

Communication Enhancement Systems

Solving problems for wireless providers is Aiorlite's special strength.

Drawing on their extensive RF, wireless, fiberoptic, microprocessor and custom software design backgrounds, Aiorlite engineers uniquely blend the technologies of radio and digital electronics into elegant solutions to solve customer problems.

Today, Aiorlite has evolved into a leading edge company using this combination of technologies to provide wireless communications in so-called dead zones:

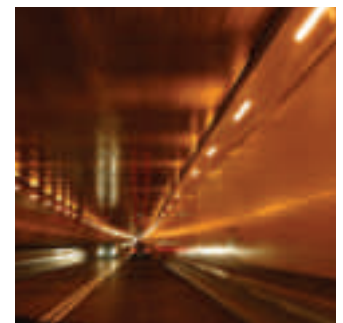
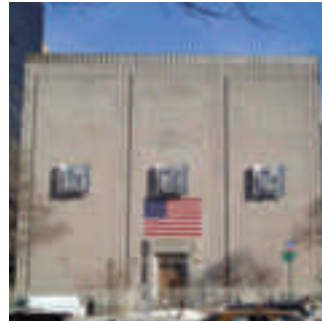
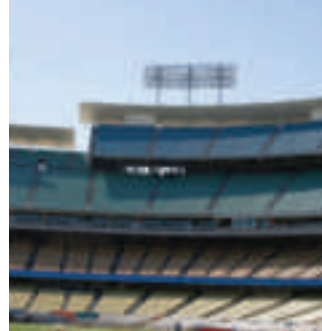
- Tunnels & subways
- Underground buildings and large concrete structures
- Airports
- College campuses
- Stadiums and arenas
- Malls and shopping centers

In addition, Aiorlite has conceived, designed and manufactured custom designs based on their standard product offerings (receivers, transmitters, tunnel-linc rebroadcasting systems and filters) to address needs facing cellular/PCS carriers and others with wireless communication requirements.

Aiorlite has designed and installed communication systems for New York City's Queens Midtown, Brooklyn Battery, Lincoln and Holland Tunnels, 7 World Trade Center, PATH trains, LaGuardia Airport, the Ted Williams Tunnel in Boston, Mercer and Mt. Baker Tunnels in Seattle, and the Hampton Tunnel in Virginia. Our customer list includes Verizon Wireless, Sprint PSC, Nextel, the Metropolitan Transit Authority of New York City, The Port Authority of New York and New Jersey, the US Federal Government's UAV program, Amtrak's Acela Express trains, and the Garden State Mall in New Jersey.

Standard products include an array of PF driven amplifiers, receivers, transmitters and Ultra-Q filters for all communication bands from HF to PCS. Ultra-Q is a patented active filter which eliminates all interfering signals within a specified frequency band. The inexpensive Ultra-Q replaces passive "brick wall" and cavity filters with many advantages, including the ability to tune to the exact frequency and eliminate all others.

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AIORLITE COMMUNICATIONS, INC.

A Division of Henry Bros. Electronics, Inc.

17-01 Pollitt Drive
Fair Lawn, NJ 07410
201-398-0960
Fax: 398-0962
info@airorlite.com

Airolite's Tunnel-Linc Rebroadcasting System has the capacity to receive and rebroadcast up to 30 AM and 30 FM radio stations into areas where these signals may not otherwise be received. Pre-recorded and live voice messages allow communications to vehicles via AM/FM radio. Conceived, designed and manufactured in 1982, Tunnel-Linc became the architecture of all the channelized products offered by Airolite. Today, the products that are called upon for in-building solutions include a complete line of channelized booster amps, which provide coverage over all of the emergency service bands (150 to 900 MHz).

SYSTEMS

- In-building DAS
- Tunnel DAS
- Mobile RF signal boost for transportation
- Test systems
- Fully FCC licensed systems
- In-building GPS systems
- Wi-Fi, emergency agencies, cellular voice/data
- Low TDI channelized systems

PRODUCTS

- Ultra-Q DAS
- RF/Fiber modems
- Channelized BDA
- AM and FM rebroadcast
- Over the air emergency messaging
- Wireless and networked emergency egress
- FM sub-carrier emergency notification
- Antenna products
- FDNY redundant repeater control consoles

SERVICES

Surveys and frequency coordination
Integration of 3rd party hardware and software
Carrier coordination services
Professional engineering
RF systems designs and architecture
Network commissioning
Custom designs
Maintenance contracts



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