

# Ground Surveillance Radar

## GR40



Incorporating BATS vast experience in surveillance radars and utilizing modern radar technologies, the GR40 is easily deployed, user-friendly, reliable and cost-effective. The radar operates 24 hours a day, even under poor weather and low visibility conditions. By utilizing the radar information you maximize the efficiency of your military and law enforcement units, because BATS Advanced Ground Surveillance Radar puts you in control.

The radar is also capable of supporting artillery fire correction by detection of the impact location of shells. The GR40 automatically detects moving targets, such as walking persons, vehicles and flying objects (low flying aircraft, hovering helicopters and gliders) at ranges of up to 60 km.

BATS GR40 is a coherent Pulse Compression, ground-based radar for military and paramilitary applications.

This radar belongs to BATS family of tactical radars that detect and monitor movements inside areas of interest.

Higher ranges are available by addition of power amplifier and by increasing antenna size.

### Features

- Real-time, accurate detection and acquisition of moving targets up to 60 km and 360°
- Detection of ground target, maritime, helicopters and shells impacts
- High resolution, colored, north oriented, clear radar picture on ruggedized portable colors PC display
- Target display on digital map
- Mode of operation: search, sector, zoom artillery and enhanced track-while-scan & automatic tracking
- Standard interface to other sensors such as electro-optic, plotter, printer, GPS and C4I center
- Extensive Bit - down to each function
- ECCM - Low probability of interception and pulse compression technique

### Applications

- Border surveillance and protection
- Critical infrastructure protection
- Harbor surveillance
- Field artillery fire correction

### Specifications

Frequency band :	X-Band
Antenna :	120cm x 45cm, 34dB gain
Transmitted peak power (Tx) :	25w
Processing :	FFT, CFAR, TWS
Weight :	65kg (approx.)
Power consumption :	110w (@18 – 30VDC)

<b>Detection range</b>	<b>Surveillance Mode</b>	<b>Artillery Mode</b>
Pedestrian	15km	-
Helicopter	25km	-
Heavy vehicle	60km	-
Artillery Shell impact	-	>15km
Range accuracy	50m	25m
Azimuth accuracy	7mils	3mils
Sector search	>360°	2° - 6°
Tracked targets	>100	-