

# **C4i** *communication*

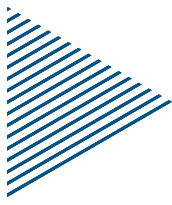
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## **C4i Mini SAR/MTI Radar**



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C4iMini SAR/MTI radar is an advanced miniaturized and lightweight intelligence reconnaissance and surveillance radar, which can be equipped on all kinds of UAV or drones, real-time acquisition of SAR images, ground moving targets, surface ship targets and other information under all-weather/all-weather conditions. The radar uses advanced design technology to optimize detection performance while greatly reducing weight, volume and power consumption.



## PRODUCT FUNCTION

### Strip SAR Images

It can be used to detect stationary targets in large area.

### Focus SAR Images

It can be used for high resolution fine detection of stationary targets in designated areas on the ground.

### GMTI

It can be used to detect and track large range of ground moving targets.

### Wide sea surface search

It can be used to search and track ship targets in a wide range of sea surface.

### Autosave

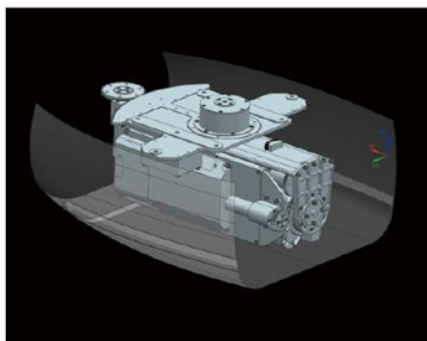
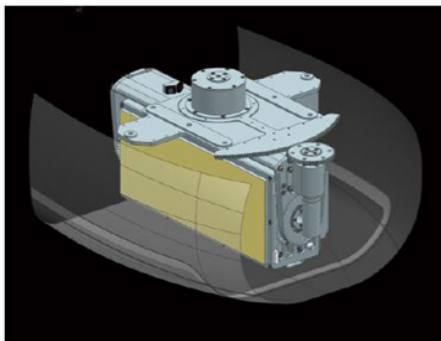
With its own data recording module, image data and original data real-time recording ability.

### real-time measurement

Optional inertial measurement equipment, with real-time measurement of aircraft motion parameters.

## SYSTEM STRUCTURES

The function modules of radar such as transmitting, receiving/excitation, signal/several, servo/antenna, storage and inertial navigation are highly integrated in one LRU, which has good adaptability to installation.



## TECHNICAL DATE

Product Type		C4i Mini SAR/MTI Radar
Power consumption		< 150 W @ 28 VDC
Weight		< 5 Kg
Size		antenna aperture 253mm×100mm (If the installation space allows, the antenna diameter can be increased to improve the detection performance)
Temperature		-30 ° C ~ +50 ° C
Maximum service height		< 5000m
Operating frequency		X/Ku (Optional)
Radar polarization mode		Horizontal or vertical options
Azimuth scanning range		-90°±30°and +90°±30° (Depending on the installed space, the range can be extended to 360°)
SAR Imaging resolution		0.3m/0.5m/1.0m/3.0m options
Imaging ability		Real-time imaging on board, maximum output pixel up to 8K×8K
GMTI ability	Minimum detectable radial velocity	15km/h (Vehicle speed >00km/h)
	Detection Range	<12km (Target RCS <20m2)
Wide sea surface search ability	target RCS <3000m2	<30km (target RCS <3000m2)
	target RCS <100m2	<15km (target RCS <100m2)
Data storage capacity		<2TB

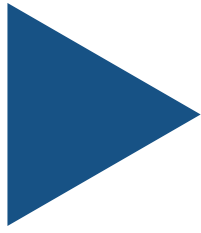
## SAR IMAGES



VV polarization SAR image  
(resolution 0.5m)



VH polarization SAR image  
(resolution 0.5m)



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