

D30

Robotic Rail Dolly System

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



INCAM micro camera



INCAM pan-tilt head



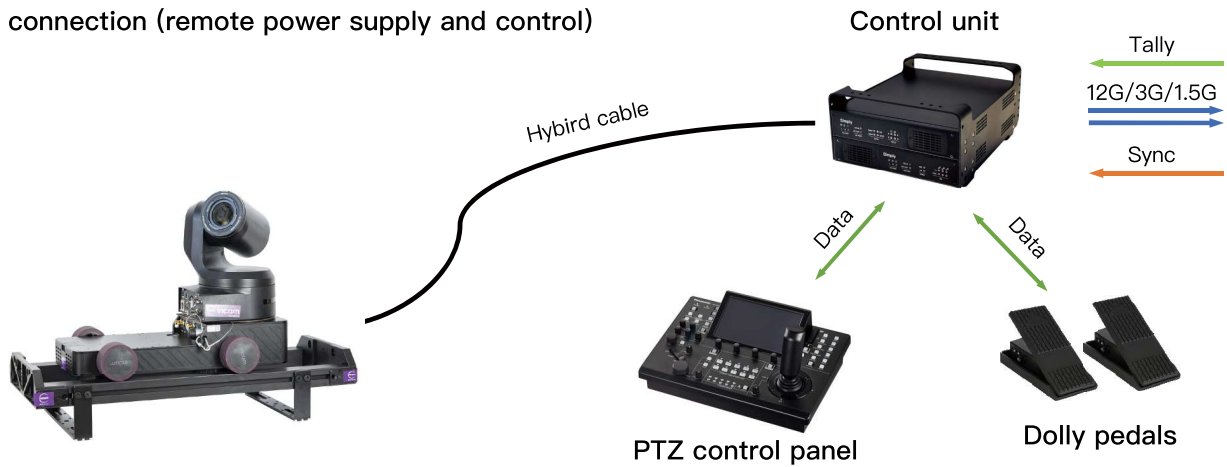
Gimbal stabilizer



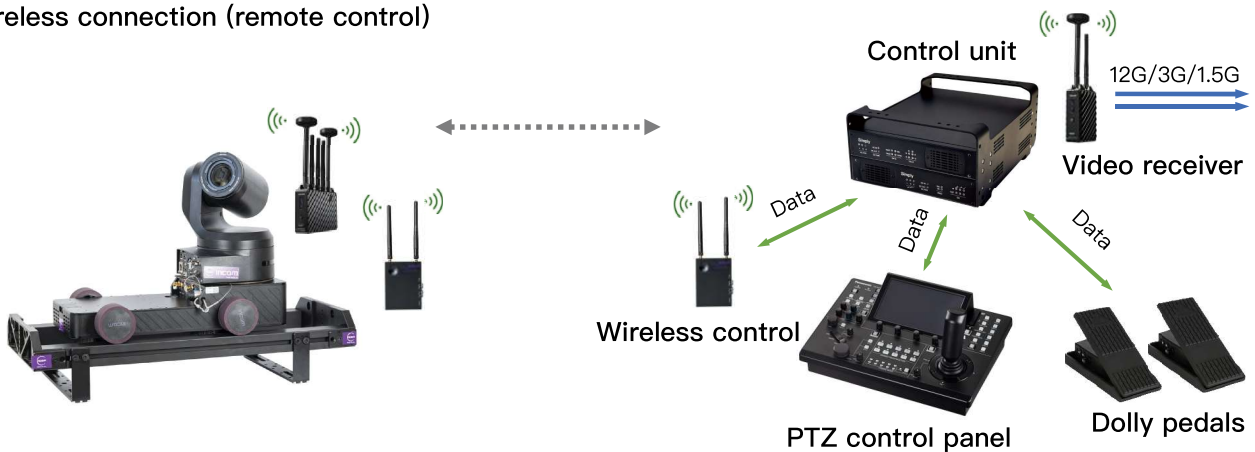
PTZ camera

System Configurations

Wired connection (remote power supply and control)



Wireless connection (remote control)



Technical Specifications

Dolly

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

Control Unit

Serial	Ethernet	Sync	GPIO	Video
RJ45 (x1), RS-422 (support tally embed)	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	Gimbal stabilizer
Lithium-ion power battery	Flexible hybrid cable	900MHz/2.4GHz, up to 1 km	12G-SDI video, BB sync and control	Three-axis stabilized gimbal, 4.5 kg load

Design and specification are subject to change without notice.