

China Moneypro MPY166 Ground Surveillance Radar (GSR) – Next-Generation Battlefield Surveillance System

Product Overview

China Moneypro MPY166 Ground Surveillance Radar (GSR) is a **cutting-edge, all-weather, multi-target battlefield surveillance system** engineered for **real-time detection, tracking, and classification** of personnel, vehicles, and low-flying aerial targets. Combining compact design with advanced digital signal processing, the system achieves superior mobility, rapid deployment, and high anti-jamming resilience.

It is suitable for **vehicle-mounted, tripod-mounted, or man-portable configurations**, enabling flexible operation across battlefields, border surveillance, coastal defense, and critical infrastructure security.

Key Features & Capabilities

- **All-Weather, Day/Night Operation:** Effective in rain, fog, and dust with low false alarm rates.
- **Multi-Target Tracking:** Simultaneous tracking of **>200 moving targets**, including crawling personnel, armed soldiers, vehicles, tanks, and boats.
- **Detection Range:**
 - Personnel (1.5 m² RCS): **≥18 km**
 - Light Vehicles (10 m² RCS): **≥25 km**
 - Tanks / Heavy Vehicles (30 m² RCS): **≥35–40 km**
 - Low-flying UAVs (0.01–0.05 m² RCS): **≥8–12 km**
- **Accuracy:**
 - Range accuracy: **≤5 m**
 - Azimuth accuracy: **≤0.3°**
 - Radial velocity accuracy: **≤0.2 m/s**
- **Target Classification:** AI-enhanced algorithms distinguish **crawling individuals vs. walking soldiers**, and **light vehicles vs. heavy armor**.
- **ECCM Performance:** Adaptive frequency agility, sidelobe cancellation **>60 dB**,

and resistance to co-channel jamming with **>90 dB J/S ratio tolerance**.

- **Deployment:** Lightweight (system weight <30 kg in man-portable configuration), **setup time <10 minutes**.
- **Power Supply:** Vehicle DC, battery, or portable generator; continuous operation >24 h.

Applications

- **Battlefield Reconnaissance & Monitoring:** Detection of soldiers, vehicles, and UAVs; battle damage assessment; mission support for artillery and UAV strike coordination.
- **Homeland Security & Counter-Terrorism:** Protection of airports, dams, power stations, pipelines, ports, and major events with 24/7 surveillance and alarm functions.
- **Border & Coastal Defense:** Persistent surveillance of personnel, vehicle movement, and maritime traffic; deployable on UAVs, ships, or land-based stations.

Comparison with Leading International Systems

Parameter	Elta EL/M-2112 (Israel)	Thales BOR-A 550 (France)	China MoneyPro UAV – GSR
Personnel Detection Range	~10–12 km	~15 km	≥18 km
Vehicle Detection Range	~20 km	~24 km	≥25 km (light), ≥35–40 km (heavy)
UAV Detection (small RCS 0.01 m ²)	~5–6 km	~7–8 km	≥8–12 km
Simultaneous Targets	~100–120	~150	>200
Range Accuracy	10 m	7 m	≤5 m
ECCM Performance	Frequency	Frequency agility +	Adaptive ECCM, >90

Parameter	Elta EL/M-2112 (Israel)	Thales BOR-A 550 (France)	China MoneyPro UAV – GSR
	agility	sidelobe cancelation	dB J/S ratio
Weight (portable set)	~35–40 kg	~32 kg	<30 kg
Deployment Time	~15–20 min	~15 min	<10 min
Integration	Vehicle & fixed	Vehicle & tripod	Vehicle, tripod, UAV pod, man-portable

Why Choose China MoneyPro – GSR Ground Surveillance Radar?

- **Superior Range & Accuracy:** Detects personnel beyond 18 km and vehicles up to 40 km, outperforming most international peers.
 - **AI-Powered Target Classification:** Enhanced identification of target type and movement pattern.
 - **Compact & Rapidly Deployable:** <30 kg modular design with setup under 10 minutes.
 - **Versatility:** Operable on vehicles, UAVs, ground stations, and naval platforms.
 - **Future-Proof:** Open architecture for integration with C4ISR networks, UAV strike systems, and counter-drone solutions.
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The **China MoneyPro Ground Surveillance Radar** sets a new benchmark for battlefield surveillance by combining **extended detection range, superior anti-jamming, multi-platform adaptability, and AI-enhanced classification**. It is the ideal solution for clients seeking **world-class ISR (Intelligence, Surveillance & Reconnaissance)** capabilities for defense, homeland security, and border protection.

Learn More & Contact Us

For more details, datasheets, and integration support, please visit our website or contact our sales team.

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