



# Description

AEWHHWFDRS60-4G is a human fall detection millimeter wave radar (mmWave) based on the 60 GHz frequency band. The radar adopts the FMCW technology and comprehensively uses technologies such as MIMO, beamforming, group tracking and deep learning to realize indoor personnel tracking and fall recognition.

AEWHHWFDRS60 can be used in private places such as toilets and bedrooms without privacy issue. The fall detection radar can obtain target information such as personnel position, and realize non-contact detection.



# Applications

- Smart Hospital
- Smart Elderly Center
- Smart Toilet
- Smart Office
- Smart Building
- Smart Campus

### **Product Features**

- No privacy concerns
- High detection rate of falls and low false alarm rate
- Target can be tracked
- Remote non-contact attitude detection
- Small size, light weight, easy to install

### **Application Scenario**





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# **Device Specifications**

Frequency Range	60GHz ~64GHz
Transmit Power	≤10mW
Modulation	FMCW
Bandwidth	2 GHz
Range Measurement	0.3m~4m
Horizontal Angle Range	-45° ~+45°
Elevation Angle Range	-45° ~+45°
Range Resolution	0.08m
Velocity Resolution	0.10m/s
Voltage Range	12V DC
Power Consumption	<2.4W
Temperature Range	-40°C ∼+45°C
Dimensions	$\Phi$ 88x61mm, 160g (fall detection radar)
Communication Protocol	4G (connection box with recommended dimension: 200x120x75mm)

# Detection Range Example Left border - 1.2m, right border 1.2m, back border 0.3m, front border 4m



# Installation

This light weight mmWave sensor is designed for wall-mount. Please follow the arrows for screw holes.





Unit: mm

This 4G version comes with a connection box. The common installation configuration is shown below. The connection box comes with housing with anti-dust and anti-moisture rating, and is safe to be placed on the false ceiling.





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# Reference

ChinoINT mmWave Radar has been deployed widely and successfully. The technology has been integrated into the Smart Worksite solution invented by ChinoINT at power plants in Hong Kong, to raise the worksite safety to the next level.

For more information about the Smart Worksite solution, please contact us at sales@chinoint.com.

Shown below are same sensor with industrial housing







# **Ordering Information**

Part Number AEWHHWFDRS60-4G Uplink 4G



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# Warning

Assumes no liability for any damage resulting from the use of this product. CHINOTECH INTERNATIONAL LIMITED reserves the right to change this data sheet at any time without notice. The information furnished by ChinoINT is believed to be accurate and reliable. However, no responsibility is assumed by ChinoINT for its use, not for any infringements of patents or other rights of third parties resulting from its use.

# Product Warranty and Customer Support

ChinoINT warrants all products free from defects in material and workmanship for a period of one year from the date of shipping. During the warranty period, we will, at our position, either repair or replace any product that proves to be defective. To report any defect, please inquiry <u>sales@chinoint.com</u>

Unauthorized opening and improper repairs on the device may result in substantial damage to equipment or endanger the user. The product described in this documentation may be operated only by personnel qualified. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products. Always disconnect the power plug before you open the device.

Please have the model, serial number and a detailed problem description available when you call. If the problem concerns a particular reading, please have all meter readings available.

This warranty does not apply to defects resulting from unauthorized modification, misuse. If you install or exchange system expansion and damage your device, the warranty becomes void.

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We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.



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