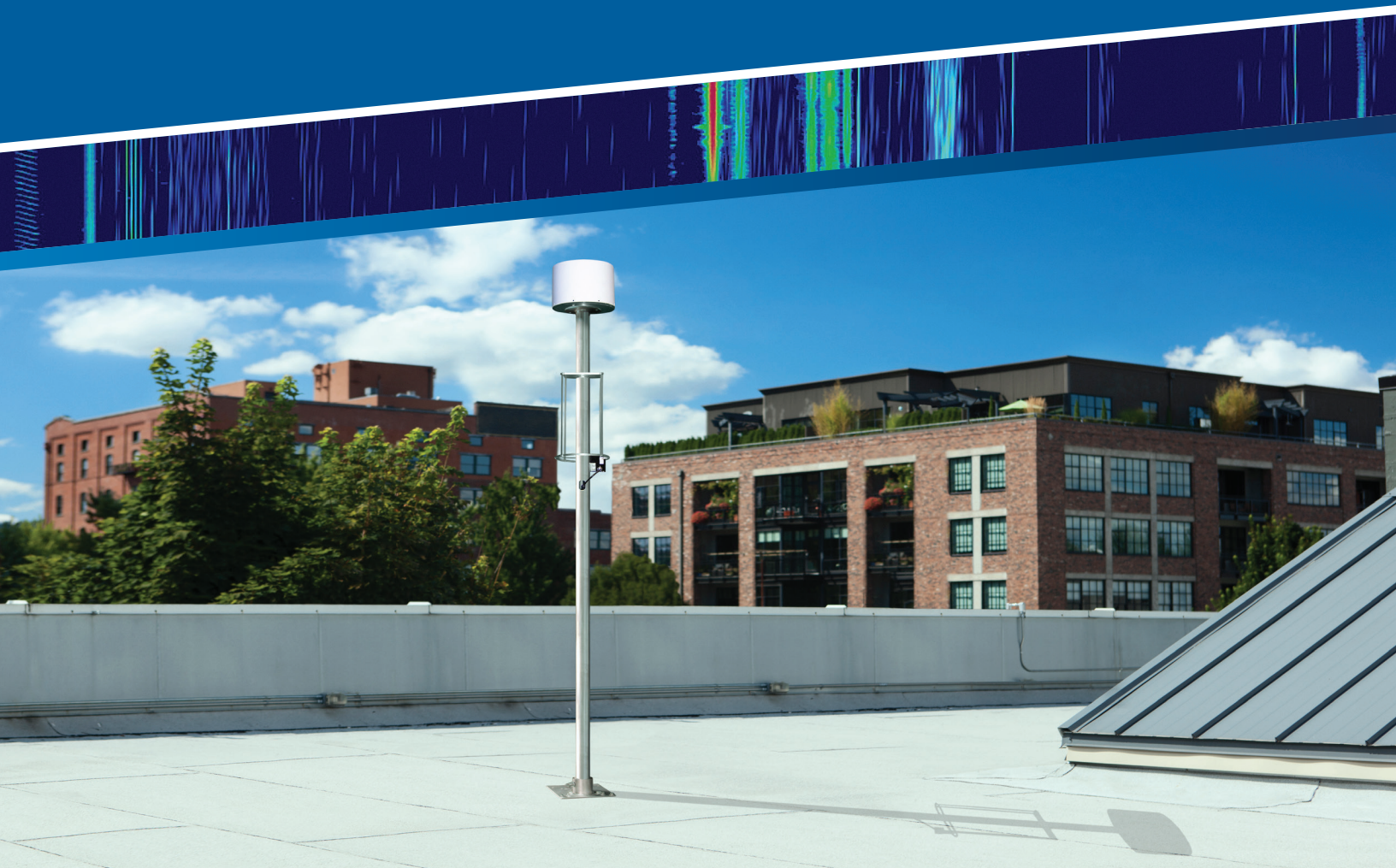


640 VHF/UHF/SHF Monitoring Antenna



The TCI Model 640 monitoring antenna covers an extremely wide range of frequencies, from 20 MHz to 8.5 GHz. The 640 uses passive broadband elements, thereby eliminating the need to provide power and control circuitry.

The Model 640 covers the 200 to 8,500 MHz range using a pair of spun aluminum disc-cones. A second shunt-fed antenna mounted to the support pole provides best sensitivity from 20 MHz to 200 MHz. The combination of both antenna elements provides monitoring of vertically-polarized signals across the entire frequency range. The antenna assembly installs on to a building or tower structure via a standard 2" pipe mount.



TCI Model 640 VHF/UHF/SHF monitoring antenna shown in fixed site configuration.

KEY FEATURES

- › Extremely broadband frequency range, 20 MHz to 8.5 GHz antenna
- › Omnidirectional receive pattern with better than unity gain
- › Max gain at 0° elevation up to 45° elevation coverage (frequency dependent)
- › COTS — short delivery time
- › Passive, no AC/DC power requirement
- › Simple mounting, standard 2" pipe
- › Ground plane independent
- › Small profile

640 VHF/UHF/SHF Monitoring Antenna

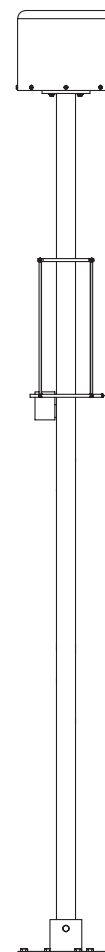
Model 640 Specifications

Frequency Range	20 - 8,500 MHz
Array Element Types	· One omni UHF bicone (200-8,500 MHz) · One omni VHF shunt-fed element (20-200 MHz)
Antenna RF Outputs	Two, 50 ohm, Type N connectors
Dimensions	3.1 m (122 in.) high x 31 cm (12.2 in.) diameter
Weight	12 kg (26 lb) including low band antenna and pole.
Environmental	Operating Temp: -25 °C to +65 °C. Wind speed: >160 km/hr

Sensitivity*

20 MHz	-33 dBμV/m
100 MHz	-28 dBμV/m
200 MHz	-23 dBμV/m
500 MHz	-15 dBμV/m
1 GHz	-10 dBμV/m
2.5 GHz	-3 dBμV/m
3.5 GHz	-1 dBμV/m
5 GHz	+2 dBμV/m
6 GHz	+4 dBμV/m
8 GHz	+5 dBμV/m

* For -150 dBm/Hz / 10 dB typical SNR at receiver output.



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