

SV-EDR

Explosion-proof Robot

English technical reference prepared from the Chinese product document. Legacy contact details have been removed. Numeric values marked [verify] require confirmation before ordering or operation.

****Product Manual****

****Product Model: SV-EDR Explosion-proof Robot****

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****SV-EDR Explosion-proof Robot – Basic Parameters****

- ****Storage Dimensions:**** 660 mm (H) × 700 mm (W) × 898 mm (L)
- ****Operating Dimensions:**** 660 mm (H) × 700 mm (W) × 1103 mm (L)
- ****Maximum Working Height:**** 1510 mm
- ****Maximum Extended Body Length:**** 2100 mm
- ****Chassis Weight:**** 80 kg (including battery; battery is quick-release; weight varies with configuration)
- ****Maximum Speed:**** 8 km/h
- ****Maximum Payload:**** 80 kg
- ****Maximum Power:**** 2 × 400 W
- ****Manipulator:**** 7 degrees of freedom; maximum extended lift capacity: 5 kg
- ****Cameras:**** One 30x zoom 1080P HD camera; three 720P HD cameras
- ****Battery Specification:**** 24V 40Ah
- ****Wireless Video Transmission Range:**** 500 m [verify]
- ****Turning Radius:**** Zero-turn (pivot in place)
- ****Obstacle Climbing Capability:**** 180 mm obstacles; stairs [verify]
- ****Operating Time:**** 3 hours (cruising)
- ****Wrist Rotation Angle:**** –120° to +150°
- ****Terrain Adaptability:**** Suitable for grass, sand, snow, gravel, mudflats, etc.
- ****Slope Capability:**** 40° [verify]
- ****Protection Rating:**** IP65
- ****Chassis Ground Clearance:**** 138 mm (lowest point)

- **Effective Swing Arm Length:** 1200 mm
- **Effective Swing Arm Angle:** 0° to +360° continuous rotation
- **Manipulator Degrees of Freedom:** 7
- **Maximum Arm Span:** 1200 mm
- **Arm Base Rotation Angle:** 360°
- **Upper Arm Pitch Angle:** -35° to +160°
- **Forearm Pitch Angle:** -120° to +150°

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- **Gripper Jaw Opening Width:** 0–160 mm [verify]
- **Pan/Tilt Pitch Angle:** -30° to +90°
- **Pan/Tilt Rotation Angle:** 0° to +360° continuous rotation
- **Driving Camera Pan/Tilt:** Fixed field of view: 170°

Please read this manual carefully before using the product. By using this product, you acknowledge and accept all terms of this disclaimer.

This product is intended for use by persons aged 18 years and older. When the power supply is normal and connections are correct, it can provide an excellent flight experience. When adjusting parameters or performing firmware upgrades on this aircraft system, we strongly recommend removing the propellers and ensuring normal power supply and correct wiring of relevant functional modules. Always operate away from people, hazardous objects, and fragile items. Shuangjie Technology shall not be liable for any personal injury or property damage caused directly or indirectly by the following:

1. Failure to assemble and use the product according to this manual.

- Operating the aircraft while under the influence of alcohol, drugs, fatigue, or in poor physical/mental condition.

3. Intentionally or deliberately operating the aircraft to cause harm.

- Disassembling the product or modifying it with non-Shuangjie accessories, rendering it inoperable.

5. Operational errors or misjudgment.

6. Damage caused by natural wear, circuit aging, or abnormal operation.

7. Operating the aircraft while knowing it is in an abnormal working condition.

8. Operating the aircraft in severe weather such as typhoons, hail, or heavy fog.

9. Flying in areas with magnetic interference, radio interference, or government no-fly zones.

10. Flying in poor visibility or when line of sight is obstructed.

11. Infringement caused by data or image material obtained while operating the aircraft.

12. Other losses not within Shuangjie Technology's liability.

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Business enquiries

Product selection · Project enquiries · Technical support

SV-EDR



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