

## Company Background

Huper Laboratories (known as HuperLab) is a leading developer of intelligence video surveillance systems, and a technology innovator on computer vision, video/audio codec and streaming technology. As a professional video surveillance solution provider, HuperLab has been devoted to researching and developing comprehensive, easy-to-use, and reliable surveillance products since 1997. So far, HuperLab has sold over 110,000 surveillance systems to clients in over 30 countries.

HuperLab offers a wide range of PC-based DVR systems, and the PTZ camera auto tracking system. huperVision 4000 series is the intelligent video surveillance system with powerful and smart DVR functions while huperDVR 2400 series is positioned as HuperLab's basic (entry-level) DVR system for general use. huperTracker, moreover, is an automated tracking system that engages multi-camera associated tracking by using one PTZ camera coupled with at a maximum of three still cameras. Users can see the object details from different perspectives, and monitor its moving path with both PTZ and still cameras simultaneously.



## huperTracker Specifications

### System

CPU	Socket 479 Intel Core™ 2 Duo 2.0G
HD	120 GB
RAM	1GB (240-pin DIMM)

### Input/Output

Serial Ports	Two serial ports, one DB-9 (RS 232) connector and one on-board pin header (RS 232/422/485). Ports can be individually configured to COM1, COM2, or disabled
USB port	Supports up to six USB 2.0 ports with transmission rate up to 480Mbps.
Video input connectors	4 In (D-sub 4-pin to BNC)
Video loop through connectors	4 Out (D-sub 4-pin to BNC)
Digital I/O connector	8 In/Out

### Graphics

Controller	Intel Graphics Media Accelerator 950
TV-Out	NTSC/PAL

### Ethernet LAN

Interface	Supporting dual 10/100/1000Base-T Ethernet port(s)
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## Product Features

### Multi-zone Tracking

- When intrusions occur in multiple surveillance areas, the PTZ camera will track the target in the highest security area by definition.

### Multi-intrusion Tracking

- When multiple intrusions occur in the same field of view, users can define which intrusion the PTZ camera should track first.
- Large object track first: The PTZ camera tracks the largest object on screen.
- First-in, first-track (FIFS): The PTZ camera tracks the object entering first.
- Last-in, first-track (LIFS): The PTZ camera tracks the object entering last.

### PTZ Camera Auto Cruise & Tracking

- The PTZ camera cruises in preset sequence when no intrusions occur.
- When motion is detected during the auto cruise, the PTZ camera will start tracking automatically.
- Filter unmatched targets by object size, and adjust motion sensitivity or noises to increase accuracy.

### PTZ Camera Manual Tracking

- The security personnel can pinpoint a specific intrusion manually, and direct the PTZ camera to track the target.
- PTZ manual tracking overrides other tracking modes.

### PTZ Camera Auto Zoom-in

- The PTZ camera automatically zooms in on the target for details when an unattended object is detected or a moving object remains still for a period of time.

### On-screen PTZ Control

- Provide advanced PTZ camera control functions, such as iris control, pan/tilt speed adjustment, and auto-loop/auto-pan.
- When users define a specific region, the PTZ camera will zoom in and turn the region into a near full-screen display automatically.

### Detection Mask

- Allow users to specify which areas to detect, and mask out irrelevant areas.



# huperTracker

Your Automated PTZ Tracking Solution

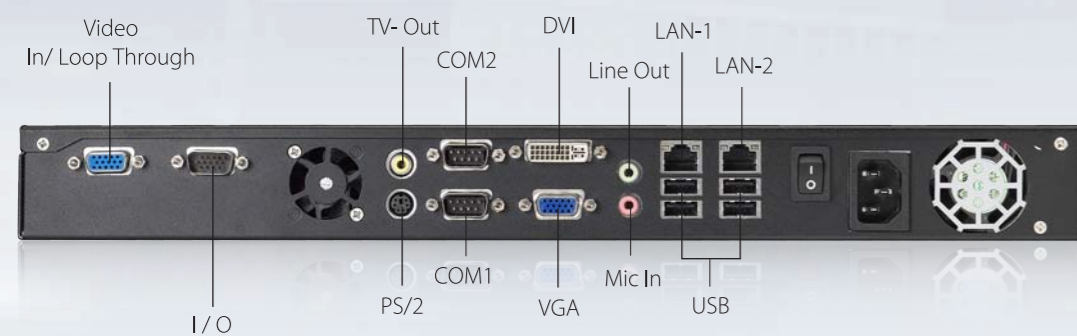
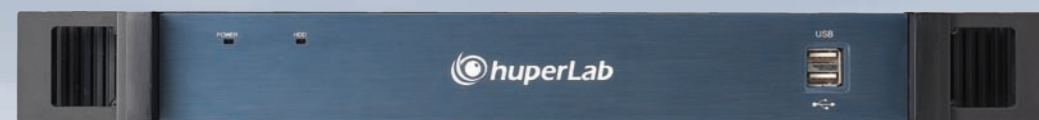


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# huperTracker

Your Automated PTZ Tracking Solution



## Introduction

huperTracker is one of the most innovative auto tracking solution in the surveillance industry. It is not only as smart as a security guard, but also can detect and track intrusions with one PTZ camera coupled with a maximum of three still cameras. You can see the object details from different perspectives, and monitor its moving path with both PTZ and still cameras simultaneously. When an intrusion is detected, the still camera will automatically direct the PTZ camera to track and zoom in to follow the motion within the larger field-of-view until motion stops or the object exits the PTZ camera's 360-degree coverage area.

In addition, a PTZ camera equipped with huperTracker can cruise at preset positions. However, when three still cameras detect intrusions at the same time, the still camera with higher priority will send commands to the PTZ camera to follow the motion. The PTZ camera will leave its preprogrammed tour and begins following the motion.

This breakthrough technology makes huperTracker incredibly effective in protecting warehouses, storage yards, parking lots, or any large area in need of hands free surveillance.

## Key Features

### Multi-camera Associated Tracking

#### Multi-zone Tracking

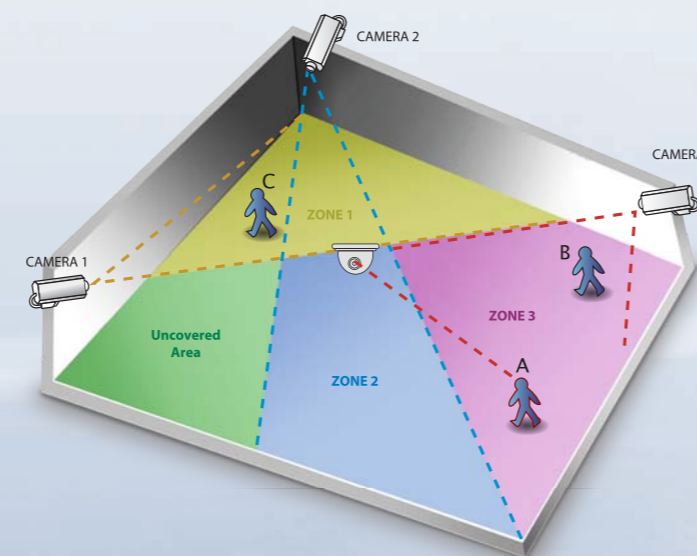
huperTracker lets you define the precaution level of each surveillance area by prioritizing its guardian camera. The PTZ camera will track the target in the highest security area when intrusions are detected in multiple surveillance areas.

#### Multi-intrusion Tracking

huperTracker enables you to define which intrusion the PTZ should target first when multiple intrusions occur in the same field of view. For Instance, users can set the PTZ camera up to follow the fist intrusion or the last intrusion, and so forth.

#### Two-camera Auto Tracking

A still camera directs the PTZ camera to track and zoom in on the moving object when an intrusion is detected. The PTZ camera remains tracking even after the intrusion leaves the still camera's field of view.



Zone 3 is the highest security area, zone 2 is the middle security area, and zone 1 is the lowest security area. When intruder A, B, and C enter the surveillance area in order, PTZ camera will automatically track the intruders who are at zone 3 with the highest priority. In the condition of "Fist In, First Serve (FIFS)," the PTZ camera will automatically track intruder A because intruder A entered zone 3 earlier than intruder B.



### Single PTZ Auto Cruise & Tracking

The PTZ camera cruises in preset sequence when no intrusions occur. It automatically tracks the moving object once the motion is detected during the auto cruise. huperTracker enables you to filter unmatched targets by object size, and adjust motion sensitivity or noises to increase accuracy.

### PTZ Camera Manual Tracking

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### PTZ Camera Auto Zoom-in

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### On-Screen PTZ Control

huperTracker allows you to define a specific region, then the PTZ camera will zoom in and turn the region into a near full-screen display automatically.

### Detection Mask

Allow users to specify which areas to detect, and mask out irrelevant areas.

### Easy & Flexible Camera Deployment

You are not restricted to have your PTZ camera tied with another single still camera for concurrent tracking. huperTrackers allows you to freely install PTZ and still cameras depending on your needs. On-screen coordinate setup provides an easy way to match the coordinates of still and PTZ cameras.

### Suitable for Large Area Surveillance

huperTracker allows the PTZ camera to cooperate with at a maximum of 3 still cameras. It's particularly suitable for large area surveillance.

### Unattended Operation

huperTracker provides 24/7 unattended surveillance with the integration of PTZ and still cameras. A still camera will automatically direct the PTZ camera to track and zoom in on the target when an intrusion is detected.



## System Layout

