

D30 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.

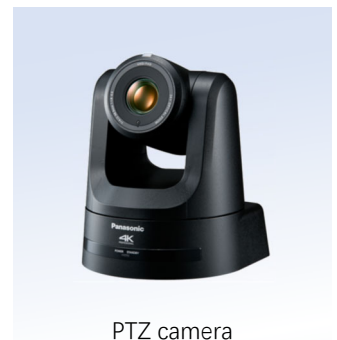
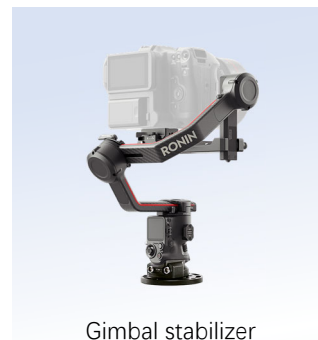
D30 robotic rail dolly system is easy and flexible to use, and the operation is fast and stable. It is suitable for various occasions such as news broadcasting, cultural conferences, sports competitions, film and television shooting, etc. Battery-powered with wireless remote control or wired power supply and control systems are available to suit different production requirements.



Features

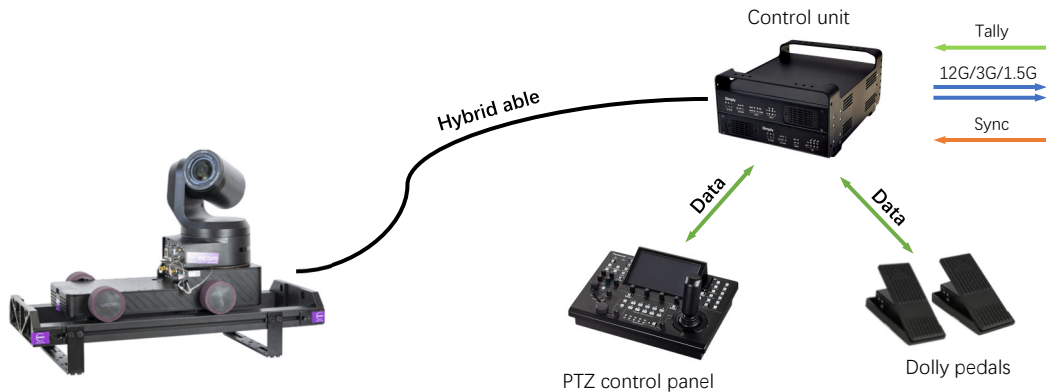
- ⦿ Compact structure design, dolly chassis is made of aviation-grade aluminum alloy, light weight and high rigidity
- ⦿ Integrated high-performance DC motor, fast response and energy saving, acceleration and deceleration curves can be adjusted independently, no jitter when starting and stopping
- ⦿ Precise transmission mechanism cooperates with advanced ultra-quiet motor drive system to run quietly and smoothly
- ⦿ Customized aluminum track is sturdy and durable, and can be installed on the ground or on the ceiling, straight rails and curved rails are available
- ⦿ High-quality lithium-ion power battery integrates intelligent management chip inside, the charging and discharging process is safe and reliable
- ⦿ Supports long-distance cable power supply, built-in high-performance power management system, can supply power to the carrying camera and pan/tilt head at the same time
- ⦿ High-precision positioning device can store multiple preset positions and support to trigger the PTZ camera operation
- ⦿ Control panel is easy to use, a single operator can control the rail dolly, pan-tilt head and camera at the same time
- ⦿ Support long-distance optical fiber power supply, signal transmission and wireless control, suitable for different production environments

Supported Devices

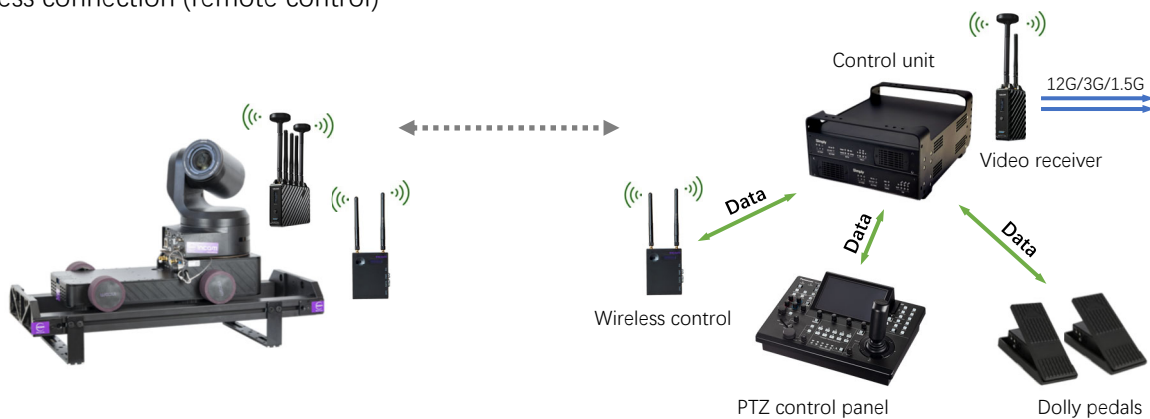


System Configurations

Wired connection (remote power supply and control)



Wireless connection (remote control)



Technical Specifications

Dolly	
Dimension/Weight	500×205×70mm, Approx. 8 kg
Power consumption	DC 28V, 25W (Typical), 400W (Max)
Load capacity	15 kg
Max speed	5 m/s
Control	RS-422, pedals
Track	Aviation grade aluminum alloy

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
Gimbal stabilizer	Three-axis stabilized gimbal, 4.5 kg load

Design and specification are subject to change without notice.

Control Unit	
Serial	RJ45 (×1), RS-422 (support tally embed)
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

INCAM Systems Co., Ltd.

Building B6, North Park, No.315 Xiqing Road, Yangliuqing Town, Xiqing District, Tianjin, China

