

GD-200X Ground Surveillance Radar (GSR)



		
100°	15W	20°
Azimuth Coverage	Power Consumption	Elevation Coverage
		
Up to 1000m	<20m	<3Kg
Detection Range	Range Resolution	Weight

[Key features]

■ Easy to carry and deploy in battlefield or any others ■ Easy to built the surveillance network by standard interface ■ Up to 1000m in day and night at all weather conditions ■ Small size, low weight and low power consumption ■ Wide usable area in army barracks, police check points for surveillance, border control and VIP protection etc...

■ **[Mission]**-The GD-200X Manpack Ground Surveillance Radar detects ground targets (including tank, armored fighting vehicles, personnel) and measures coordinates (range, azimuth) in any season, including poor visibility conditions. Manpack Surveillance and Target Acquisition Radar is a highly versatile low-power, high-performance ground surveillance radar. The Manpack radar provides wide-area surveillance to a maximum range of 1000m, day or night and in all weather conditions. This system can be carried by only one persons, and put into action in less than 3 minutes. This radar can be installed at army barracks, police checkpoints for surveillance and operation, border control as well as schools for security and protection ■ **[Concept of Operation]**-Targets are classified automatically using target classification in terms of Doppler effectiveness, with output Doppler return being channeled to the operator. ■ **[Operating Principle]**-The radar detects

and tracks several kinds of ground targets including a crawling person as well as vehicles in a high probability with a sophisticated device and signal processing technology such as LFM impulse compress, range side removing, frequency-agile, FFT filter group process, solid transmit technology. The target reflection signal into the antenna is input to RF front-end with SAW filter through the circulator. The target signal of intermediate frequency mixed with the local oscillation signal that comes from the local oscillation unit through the SAW filter and the limited amplifier. The digital target signal converted in the signal processing unit is processed, so the final target information (range, azimuth) is obtained. On the display, an operator simultaneously tracks the locus of several targets. And it identifies the kind of selected targets.

General Specifications

Frequency	X-band (8-12GHz)
Detection Range	Pedestrian <500m, Vehicle <1km
Minimum Range	15m
Moving Target Speed	0.5~30m/s(2~100Km/h)
Resolution	Range <20m, Azimuth <2.5deg
Antenna Search Angle	100°
Power Consumption	DC10V~DC14V, <15W
Set-up/Tear-Down Time	3 minutes
Weight	3kg
Size	320x245x50mm (WxHxD)
Operating Temperature	-30°C~+60°C
Storage Temperature	-50°C~+70°C
Humidity	98%
Vibration	MIL-STD-810E
Shock	MIL-STD-810E



Nº	DESCRIPTION	MODEL	PICTURE	UNIT	QTY
1	Ground Surveillance Radar Body Radar Body with Antenna. Size 320x245x50mm, 3kg	GD-200X		Pc	1
2	Tripod Standard Tripod for Video Camera, Max. load 10Kg. It is foldable for small size , and light weight	A200X-TP01		Pc	1
3	Remote Control & Display Unit (Rugged PC) Operating System: Windows 10, Rugged PC, 8GB+512GB, 10" Display, Keyboard	Panasonic/Getac		Pc	1
4	Ethernet Cable This cable is the Ethernet cable to connect GSR and PC Ethernet port or Ethernet Hub.	A200X-EC03		Pc	1
5	Battery Pack The Li-Ion battery is a very high-capacity, rechargeable, Li-Ion battery for the GD200X GSR. Use with Glocom A8100-BC2B/4B/6B battery charger system.	BB-2290/U		Pc	1
6	Battery Charger This is 1 bay battery charger for BB-2590/U. The BB-2590/U battery can be connected, and disconnected from any channel during processing.	A8100-BC1B		Pc	1
7	Setup and Application Bundle It is software bundles to setup and operate the GD-200X Ground Surveillance Radar System which is developed by Glocom.	A200X-SA01		Copy	1



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