

# WAVE® Shelf Solution

Real-Time Shelf Monitoring for Smarter Manufacturing Operations

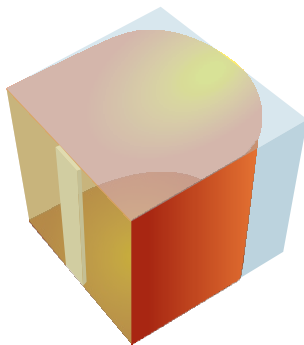
WNC's WAVE® Shelf Solution is designed to detect and monitor on-shelf items in real time. Each shelf can be configured with different antenna modules based on customer requirements to deliver accurate and reliable detection. Through efficient inventory checks and real-time work-in-process tracking, this solution significantly enhances visibility and operational efficiency in manufacturing facilities.



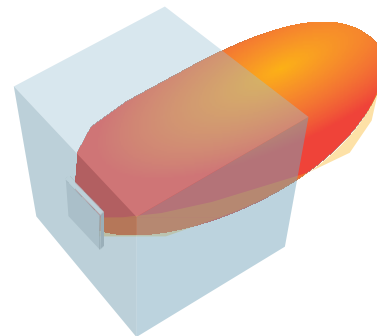
WAVE® Antenna

vs.

Patch Antenna



A WAVE® antenna creates a cylindrical radiation pattern like a fluorescent tube.



A patch antenna produces one main beam and behaves like a flashlight, radiating in a conical pattern well beyond the optimal RFID zone.

## Key Features

### Versatility

Our modular architecture enables the direct upgrade of existing shelving without requiring a redesign of site infrastructure. This design supports diverse shelf dimensions, item types, and industry use cases while reducing deployment complexity and costs.

### Accuracy

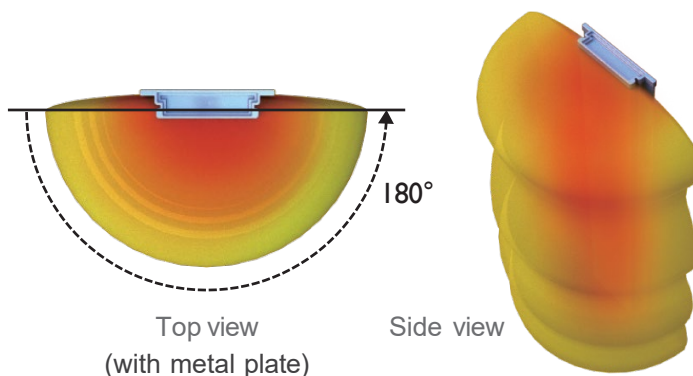
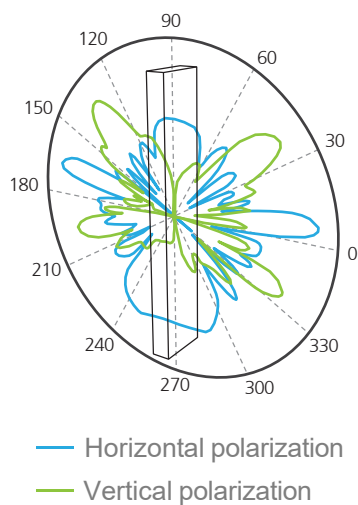
Delivering over 99% item detection accuracy within user-defined shelf zones, this solution ensures reliable real-time inventory visibility while eliminating false reads from neighboring areas.

### Efficiency

This is a plug-and-play solution that can be easily installed in a wide variety of locations with minimal adjustment. It can also be deployed as a retrofit for existing fixtures, delivering a positive ROI within months.

## Antenna Radiation Pattern .....

WAVE® antennas are designed to uniformly illuminate a volume of space. When installed in pairs, the antennas complement each other and provide spatial, direction-of-arrival, and polarization diversities throughout the volume.



RFID Portal 3D Pattern



### Specifications

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Model Name                    | <b>XRBS-ES3</b>                              |
| Dimensions                    | Exterior: 143 cm (H) × 60 cm (W) × 86 cm (D) |
| Material                      | Stainless Steel                              |
| No. of Shelves                | 14 (adjustable)                              |
| Ambient Operating Temperature | 0 °C to 40 °C (32 °F to 104 °F )             |



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