

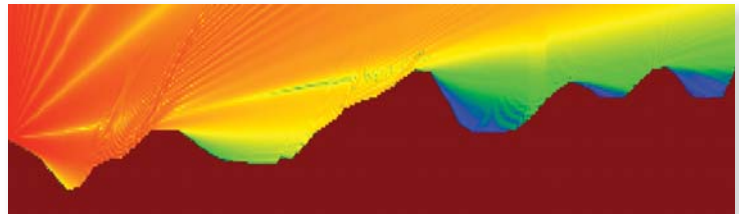
# Wireless InSite®

## Wireless EM Propagation Software from the Leaders in High-Fidelity Propagation

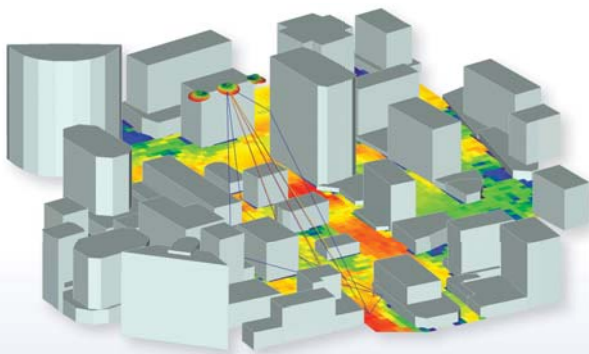
Turn to Remcom for electromagnetic propagation expertise and tools that improve productivity and efficiency. With each new release, **Wireless InSite** performs faster and handles ever more challenging computations.

**Wireless InSite** is site-specific radio propagation software for the analysis and design of wireless communication systems. It provides efficient and accurate predictions of propagation and communication channel characteristics in complex urban, indoor, rural and mixed path environments, including high-fidelity and real time options.

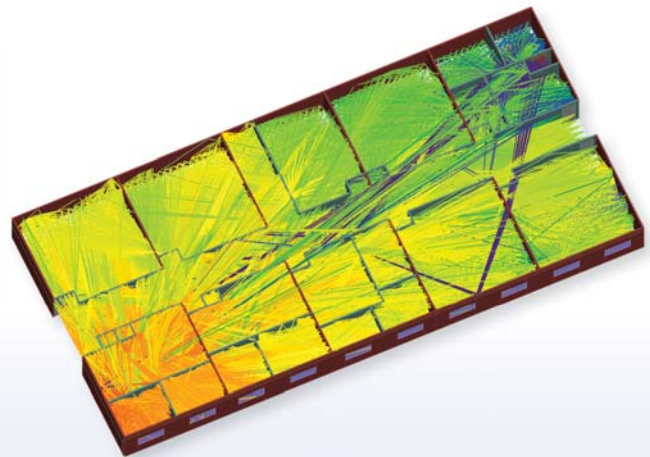
Applications range from military defense to commercial communications, helping RF engineers to design wireless communications links, optimize antenna coverage, and assess the effectiveness of jammers.



*Modeling of the propagation loss over an irregular terrain using Moving Window Finite Difference Time Domain.*



*Wireless InSite has the ability to model propagation loss throughout a city. Antenna patterns can be imported and displayed as well as the dominant paths between a transmitter and receiver pair.*



*Model interior floor plans within Wireless InSite. This is an example of a typical office building with a WiFi transmitter in one office, showing path loss and the dominant paths from the transmitter throughout the floor.*

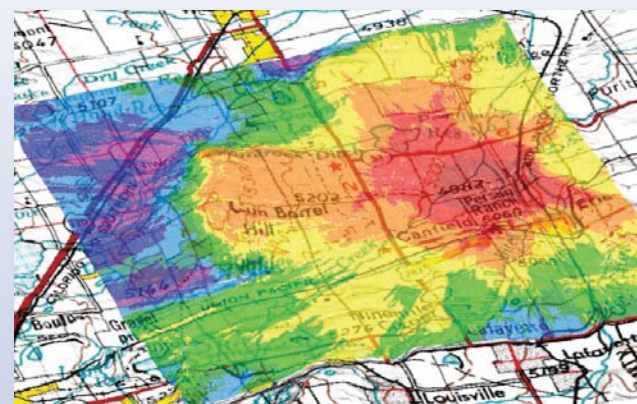
Visit [www.remcom.com/wireless-insite](http://www.remcom.com/wireless-insite) for a detailed feature list, system requirements and licensing information.

## ■ Real Time Module

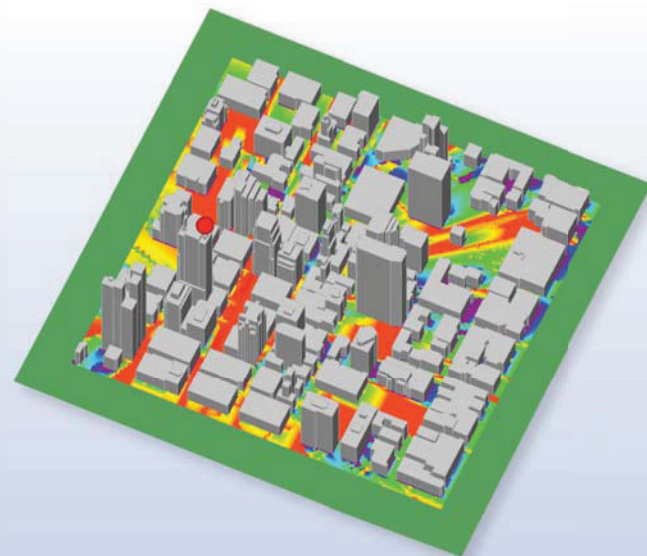
Remcom's Wireless InSite Real Time module provides Wireless InSite with a very rapid propagation capability for urban environments. When used with the Real Time Module, Wireless InSite returns loss results in under a millisecond. Real Time Module calculation times are relatively independent of overall scene size and complexity; these almost instantaneous computations allow for coverage of large areas, or for near-real-time simulations of transmitter and receiver networks.

## ■ Feature Highlights

- Suite of propagation models for urban, indoor, rural, and mixed path field predictions
- Import XFDTD® far zone patterns
- Optimized ray engine enables fast run times for large urban scenes
- 64-bit version for very large, complex problems
- Nearly instantaneous Real Time Module run times are relatively independent of overall scene size and complexity
- Trajectory transmitter/receiver sets allow definition of flight paths
- User defined two-cut plane antenna radiation patterns simplify import of vendor and user antenna data
- New API to Wireless InSite's Full 3D Ray Model included standard with every Wireless InSite license
- Moving Window and Urban Canyon FDTD models bundled with standard edition
- Communication channel analysis tool
- Modeling of atmospheric ducting effects
- Run calculations on multiple processors
- Overlay output on top of maps and aerial photographs



A coverage map depicting the areas of high gain and loss over hills and plains near Boulder, CO.



Wireless InSite can handle large urban scenes, showing the effects that buildings have on propagation paths and field levels.

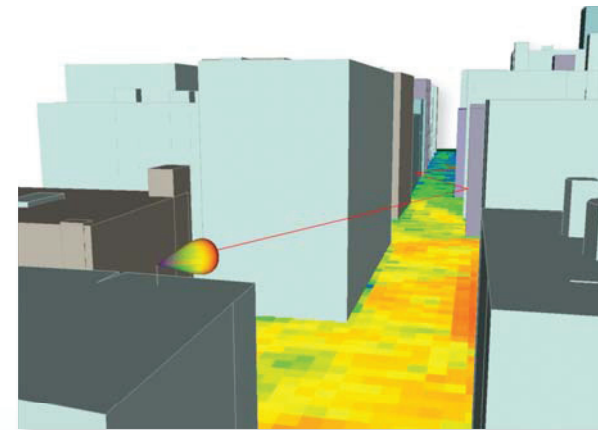
## ■ The Remcom Difference

### Customer Focused

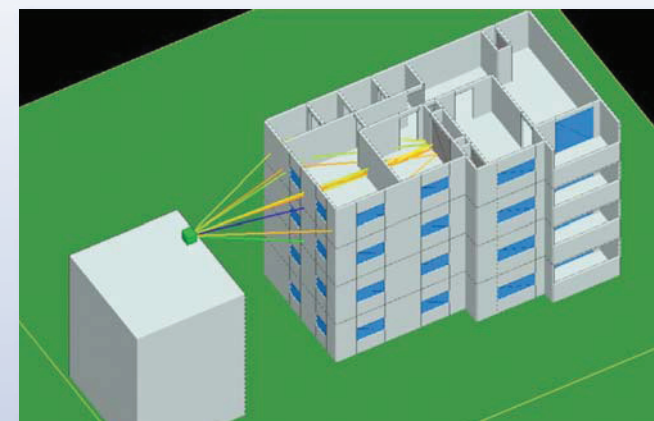
Remcom is enthusiastically devoted to listening to our customers and understanding their needs, building requested features directly into the software with each new release. And since we've been providing EM expertise and solutions since simulation software became a reality, you can be confident that many years of experience have gone into the design and functionality of the products we create and the way we support them.

### Personal Attention

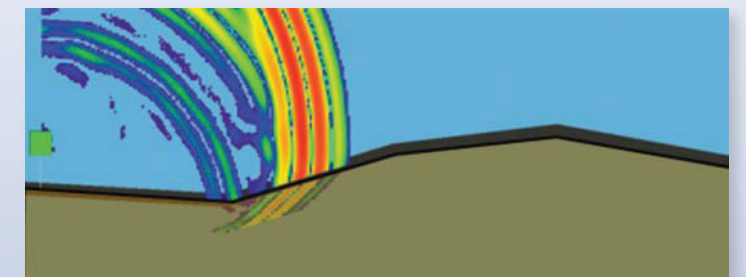
Our reputation for providing excellent and accessible technical support is a result of the talent we recruit and our willingness to put our best people in touch with customers in need. When you call Remcom for support or even just for advice, you speak directly with our most respected engineers.



One of the dominant paths from a transmitter propagating down a street in an urban canyon along with the field levels on the ground.



An example of Wireless InSite capability to model outdoor-to-indoor propagation showing a WiFi transmitter outside and the dominant paths to a receiver within the building.



Use the high-fidelity Moving Window FDTD model to predict fields near the surface of the earth, including the effects of rough terrain and the calculation of fields below ground.

## ■ XSite — Remcom’s Monthly e-Newsletter for EM Professionals

Subscribe to XSite, Remcom’s monthly e-newsletter, to be notified of product announcements and special offers, support tips, new technical articles, and upcoming events.

Subscribe by visiting [www.remcom.com/customer-communications](http://www.remcom.com/customer-communications)

*Remcom has been leading the EM market with innovative simulation and wireless propagation tools for 15 years. In addition to our flagship product, XFDTD, we offer a suite of innovative software and services, accessible and responsive support provided by a staff of experts, and comprehensive training. Our family of products includes:*



**XFDTD®:** General purpose, full wave 3D EM analysis software newly updated to Release 7.



**Wireless InSite®:** A radio propagation analysis package for analyzing the impact of the physical environment on the performance of wireless communication systems.



**XStream®:** GPU acceleration using NVIDIA’s CUDA architecture dramatically speeds numerical computations.



**VariPose®:** A geometric modeling package for the manipulation and refining of high-resolution human mesh models for the medical and biomedical markets.



**XGTD®:** A high frequency GTD/UTD based package for the design and analysis of antenna systems on complex objects such as vehicles and aircraft.



**Rotman Lens Designer™:** A tool for the design, synthesis, and analysis of Rotman Lenses.

Authorised distributor & Support Partner

VIRE Technologies Pte Ltd  
Tel: +65 6100 4310  
Fax: +65 6100 1370  
Email: [info@vi-re.com.sg](mailto:info@vi-re.com.sg)  
Web: [www.vi-re.com.sg](http://www.vi-re.com.sg)

Visit [www.remcom.com](http://www.remcom.com) for more information

Remcom, Inc.  
315 S. Allen St., Suite 222  
State College, PA 16801 USA

+1.888.7.REMCOM (US/CAN)  
+1.814.861.1299 phone  
+1.814.861.1308 fax

[sales@remcom.com](mailto:sales@remcom.com)