

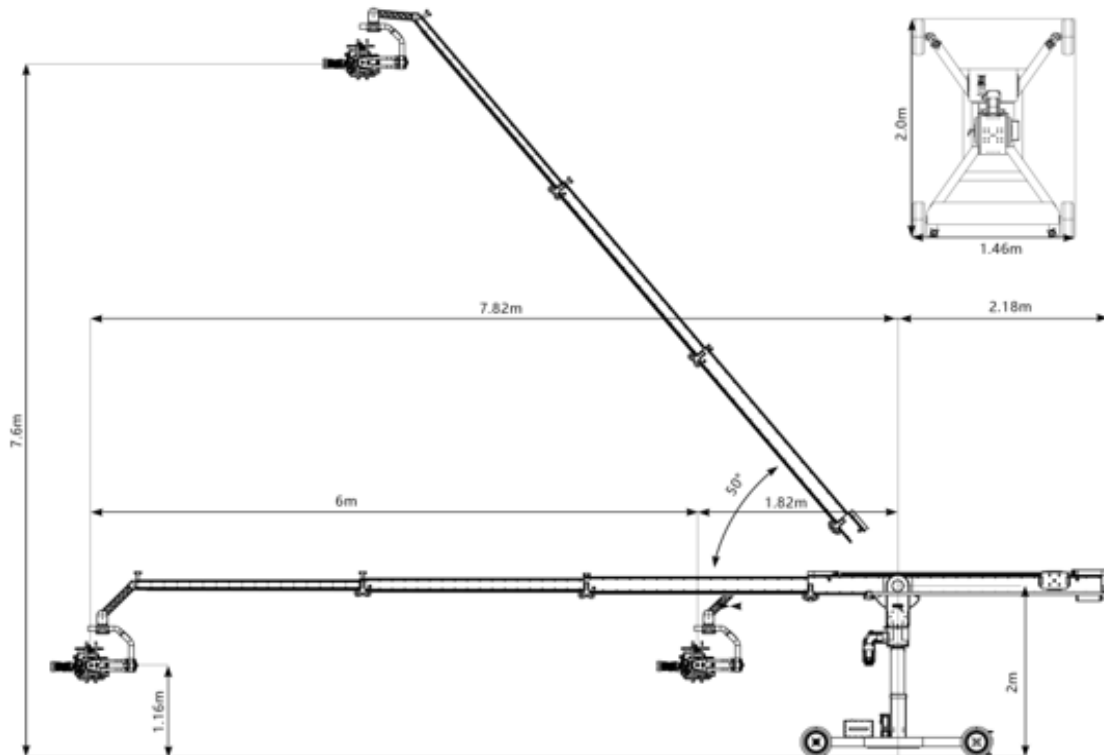


RB15TS-10M

Robotic Telescopic Crane System

The SEEDER RB15TS-10M robotic telescopic crane system adopts a U-shaped or 3-axis robotic pan-tilt head for automated shooting. It is a broadcast-grade automated camera assist system for film and television pre-production, applicable to real-scene and AR/VR/XR/MR virtual production in studios and live events.

The telescopic jib ranges from 4.0 m to 10.0 m and automatically adjusts length according to site conditions. Modular design facilitates quick assembly and disassembly. Powered by 90–264 V AC with max. power of 1000 W. Absolute encoders record position and tracking data with no startup calibration, ideal for studios and live broadcast.



Applications

1. Automates camera crane operation
2. Standardizes opening and closing shots for news & feature programmes
3. Ensures high precision for combined live-action & virtual production
4. Provides professional tracking data for virtual production at large live events
5. Enables automated camera positions in OB vans & large studios
6. Provides telephoto image stabilization for UHD camera operation
7. Minimizes human shooting errors for high-profile live productions
8. Enables smooth remote camera motion over the network

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-shaped or 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 trigger at any point within sequences & scenes; freely combinable sequences for flexible operation	
Flexible Motion Control	Motion interruption with target switching; manual/auto pause; adjustable dwell time	
Loop Timing Control	Seamless continuous looping; per-sequence independent loop/reverse settings; high-precision countdown timer	
Advanced Tracking Capability	HD-SDI input; CPU-based face tracking; reduced hardware dependency; improved shooting performance	
Safe 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	90-264V	
Max Power	1000W	
Configuration list		
1. U-shaped or 3-axis robotic pan and 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 arm ×1 set		
3. Robotic crane 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 System