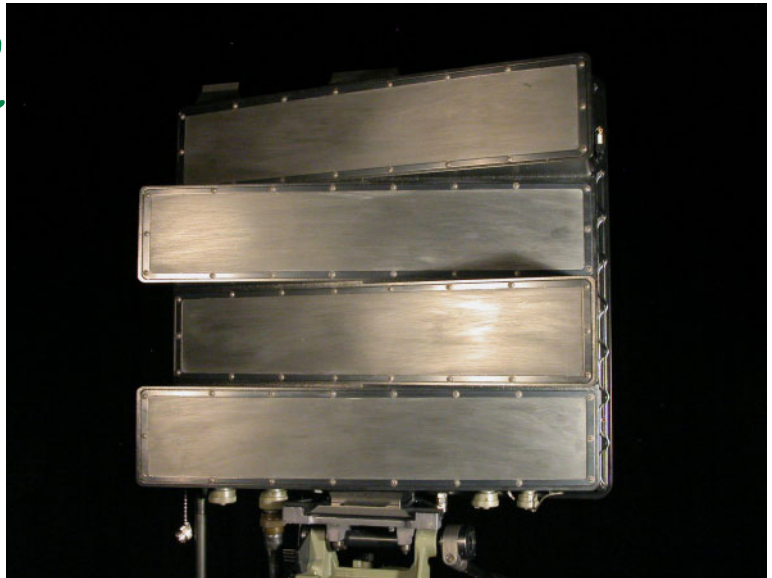




Plextek

Blighter® 202

The Blighter 202 is Plextek's low-cost, man-portable, battery-powered, electronic-scanning ground surveillance radar. It is used to detect and locate moving objects such as people and vehicles 24 hours a day and in all weather conditions. Blighter's e-scan technology is unique and combined with innovative solid-state electronics, offers exceptional performance.



Applications:

- Homeland security
- Border surveillance (land and calm waters)
- Critical commercial and military asset security
- Key personnel protection
- Base camp protection
- Low-level air monitoring
- Power plants, pipelines, airports and other key infrastructure protection



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Electronics Design and Consultancy
DEF0506 02/07

Blighter 202 (B202) is an FMCW Doppler radar designed to detect both small and large objects moving at very slow speeds and above. Blighter has an instrumented range from 20m up to 5km, can detect a walking person at over 2km and a 'crawler' at up to 1km.

The B202 uses innovative solid-state electronics with hardware signal processing and an integrated plot extractor to provide a self-contained, high-performance security sensor that may be used on its own (with remote display) or integrated into larger multi-sensor security systems to provide the initial threat detection alert.

The B202 uses Plextek's unique e-scan antenna. With no moving parts, the B202 is extremely reliable and produces no movement to disclose its position in applications where covert sensors are beneficial.

The simple and compact shape of the B202 allows it to be mounted up a tower, on the side of a building or on a vehicle.

A complete tripod-mounted B202 portable system can be deployed and be operational in less than three minutes. The B202 includes dual GPS and compass for automatic localisation of the radar and its targets.

The B202 detects moving objects over its 76° and 5km surveillance scan and outputs the target information either to Plextek's own HMI (user display) or third party C² (Command and Control) systems. 3rd party Target Trackers are available if required.

The B202 is able to play the sounds of target movements, allowing even a novice operator to immediately distinguish between people, vehicles and animals.

The B202 is designed for ease of integration and is supplied with numerous electrical interfaces. Wired Ethernet and 802.11 WiFi allows fixed and portable networking using TCP/IP and a user configurable RS232/422 serial interface and I/O ports allow 3rd party peripherals to be connected.

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The B202 is designed for low power operation and is able to switch off unused internal circuits to provide various 'sleep' modes. A Li-Ion battery (BB2590) can provide 6 hours' continuous operation.

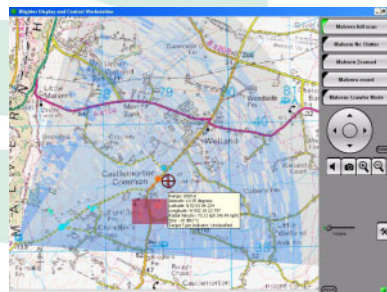
The B202 uses industrial grade parts to offer an extremely resilient 'commercial grade' product. B202 has CE(!) and FCC approvals. For severe shock and vibration resistance, please enquire about the ruggedised B202R.

Performance

- Four scanning modes including crawler detection
 - Target sizes: crawler, human and vehicle
 - Detection ranges (*):
 - Crawler: 20m to 1km
 - Person: 20m to 2km
 - Vehicle: 20m to 5km
- (*Line of sight targets in fine or crawler modes)
- Minimum detection speed: 0.2 m/s (0.5 mph)

B202 is designed to see moving targets in a cluttered environment, whether land, calm waters or a combination of both. This enables vital protection in areas which include rivers, reservoirs, lakes and harbours as well as the land surrounding them. The radar's high performance in movement detection also allows it to detect moving targets near or adjacent to perimeter fences, buildings or other such fixed structures.

Blighter's HMI is a user interface for the B202 radar. The HMI overlays radar target markers onto a background map or an image of the area being monitored. The target markers can be coloured according to speed and direction of travel allowing instant identification of intrusion.



The HMI also provides facilities for controlling remote PTZ camera systems (Pan-Tilt-Zoom) or other sensors that make use of the radar target data.

A range of accessories is available to assist with installation and deployment. These include: tripod, pole-mount adapter, solar shield, ruggedised tablet PC, battery and other power solutions, back-pack, radar test target plus a range of software support utilities and applications. Plextek can also supply the B202 as a complete portable solution.

Key Features of B202 Unit

- 15kg (33lb)
- 480mm x 440mm x 160mm
- CE(!) & FCC approved
- IP65 approved
- -30 to +60°C (-22 to +140°F)
- High reliability: 10,000 hours
- FMCW transmit power 1 Watt nominal
- International Ku radar band
- Power supply: 12 V to 24 Vdc
- Power consumption: 37 W at 12 Vdc (10 W in sleep mode)
- Electronic scanning in azimuth
- Detection angle of 76°
- ±10° fixed elevation angle
- Scan rates: 13°/s to 35°/s
- Audio modes: Continuous, Grab and Fence
- Audio windows: 20m or 160m
- Audio frequency range: 20Hz - 4000Hz
- S/W and F/W upgradeable
- Multiple Blighter operation
- Radar control interface: QZ and XML (over TCP/IP)

Please note that Blighter is under constant development so performance figures presented in this sheet are subject to change. Blighter is subject to a number of pending international patents

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