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Low-Cost, Short-Range Radar's Roll in a Safer More Secure Critical Infrastructure Environment

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Disclaimer

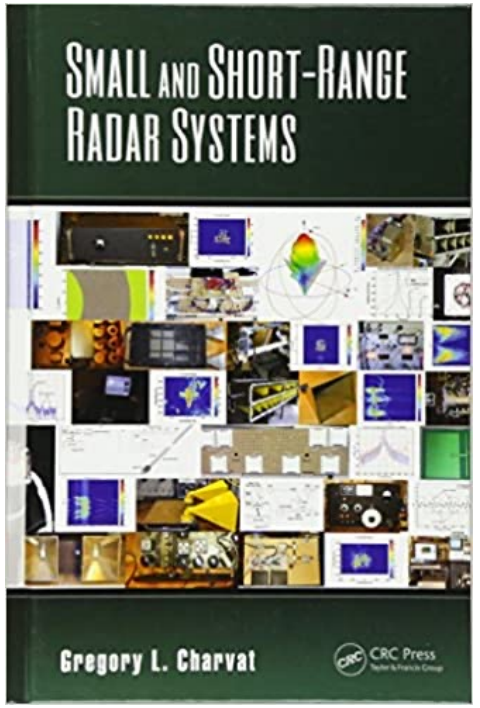
Types of Radars

> Pulse Radar

> The Radar, which operates with pulse signal is called the **Pulse Radar**. Pulse Radars can be classified into the following two types based on the type of the target it detects.

- Basic Pulse Radar
- Moving Target Indication Radar

> https://www.tutorialspoint.com/radar_systems/radar_systems_radar_displays.htm



Very Short-Range Radar

200 -250ft **Axis**

150M – 300M **Mangos**

MSRP
$1,499

Short – Long Range Radar

500M Short

1500M Med

2500M Long

25K+

MSRP
$5,500

Short range radar video detection example

Applicatons/Installation video examples Mangos

Turnkey radar, camera verification and speaker system

This illustrated system has a Turnkey price MSRP $3,100

Advantages of low-cost short-range radars

> Radar is established technology based on radio waves

> Modern systems can be Small Chip based, can be positioned in more areas

> Works in many environmental conditions (fog, low light, darkness)

> Radar is stable where video analytics or cameras can not see or is not stable.

> Can be used in areas with privacy concerns

> IP based, integrated with enterprise VMS (Genetec, Milestone, ACS)

> Can be combined with cameras, speakers and other IP devices

> Can be used to monitor and alert on vehicle speeds

> Many low cost radar system integrate into enterprise VMS systems (Genetec, Milestone)


AXIS D2110-VE Security Radar

Key Features

- Extensive 180° area coverage
- Detection range: 60 m (200 ft) for humans and 85 m (280 ft) for vehicles
- Built-in analytics
- Low false alarm rate 24/7
- Smart coexistence functionality
- PoE-out to power additional devices

Key Applications for Critical Infrastructure

- Additional layer to your perimeter protection plan.
- Extend current detection areas outside the fence (buffer zone)
- Secure critical areas or equipment within the perimeter. Sub Permitters
- Provide detection for roof top applications or façade areas
- Monitor vehicle traffic speeds in restricted areas with alarms
- Monitor no go zones like Class 1 Div.1 Hazardous areas
- Low power consumption for remote monitoring applications, O&G, Power Distribution
- Can be used to supplement higher cost detection technology in case of budget shortfalls

White Paper

Radar in surveillance Technological background and performance considerations November 2021

> https://www.axis.com/files/whitepaper/wp_radar_in_surveillance_en_2111.pdf

Thank You for your time!

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