



ANT-IR

IN ROAD ANTENNA

Features

- Extremely Low Profile
- Different Frequencies Available:
 - Digital Cellular (**ANT-IR-8619**)
 - Analog Cellular (**ANT-IR-860**)
 - ISM Spread Spectrum (**ANT-IR-902**)
 - Bluetooth, Wifi, ZigBee (**ANT-IR-2400**)
- Chemical Resistant
- Waterproof
- 3 dB Gain
- Customizable Cable Length and Connector
- Suitable for High Traffic Locations
- Flush with Road Surface

Operational Description

Imagine having the ability to communicate with your equipment that is installed in a manhole in the middle of a busy street; having the ability to not have to block traffic to retrieve your data anymore. Well then Optimum Instrument's In Road Antenna (ANT-IR) is the answer.

Our in road antenna features a rugged design which allows the antenna to be mounted directly into the pavement. The IR series antenna is waterproof with a steel base to attach the antenna securely to the road surface. Construction of the antenna uses adhesives that are resistant to JP-4, acetone, methyl ethyl ketone, motor oil, and gasoline. And its rugged construction makes it virtually tamper-proof. Our standard antenna has a TNC connector on the bottom of the mounting stem that attaches easily to the supplied 12' or 20' length of LMR195 cable. Rugged, and durable; this design makes this antenna an excellent choice for your high traffic area installations

Applications

- Vendor Managed Inventory
- Interconnection weir monitoring
- Pump station monitoring
- Strain gauge studies
- Meteorological studies



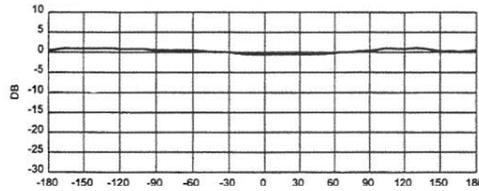
Installation Images



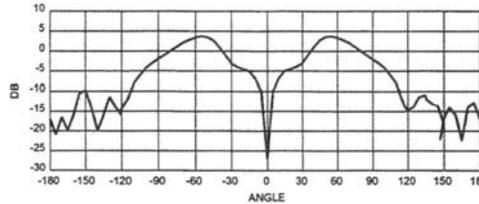
Technical Specifications

Electrical Specs	
• VSWR at Resonant Point:	2:1 max
• Connector:	User selectable
• Nominal Impedance:	50 Ohms
• Gain:	3 dB
• Polarization:	Vertical
• Maximum Power Input:	125 watts
Dimensions	
• Height:	3" (~8 cm)
• Width:	7" (~18 cm)
• Length:	5" (~13 cm)
Specifications subject to change without notice.	

Azimuth Pattern



Elevation Pattern



- ANT-IR-8619 Digital Cellular 824-896 MHz and 1850-1990 MHz dual-band comes with 20 feet of LMR195 cable.
- ANT-IR-860 Analog Cellular 800 MHz comes with 12 feet of LMR195 cable.
- ANT-IR-902 ISM Spread Spectrum 902-928 MHz comes with 12 feet of LMR195 cable.
- ANT-IR-2400 Bluetooth, Wifi, ZigBee 2.4 GHz ISM comes with 12 feet of LMR195 cable.

Ordering Information

Model Part No.	Description
ANT-IR-8619	Digital Cellular Manhole Lid Antenna
ANT-IR-860	Analog Cellular Manhole Lid Antenna
ANT-IR-902	ISM Spread Spectrum Manhole Lid Antenna
ANT-IR-2400	Bluetooth, WiFi, ZigBee Manhole Lid Antenna

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