

# FD-IBIS-S Micro tiny deformation surveillance radar Radar

## Features :

FD-IBIS-S micro deformation surveillance radar can be applied to remote static and dynamic monitoring of the buildings and terrain. FD-IBIS-S radar can detect tiny vibration on buildings by using microwave interaction technology to significantly improve the sensitivity of detecting displacement. It does not need to block the traffic on the bridge when FD-IBIS-S radar is operating. FD-IBIS-S radar can achieve static and dynamic remote monitoring for the historical buildings, monuments and buildings under construction which are difficult to enter.



## Application field :

- Static and dynamic remote monitoring of buildings, such as buildings, bridges, viaducts, pedestrian bridges, dams, power stations, houses, monuments and towers etc..
  - Deformation and displacement monitoring
  - Deformation and structure displacement detection of buildings
  - Resonance frequency measurement of buildings
  - Vibration mode measurement of structure
- Providing accurate data for the disaster research, forecast and control etc.



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## TECHNICAL SPECIFICATIONS

- ❑ Remote sensing measure (up to 1 Km), without into the object
- ❑ Real time direct detection of building displacement, Precision up to 0.1 mm
- ❑ All-weather 24 hours of continuous working
- ❑ Accurate detection and track of slow and tiny displacement
- ❑ Accurate detection and track of the vibration whose frequency is between 0 to 50Hz
- ❑ Main frequency :K band
- ❑ Displacement precision : 0.1mm
- ❑ Type: FMCW
- ❑ Data rate: 400 times / sec
- ❑ Operating bandwidth :300 MHz
- ❑ Range : 0.01 - 1 Km
- ❑ Distance resolution: 0.5 M
- ❑ Power consumption : 30W
- ❑ Size :300mm ×200mm ×100mm
- ❑ Weight :10 Kg



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