

TECHNOLOGY SOLUTIONS

Long-Distance Wireless Surveillance



Construction sites, parking lots, remote gates, well sites, ranches...

These types of locations have remote video surveillance needs where trenching for cable can be impractical. In these cases, an outdoor wireless surveillance system is an ideal solution.

Initial forays into long distance wireless security cameras have been cumbersome with line-of-sight required for antennas, disappointing distance ranges, high costs, and limits based on integration with old hardware. But now, as wireless router strength and speeds have advanced and Cloud Software as a Service (SaaS) has emerged, the security industry is overcoming these obstacles.

This guide illustrates different configurations for 200 foot, 5 mile, and 15 mile ranges. It includes recommendations for routers, antennas, and cameras for a complete solution.

Outdoor Wireless Solutions

3 Configurations Based on Range



200 Foot Range



Home Base

Up to 200 Feet

Each Camera Location



5 Mile Range



Home Base

Up to 5 Miles

Each Camera Location



3 Camera Options



15 Mile Range



Home Base

Up to 15 Miles

Each Camera Location



3 Camera Options

Outdoor Wireless Components

A



Ultimate Wireless N Gigabit Router

TL-WR1043ND

- ▶ 300Mbps Wireless speed and Gigabit Ethernet ports are Ideal for multiple HD video streaming
- ▶ Three antennas with SST technology increase the wireless performance and stability
- ▶ USB port for external HDD video storage

With a built-in Gigabit Ethernet Switch, this router provides more powerful data processing abilities and unleashes the full potential of the N-enabled routers. It eliminates bottlenecks in transferring speed between megabit wired and 11n wireless connections. Everything you do will be faster and more efficient.

B



Outdoor Bullet with Built-in Wireless

ELI-SNI-BVGA-[lens]WIR

- ▶ Open Air Wireless up to 200 ft.
- ▶ 6, 8, or 12mm Lens
- ▶ IR with 60 ft Range

3 Camera Options



Outdoor Varifocal Bullet

ELI-SNI-BVGA-[lens]IR

- ▶ 4~9 or 9~22mm Varifocal Lens
- ▶ D1 Resolution
- ▶ IR with 90 ft Range

C



Outdoor 1.3MP Bullet

ELI-SNI-B13-6IR

- ▶ 6mm Lens
- ▶ 1.3MP Resolution
- ▶ IR with 90 ft Range



Outdoor 1.3 MP Dome

ELI-SNI-VD13-[lens]IR

- ▶ 4.3 or 6mm Lens
- ▶ SXGA Resolution
- ▶ Built-in ICR

SNIPER

IP Cameras with Built-in Video Storage and Free Cloud Portal

SNIPER cameras are self-contained video recording and storage systems.

There's no need for a DVR/NVR. You connect directly with the camera through a cloud portal on the internet. This makes expanding your system easy - simply add an additional camera. All cameras can be managed through the same portal.



Outdoor Wireless Components

D



2.4GHz High Power Wireless Outdoor Antenna

TL-WA5210G

- ▶ Outdoor weatherproof and lightning/ESD protection design
- ▶ 12dBi dual-polarized antenna with up to 5 mile range (up to 15 mile range with added booster antenna)
- ▶ Passive Power over Ethernet for flexible deployment

With a built-in Gigabit Ethernet Switch, this router provides powerful data processing and unleashes the full potential of the N-abled wireless routers. It eliminates bottlenecks in transferring speed between megabit wired and 11n wireless connections.

E



Pigtail Cable

TL-ANT24PT

2.4GHz 15dBi Outdoor Omni-Directional Antenna

TL-ANT2415D

- ▶ 15dBi omni-directional operation highly extends wireless range. Use with TL-WA5210G for range up to 15 miles.
- ▶ N female connector is compatible with most wireless equipment
- ▶ Weather proof design suitable for all weather conditions
- ▶ Provided mounting kits make for easy installation in various environments

F



Optional USB Storage Drive

CUSTOM CONFIGURATION

- ▶ Extends on-site video storage beyond what is available at individual cameras
- ▶ Up to 1TB supported
- ▶ Connects to router - no DVR/NVR needed
- ▶ Most USB storage drives are supported after custom configuration

G



Optional 5-port Switch For Camera Clusters

TL-SG1005D

- ▶ Green Ethernet technology, saves power and cost
- ▶ 5 10/100/1000Mbps Auto-Negotiation RJ45 ports (Auto-MDI/MDIX)

About e-Line

e-Line is a manufacturer of equipment and technology for the electronics and security industries. They have pioneered the U.S. technology for Cloud Video Management using a camera's internal video storage with a cloud portal.

The SNIPER line of Cloud IP Cameras has dome, bullet, full body, and PTZ models with VGA or MegaPixel resolutions, and hardwire or wireless options. The e-Line cloud portal is free with the purchase of a SNIPER camera.

e-Line partners with TP-Link routers and antennas to provide expanded local storage at the router, and long-distance wireless systems that transmit video up to 15 miles between the camera and the router.



Visit the e-Line website at www.el-usa.com for a list of distributors.