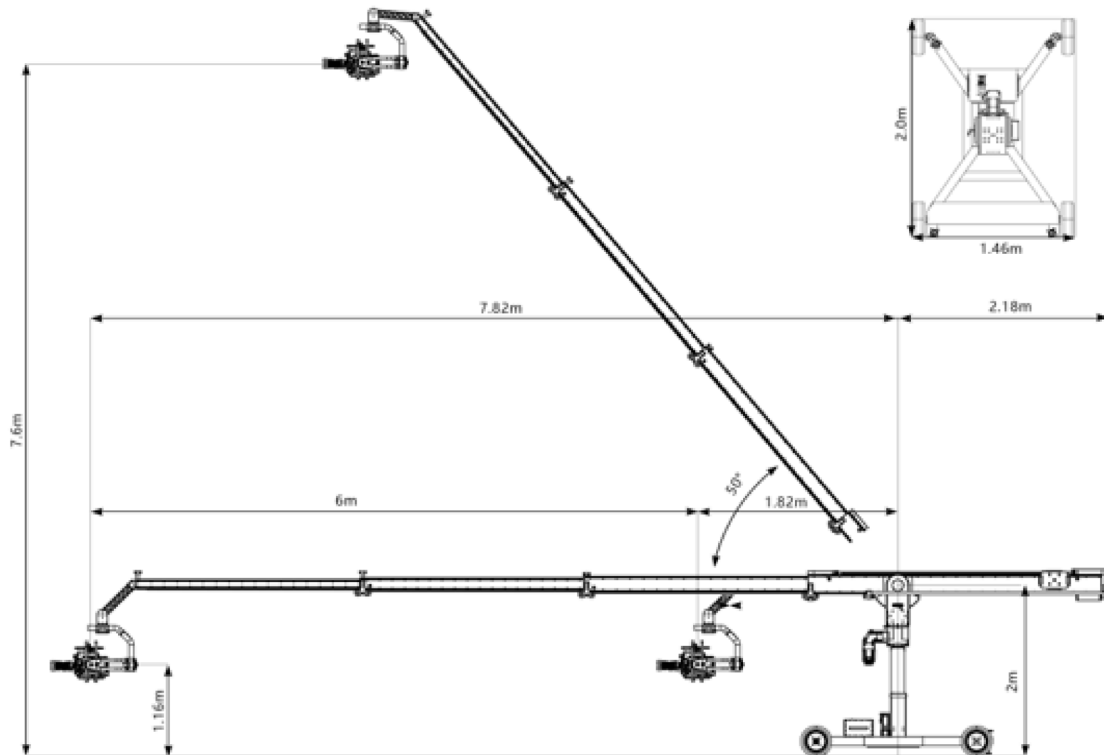


RB15TS-10M

Robotic Telescopic Crane System



The SEEDER RB15TS-10M features a U-type or 3-axis robotic pan-tilt head and supports fully automated, intelligent camera movement. Designed for professional broadcast-level production, it is ideal for real-scene and virtual production (AR, VR, XR, MR) in studios or live event environments. With a telescopic jib length of 4.0 m–10.0 m, the system automatically adjusts to the shooting environment. Shake-free start/stop motion ensures every frame is broadcast-ready, while built-in telephoto anti-shake provides stability for long-lens shots. The modular system is easy to assemble and disassemble. Absolute encoders, ready at startup, no calibration required — ideal for studios and live events.



Applications

1. Professional-grade crane operation, no manual handling.
2. Standardizes open/close shots for news and feature programs.
3. Delivers highly accurate image synchronization for AR/VR productions.
4. Provides professional tracking data for large-scale real-virtual productions.
5. Supports OB van and large studio automated camera positions.
6. Delivers effective telephoto stabilization for UHD shooting.
7. Reduces operator error during critical live events.
8. Enables smooth remote operation over IP networks.

Basic Functions		
Built-in System	Built-in OS with integrated 7-inch touchscreen panel for standalone operation without an external control panel	
Motion Range	9-axis motion: Pan/Tilt/Roll (head), Pan/Tilt/Telescopic (arm), Zoom/Focus/Iris (lens)	
Robotic Head	U-type / 3-axis robotic pan-tilt head	
Start/Stop Anti-shake	Shake-free image during fast start/stop	
Acceleration/deceleration	Automatic acceleration/deceleration based on motion position and duration; smooth 16-point curved motion	
Position Memory	Permanent storage of preset motion and tracking positions	
Motion Path	Automatic motion path planning	
Total Jib Arm Length	10 m	
Front Arm / Rear Arm	1.82 m-7.82 m / 2.18 m	
Telescopic Jib Arm Length	4.0 m–10.0 m, automatic extension/retraction	
Camera Telescopic Travel	6.0 m	
Max Camera Height	Camera height up to 7.6 m	
Lens Control	20-pin lens cable with automatic compatibility for Canon/Fujinon full-servo lenses; optional M2 lens servo	
Tracking shoot	Pan-tilt head automatically tracks the primary subject	
Safety Limits	Robotic head: Pan / Tilt; Arm: Left/Right, Up/Down, Front/Back — 10 direction protection	
Anti-collision	Four-side optical anti-collision + dynamic anti-collision	
Emergency Stop	Two buttons — crane power and motion	
Scene Sequence Combination	Motion triggering at any point in sequences and scenes; free sequence combination	
Flexible Motion Control	Motion interruption with target switching; manual/auto pause; adjustable dwell time	
Loop Timing Control	Seamless continuous looping; independent loop/reverse settings for each sequence; high-precision countdown timer	
Advanced Tracking Capability	HDSDI input; CPU-based face tracking; reduced hardware dependency; improved shooting performance	
Collaborative Control	Multi-console coordinated control with priority management	
VR Tracking Specifications		
Electronic Leveling	Dual electronic leveling system for head and base	
Virtual Tracking Accuracy	23-bit absolute encoder; 8.3M/360°; <0.000043°	
Tracking Sync	Supports BB and 3G/1.5G/SD-SDI reference input with loop-through and internal sync	
Lens Delay	Auto-calibration for full servo lenses	
Virtual Tracking Calibration	Motion compensation based on virtual tracking errors	
Tracking Output	3-way directional UDP output supported	
Movement Specifications		
Head Pan	±355°, 0–25°/s, accuracy 0.001mm	
Head Tilt	±355°, 0–25°/s, accuracy 0.001mm	
Head Roll	±355°, 0–25°/s, accuracy 0.001mm	
Arm Pan	±355°, 0–25°/s, accuracy 0.001mm	
Arm Tilt	±50°, 0–25°/s, accuracy 0.001mm	
Telescopic Travel & Speed	Range 6.0m; speed 1.5m/s 0.001mm	
Lens Motion	For full-servo lenses; 0–52 mm/s, accuracy 0.001 mm	
Basic Specifications		
Third-Party Control	Free standard TCP/IP control protocol	
Scene backup	Scene file import/export/backup	
Operation monitoring	Long-term system log recording and storage	
Operating Noise	<50 dB	
Motion Storage	32 programs × 16 sequences × 16 scenes = 8192 scenes	
Keyframes per sequence	16, supporting 16-point curvilinear motion	
Head Payload	15 kg	
Total Weight	800 kg (with counterweights)	
Input Voltage	220V	
Max Power	1000W	
Configuration list		
1. Robotic U-Type or 3-Axis Omni-Directional Pan-Tilt Head – 1 set (Note: Virtual tracking output is not supported if the optional 3-axis pan-tilt head is selected.)		
2. 4.0 m–10.0 m telescopic jib – 1 set		
3. Robotic jib telescopic base – 1 set		
4. Control cables – 1 set		
Optional Feature	Model	Description
Tracking Output	RBVR	Directional UDP 3-channel tracking output supported
AI Auto Tracking	RBAI	HDSDI input from the primary camera with AI face and skeletal tracking for low-latency automatic camera tracking
Control panel	RBCS300、RBCS300PRO、RBCS1	RB Series control panel
Scene Composition Snapshots	RBCS300PRO	Supports scene preset composition snapshot capture
Manual Control Module	RBMC1	Manual control handle supporting motion path learning and recording

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Ordering Information

Product Model	Product Name
RB15TS-10M	Robotic Telescopic Crane