



Video Solutions for Security Professionals™

## CASE STUDY



### At a Glance:

**Market:**

Cities

**Location:**

Downtown Houston, Texas.

**Application:**

Surveillance needed to protect public for five blocks including intersections

## Case Study: How Houston Saved Big on IP Wireless Solutions

### Introduction

Downtown Houston began its renewal in the mid-1990s. More than \$6.1 billion was used to develop high rises, parks, and infrastructures. Demand for stronger city video surveillance grew because of city's population and activities in downtown. Main Street runs through the heart of Downtown Houston that covers more than 20 blocks. Surveillance was needed to help ensure the safety of the public for five blocks and intersections.

### Challenge

Wiring Main Street had its challenges that merely did not allow network Cat5/6. Old and new high rises made wiring difficult because of obstacles as some building materials or existing

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infrastructures weren't practical to run. Due to the overall high cost and longer installation time of network Cat5/6, the city decide that wireless was their best route for the project.

### Solution

Since high cost network Cat5/6 was out of the picture, the installer worked closely with a LTS technician to draft a proposal using LTS IP products with a wireless solution, Ubiquiti nano stations. With numerous communication towers, and intersection poles, these areas made ideal locations to mount the nano stations in order for the solution to work.

The solution used five Smart Tracking IP PTZ, PTZIP762X20IR, five Ubiquiti wireless nano stations, and 20 Platinum Varifocal Vandal Proof Dome cameras 3.2MP, CMIP7233-S, four 6TB Western Digital Surveillance Grade hard drives, and the Enterprise Level 64 Channel NVR, LTN0764-R8. Each intersection of the five blocks used one PTZ, and five IP dome cameras.

### Featured Products:

(PTZIP762X20IR) Platinum IP PTZ High Speed Dome Camera 2.1MP

(CMIP7233-S) Platinum Varifocal Vandal Dome IP Camera 3.2MP

(DHWD60PURX) Western Digital Purple Surveillance Hard Drive – 6TB

The Ubiquiti wireless nano station is capable of transmitting signal distances up to 1000 ft., so having them mounted at the intersection poles was ideal. The PTZ used a wall mount at the corner of the most prominent building of an intersection. The five IP dome cameras were mounted along the vertical walls of buildings and with the camera's 3-Axis function, they were easily adjustable to rotate lens to view the streets in the right direction.

The solution was connected to the Enterprise level 64 Channel NVR, LTN0764-R8. A 64 Channel option was selected for plans of further expansion since Main Street has over 20 blocks in Downtown Houston area.



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### Results

The wireless implementation and maintenance helped drive down the costs for the city when no accessible network Cat5/6 points were available. The wireless solution is very flexible from point to point, or point to multi point, and was easily mounted on existing intersection poles. With the ease of installation and lower costs, the city was very satisfied with the wireless solution and plan on expanding the solution in the future.

*Please contact a LTS specialist for more information on LTS wireless solution package with Ubiquiti*

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