

Mo-Sys B20 Remote Head

Precision 2-axis tech-less remote head

Key Features

- **Tech-less** - can be setup and used by a camera operator rather than a remote head specialist
- **2-axis Remote Head** - patented JAM drive motors provide instantaneous precision movement, with zero backlash and ultra-low noise
- **Single Sided 'L shape' Design** - easier access, and easier loading and unloading of camera rigs
- **High Payload** - 20Kg / 45lbs payload and 10kg / 22lbs weight
- **Cable Hole Through Drive Motor** - no slip rings required, minimises cable tangles, no custom cables required

The B20 Remote Head

There are several options for medium payload remote heads on the market today. However, with each remote head design there is always a balancing act between price, features, and movement.

Some designs regard price as the highest priority and as such these designs dictate using certain types of motors/gears (e.g. worm drive), with the result that the price is attractive, but the smoothness of movement can vary with temperature changes under heavier payloads. Other designs deliver an extended feature set, expanding the options where the remote head can be used, but come with a higher price.

Mo-Sys opted to design the B20 to deliver the smoothest possible camera moves, using techniques taken from the world of motion control, and focusing on precision movement, crisp acceleration, zero backlash, and ultra-low noise.

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the fastest growing market sector. It relies on seamless blending of real camera elements with virtual graphics, and so camera movement is critical. Any unencoded camera movement (e.g. excessive drive play, juddering, or backlash in the remote head) isn't tolerated because it results in obvious graphic slippage, breaking the virtual production illusion.

Both Pan and Tilt axes on the B20 are encoded, enabling the tracking data to be used live for virtual production, and/or to be recorded for downstream VFX compositing. Lens encoders can be added to extract focus and zoom tracking data, and a StarTracker camera tracking system can be added to extract 6-axis camera tracking data.

If your clients demand the best possible remote head movement for the smoothest camera movement, whether for regular shoots or increasingly for virtual production, then you need to choose the Mo-Sys B20.

B20 Options

For standard pan/tilt use



Panbar



Gateway /
Super Gateway



Touchscreen
Console



Button Console



Handwheels



TV Console

As an upgrade to Jimmy Jib

- B20 Jimmy Jib Control interface



For Broadcast use

- Shotbox



For Virtual Production use

- StarTracker



- Super Gateway
- VP Pro - Virtual Production Software

Technical Specifications

Weight	10 kg (22 lbs)
Payload	20 kg (45 lbs)
Pan/Tilt speed	120° /sec
Pan/Tilt range	±720
Max system bus length (operating distance)	100 m
Max operating distance with optional radio	300 m
Max operating distance with optical fiber bridge	20 km
Pan/Tilt control options	Hand-wheels, pan-bar, joystick, micro joystick
Power	15-32V (24V nom) 3A (nom) 20 Apk
Mains	With PSU 110V-200V

For more information



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