

D60 Robotic Rail Dolly System

D60 robotic rail dolly system adopts the latest mechanical and electronic technology, and comprehensively applies many advanced technologies such as lithium-ion power batteries, high-efficiency motors, optical fiber transmission, remote power supply and control systems to form a complete system with outstanding performance, stability and reliability. It can be used in many live productions. With its unique camera perspective, it provides impactful and immersive artistic expression means for various shows.

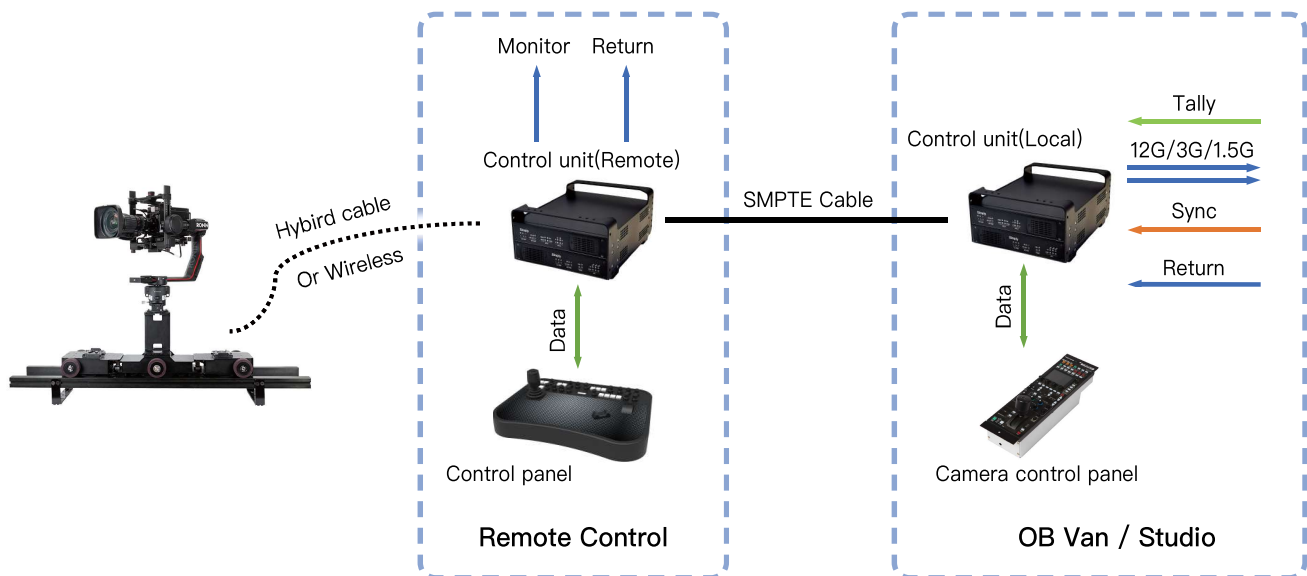
D60 robotic rail dolly system is easy and flexible to use, and the operation is fast and stable. It is suitable for various occasions such as news broadcasting, cultural conferences, sports competitions, film and television shooting, etc. Battery-powered with wireless remote control or wired power supply and control systems are available to suit Different production requirements.



Features

- Suitable for installation on the ground or from the ceiling, supports curved track even circular track, can be installed under the stage floor for interference-free shooting
- Three-section articulated dolly body with strong rigidity, equipped with anti-derailment mechanism and intelligent anti-collision device for safe and reliable operation
- Four-wheel drive system with fast response and quiet operation, the acceleration and deceleration curves can be adjusted independently, and there is no shaking when starting and stopping
- High-performance DC motor, the maximum speed can reach 5 m/s, supports cable or battery power supply
- High-quality lithium-ion power battery, built-in intelligent management chip, the charging and discharging process is safe and reliable
- DJI Ronin2 Incam special edition, adopts power supply and 4K signal full internal wiring method, supports unlimited continuous rotation in the horizontal direction
- The intelligent control panel has comprehensive functions and is easy to use. The control of the dolly, pan-tilt and camera lens can be completed by a single operator
- Abundant accessories, supporting long-distance power supply, signal transmission and remote control upon hybrid cable or wireless control, suitable for different production environments

System Configurations



Technical Specifications

Dolly

Dimension/Weight	Power consumption	Load capacity	Max speed	Control
750×300×120mm Approx. 20 kg	DC 28V, 50W (Typical) 400W (Max)	75 kg	5 m/s	RS-422, pedals

Track

Dimension	Material	Weight	Pieces	Curves
300×120mm (width / height)	Aluminum alloy	4 kg/m	Standard length 2m, customized possible	Minimum inner radius 0.9m

Remote head

Gimbal stabilizer	Load capacity	Runtime	Camera signal	
DJI Ronin2 Incam edition	14 kg	Approx. 2.5 hours (Ronin2 DC out)	12G/3G-SDI (BNC)	

Control Unit

Serial	Ethernet	Sync	GPIO	Video
RJ45 (x1), RS-422 (embedded tally)	RJ45 (x1), 1000BASE-TX	BNC (x1), Black burst (PAL/NTSC)	RJ45 (x1), 4 groups of tally	BNC (x2), with loop out and re-clocking

Video Characteristics

Video Format	Amplitude	Rising time	Falling Time	Jitter Timing/Align
12G-SDI	821mV	38ps	37ps	0.58UI/0.10UI
3G-SDI	820mV	56ps	52ps	0.12UI/0.05UI

Accessories

Battery	Cable powered	Wireless control	Optical transmission	
Lithium-ion power battery	Flexible hybrid cable	900MHz/2.4GHz, up to 1 km	12G-SDI video, BB sync and control	

Design and specification are subject to change without notice.