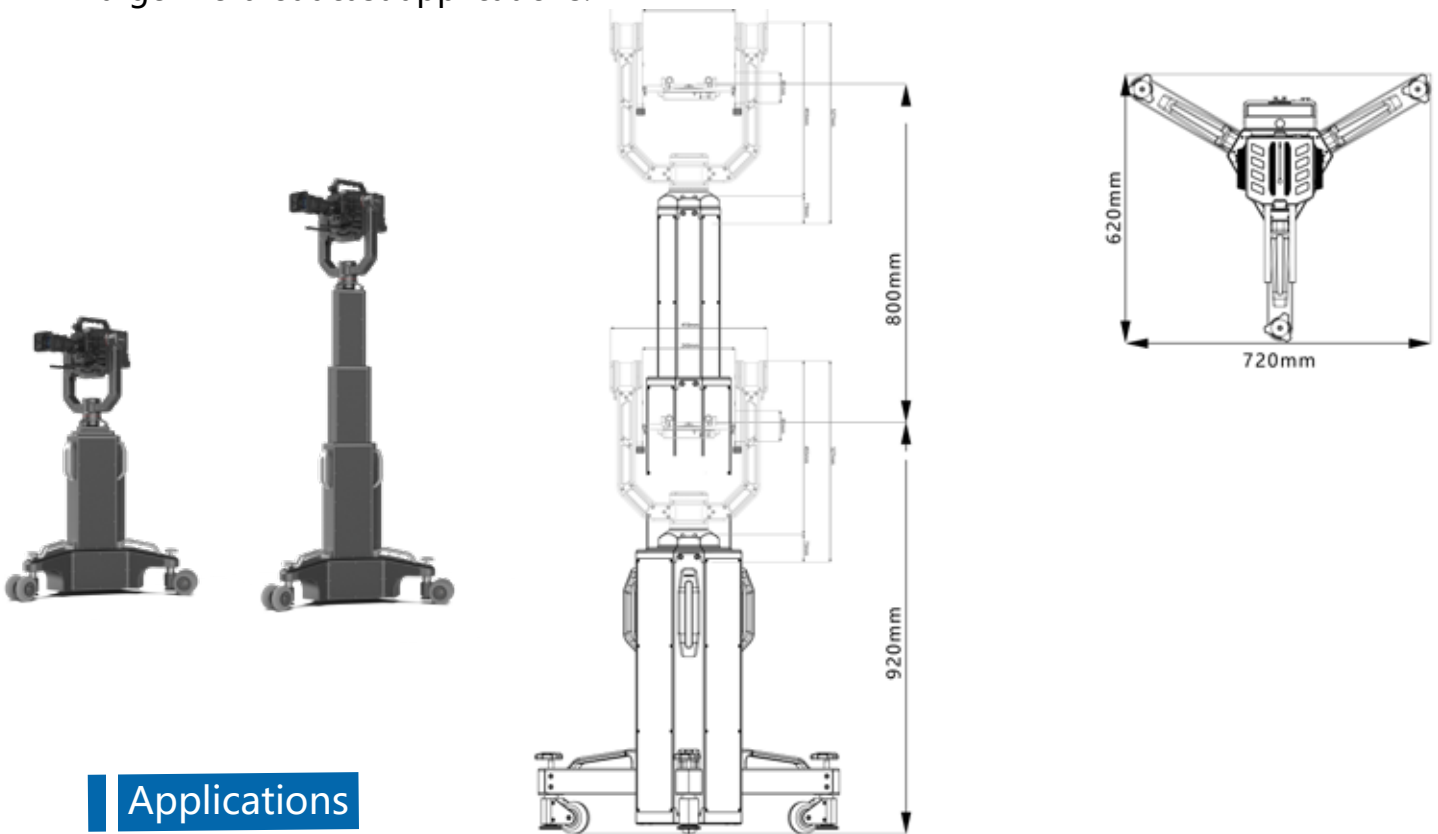


RB30(18/12)EH4

Robotic Elevating Pan and Tilt Head System

The SEEDER RB30(18/12)EH4 robotic elevating pan and tilt head system adopts a U-shaped robotic pan/tilt head for automated camera shooting. It is a broadcast-grade auxiliary camera system for pre-production, suitable for real-scene and AR/VR/XR/MR virtual production in studios and live events. The system delivers anti-shake performance during rapid start-stop movements to ensure usable footage. Its operating noise is ≤ 30 dB at ≤ 200 mm/s and ≤ 45 dB at ≤ 400 mm/s, meeting the acoustic standards for studio live shooting. Absolute encoders record motion position and tracking data; the unit is ready for operation immediately after power-up with no initialization calibration required, making it ideal for studio and large live broadcast applications.



Applications

1. Enables Automated Camera 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	Embedded OS; standalone operation without an external control panel	
Motion Axes	6-axis motion: Head Pan/Tilt; Column Lift; Zoom / Focus / Iris	
Robotic Head	U-shaped Robotic Head	
Start/Stop Anti-shake	Anti-shake for rapid 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	
Max Camera Height	1720 mm	
Min Camera Height	920 mm	
Camera Vertical Travel	800 mm	
Auto Tracking	Pan-tilt head automatically tracks the primary subject	
Safety Limits	Head Pan/Tilt; Column Lift — 6-direction safety limits	
Emergency Stop	Dual buttons for power and motion (control panel)	
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	Column base electronic leveling system	
VR tracking accuracy	23-bit absolute encoder; 8.3M/360°; <0.000043°	
Lens delay	Auto calibration for full-servo lenses	
Tracking sync	Supports BB and 3G/1.5G/SD-SDI reference input with loop-through and internal sync	
Virtual tracking calibration	Motion-compensation calibration based on virtual tracking error values	
Tracking Output	3-way directional UDP output supported	
Movement Specifications		
Head Pan	±170°, 0–20°/s, accuracy 0.001°	
Head Tilt	±55°, 0–20°/s, accuracy 0.001°	
Elevation motion	1-400mm/s, accuracy 0.001°	
Lens Motion	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	≤30dB (≤200mm/s) , ≤45dB (≤400mm/s)	
Motion Storage	32 programs × 16 sequences × 16 scenes = 8192 scenes	
Keyframes per Sequence	16, supporting 16-point curvilinear motion	
Head Payload	30(18/12) kg	
Total Weight	54 kg	
Input Voltage	220 V	
Max. Power Consumption	300 W	
Configuration list		
1. U-shaped omnidirectional robotic pan and tilt head ×1 set		
2. Robotic silent elevating platform ×1 set		
3. 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

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Ordering Information

Product Model	Product Name
RB30(18/12)EH4	Robotic Elevating Pan and Tilt Head System