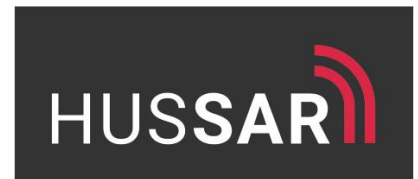


# HUSSAR by SpaceForest

Portable X-Band Radar (SAR)



Range up to 10 km

Operating on Strip SAR mode

Antenna with gimbal stabilization

Onboard real-time SAR processor

Ground base post-processing station

Linear polarization

FMCW radar (LPI - low probability interception)



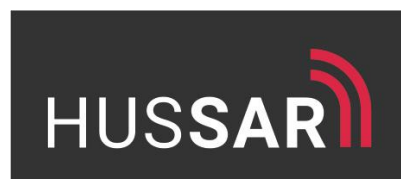
**HUSSAR** portable X-band radar (SAR), which can be attached to an unmanned aircraft, allows terrain scanning and motion detection using electromagnetic waves with a resolution of up to 15 cm.

The radar can be used for surveillance of security areas, for example by border guards, police and firefighters, to detect and track suspicious and unauthorized drones and vehicles, but also in surveying, mapping and land monitoring.



# HUSSAR by SpaceForest

## Portable X-Band Radar (SAR)



Parameter	Minimal	Typical	Maximal	Unit
Frequency range	9		11	GHz
Antenna polarization		V/V		
Range (radar to target)	150		10000*	m
Max altitude			5000	m
Finest range resolution		30	15	cm
Finest range cross-resolution			30	cm
Elevation angle of the beam	25		65	°
Supply voltage	36		52	V
Supply power			180	W
Antenna stabilization in azimuth (mechanical)	-20		20	°
Weight			10	kg
Temperature range	-10		50	°C
Dimension (LxWxH)	120 x 20 x 20			cm
Digital control interface	Ethernet			
Data storage interface	USB			
Housing material	Kevlar-reinforced composite			
Image / video stream files extension	JPEG / MPEG			
Mechanical mounting interface	Customizable according to client requirements			
Operation modes	Stripmap, Spotlight, GMTI			

\*in good weather conditions / specifications subject to change without notice

Radar solution developed and offered  
in partnership with XY Sensing



**SpaceForest**  
innovative solutions

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