port close to your equipment.

Streamlined Instrument Panel: The redesigned lower-profile Instrument Panel includes three XT60 power connectors are capable of delivering up to 30A at 500V maximum power (15K W), an Ethernet port for mount control and ample room your custom through-the-mount USB 3 cables for USB 3-based CMOS cameras.

Updated Through the Mount Power Solution and Cabling: The base of the hour angle axis includes one XT60 power connector, one pass through Ethernet port, and one customizable keystone module that accepts low-voltage power jacks, CAT6 ports, USB ports and other connectors.

New Polar Axis Altitude Adjuster (Paramount MX Series 6 Only)

- The Paramount MX Series 6 incorporates the same step latching altitude adjustment mechanism found in the Paramount MYT. The adjuster makes large scale polar axis elevation adjustments more convenient.
- The polar axis can access latitudes between 0° and 70°. An optional wedge is available outside this range.

Relocated Axis Locking Knobs

- The altitude and azimuth locking knobs are now on the gear covers, with axis locking holes at 10-degree increments to make locking the axis during setup easier.
- The wider locking knob is easier to grasp and rotate.

Durable External Finish. The red components are powder coated for a durable, fade-resistant finish. The black components are anodized.

Spring-Captivated Power Input Port



The 48V DC power in port and the DC power supply connector are new. Together they provide greater physical contact and require a greater force to insert and remove the barrel from the port. While the MKS 5000 power in connector employed a *single spring* to captivate the barrel connector, MKS 6000 connector uses *six separate springs* to captivate the barrel connector. The barrel connector also has two clamping leads that offer a firm connection to the center tip. This means the force required to pull the plug out of the connector is many times greater than typical DC barrel connectors and ensures consistent electrical contact.

With this new connector, if the power supply cable ever becomes snagged, accidentally tripped over or otherwise tugged, the connector will safely separate from the input power port without causing damage.



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