## **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

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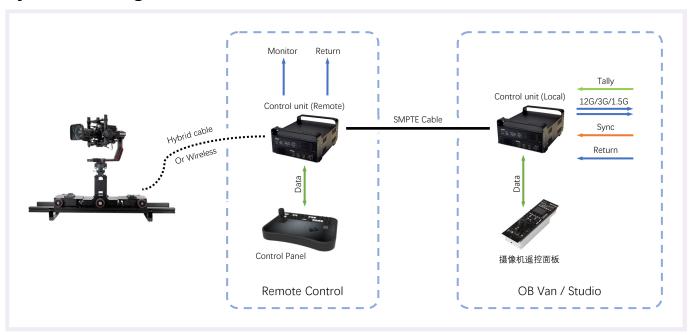








## **System Configurations**



## **Technical Specifications**

Dolly		
Dimension/Weight	750×300×120mm, Approx. 20 kg	
Power consumption	DC 28V, 50W (Typical), 400W (Max)	
Load capacity	75 kg	
Max speed	5 m/s	
Control	RS-422, Pedals	
Track		
Dimension	300×120mm (width/height)	
Material	Aluminum alloy	
Weight	4 kg/m	
Pieces	Standard length 2m, customized possible	
Curves	Minimum inner radius 0.9m	
Remote head		
Gimbal stabilizer	DJI Ronin2 Incam edition	
Load capacity	14 kg	
Runtime	Approx. 2.5 hours (Ronin2 DC out)	
Camera signal	12G/3G-SDI (BNC)	

Design and specification are subject to change without notice.

Control Unit			
Serial	RJ45 (×1), RS-422 (embedded tally)		
Ethernet	RJ45 (×1), 1000BASE-TX		
Sync	BNC (×1), Black burst (PAL/NTSC)		
GPIO	RJ45 (×1), 4 groups of tally		
Video	BNC (×2), with loop out and re-clocking		
Optical	SMPTE 304M (×1), LC (×1)		
Video Characteristics			
Format	12G-SDI	3G-SDI	
Amplitude	821mV	820mV	
Rising time	38ps	56ps	
Falling time	37ps	52ps	
Jitter Timing	0.58UI	0.12UI	
Jitter Align	0.10UI	0.05UI	
Accessories			
Battery	Lithium-ion power battery		
Cable powered	Flexible hybrid cable		
Wireless control	900MHz/2.4GHz, up to 1 km		
Optical transmission	12G-SDI video, BB sync and control		

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