

SMART FEATURES

VCA UNIVIEW SMART FEATURES

Uniview has introduced a variety of new smart features that are essential in the CCTV and security industries. Adding the smart features to Uniview devices is simply an update to the device's firmware. Uniview's current smart features include Cross Line, Intrusion Detection, People Counting, and Face Detection. Note: Most Smart Features will only work correctly and at their best if the camera is installed at the correct angle and position.

CROSS LINE

Cross Line detection allows for cameras to start recording, trigger an alarm, send an email, and more when an object crosses a specified pre-drawn line. In the following image the pink line is tracking people in both directions from a to b and b to a. It can also be set to track from a to b only or from b to a only.

The screenshot shows the UNV web interface for configuring Smart Alarm features. The left sidebar contains a navigation menu with categories: Common, Network, Video & Audio, Image, Intelligent, Events (with sub-items Common Alarm and Smart Alarm), Storage, Security, and System. The main content area is titled 'Crossing line' and includes tabs for 'Intrusion' and 'Face Detection'. The 'Cross Line Detection' section is active, showing a live camera feed of a warehouse aisle with a pink line drawn across it. To the right of the feed are configuration options: 'Detection Area' (showing 'Line1'), 'Area1' settings (Trigger Direction: 'A<->B', Sensitivity: 90), 'Alarm Triggering Mode' (with checkboxes for Alarm Output, Upload to FTP, and Trigger E-mail), and 'Enable Plan' (with 'Arm' selected and a calendar grid for scheduling). A 'Save' button is located at the bottom of the configuration panel.

INTRUSION DETECTION

Intrusion Detection allows for cameras to start recording, trigger an alarm, send an email, and more when someone or something enters a designated pre-drawn area in the image. In the following image the pink lines draw out an area that is now set as the detection area. The timeframe that the device detects intrusions in the area can be set to stop false detections. You can also set what percentage of the area the object has to intrude upon to trigger the event. This stops small things such as leaves from triggering the intrusion alarms.

UNV Live View Playback Setup

Common Network Video & Audio Image Intelligent Events Storage Security System

Crossing line Intrusion Face Detection

Intrusion Detection



Detection Area +

- Area1

Area1

Time Threshold(s)

Sensitivity

Percentage

Alarm Triggering Mode

Alarm Output Upload to FTP Trigger E-mail

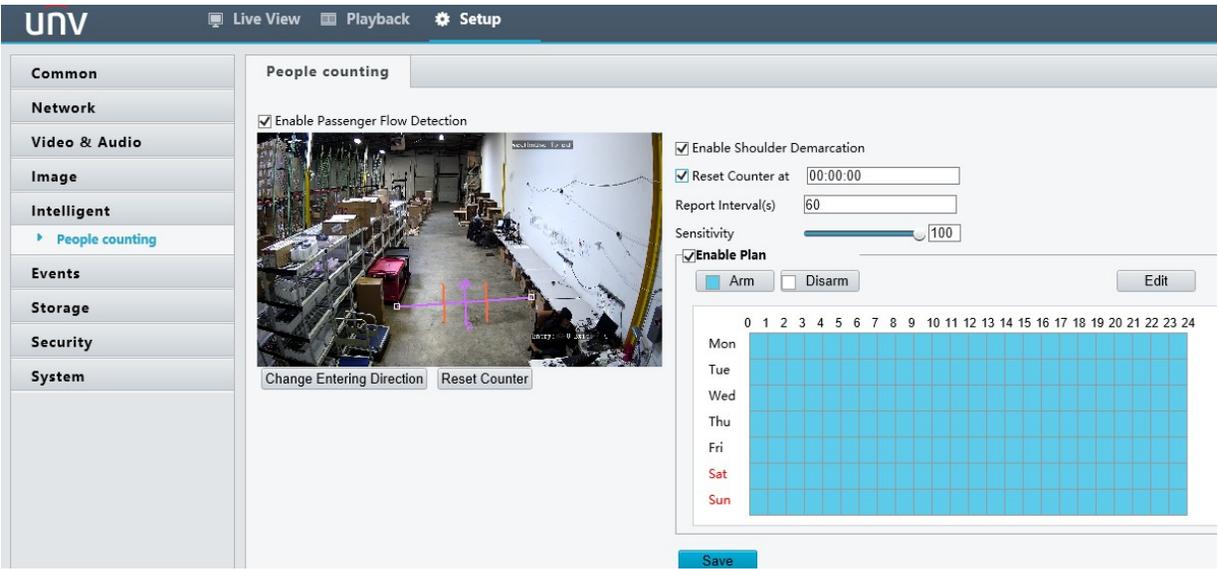
Enable Plan

Arm Disarm

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									
Sun																									

PEOPLE COUNTING

People Counting will show a live up-to-date counter on the camera's image of how many people have entered and exited. It judges by a pre-drawn line that can be set up to tell whether people crossing are entering or exiting. In the following image the pink line is the cross line that triggers the counter. The entry and exit direction for the line can be set in the settings by clicking the Change Entering Direction Button. The two vertical red lines help detect humans more accurately by setting up shoulder size.



The image below shows the counter that will display on the cameras live image. The counter can be reset by hand or can roll over based on a set time.

Entry: 0 Exit: 0

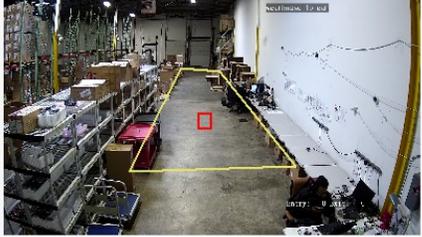
FACE DETECTION

Face Detection can detect and store snapshots of faces that are detected in a pre-drawn area. Non-Individual face snapshots can then be searched for and displayed in a grid, each face snapshot will then display the 5 minutes of footage around when that face appeared in the image. In the following image, the Yellow box is the area in which the camera will be detecting faces. The red square inside the yellow area is indicating how large someone's face has to be in order for the camera to save the screen shot of it, meaning that their face/head must be larger than the red box. This makes false detection a lot less likely.

- Common
- Network
- Video & Audio
- Image
- Intelligent
- Events
 - Common Alarm
 - Smart Alarm
- Storage
- Security
- System

Crossing line Intrusion Face Detection

Face Detection



Note: The red rectangle should be fully covered by face and can be dragged.

- Detect All Faces
- Detection Area

Sensitivity

Alarm Triggering Mode

- Alarm Output
- Upload to FTP
- Trigger E-mail

Enable Plan

Arm Disarm

Edit

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									
Sun																									

Save