

Installation & Configuration of ITC314



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CONTENTS

1

Model Recommendation

2

Camera View Adjustment

3

Event Configuration

4



Camera Installation



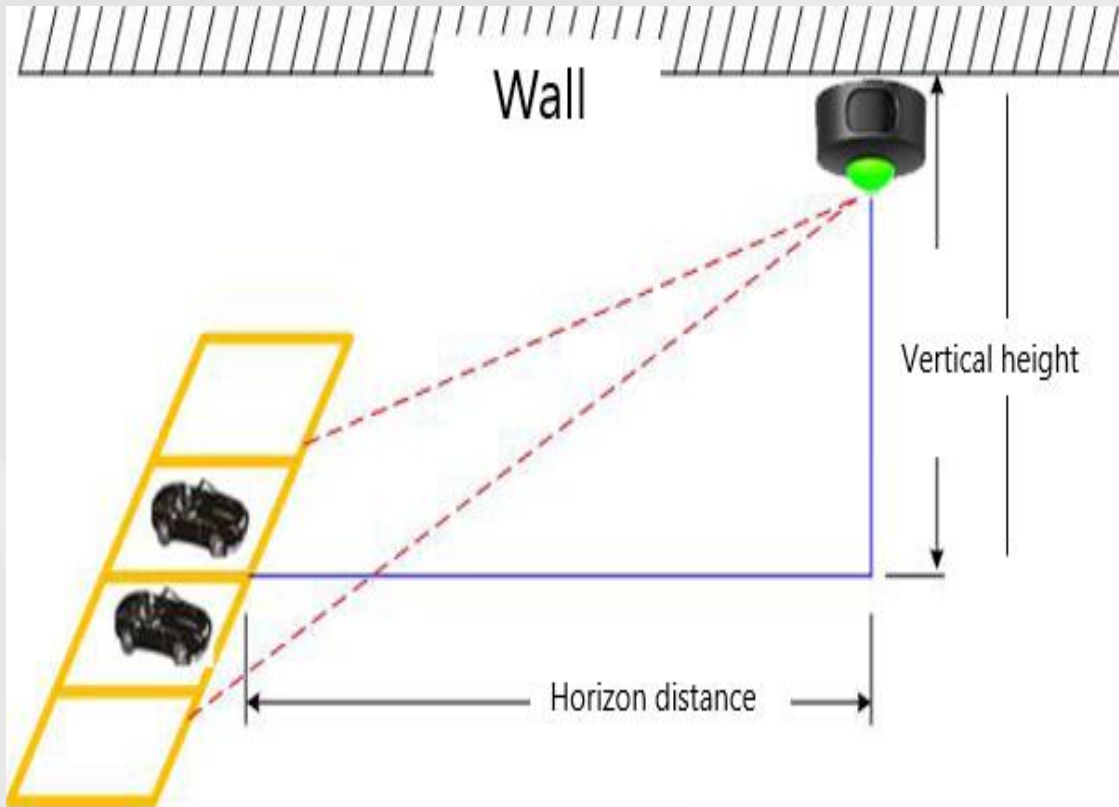
Model Recommendation



Model Recommendation

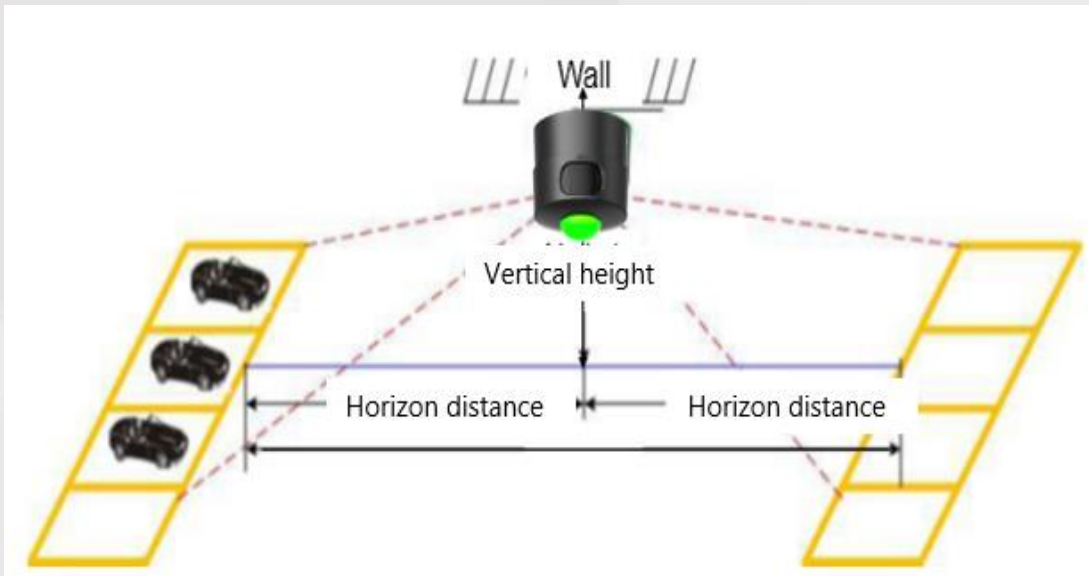
Category	Type	Name	Appearance
Space Detection Camera	3 rd Generation 2MP Detection Camera	ITC214-PH2A-F3	
		ITC214-PH2A-F6	
	3 rd Generation 3MP Detection Camera	ITC314-PH2A-F2	
		ITC314-PH2A-F3	
	3 rd Generation 3MP Duel-lens Detection Camera	ITC314-PH2A-TF2	
		ITC314-PH2A-TF3	

Model Recommendation (2MP)



Model	Resolution	Lens	Installation		
			Horizon Distance	Vertical Height	Monitor Range
ITC214-PH2A-F6 ITC214-PH2A-F3	1920×1080	6mm	6~6.8m	2.3~2.6m	Cover 2 parking space width is 5m
		3.6mm	3.0~4.7m	2.3~2.6m	Cover 2 parking space width is 5m

Model Recommendation (3MP)



Model	Resolution	Lens	Installation and Monitoring Range		
			Horizon Distance	Vertical Height	Monitor Range
Dual lens ITC314-PH2A-TF3 ITC314-PH2A-TF2 with 6 parking space at 2 sides, 3 parking spaces at each side	2048×1536	3.6mm	3.6~5.2m	2.5~2.6m	Each side can cover 3 parking space width is 7.5m
		2.8mm	2.5~3.5m	2.5~2.6m	Each side cover 3 parking space width is 7.5m
Single lens ITC314-PH2A-F3 ITC314-PH2A-F2	2048×1536	3.6mm	3.6~5.2m	2.5~2.6m	Cover 3 parking space width is 7.5m
		2.8mm	2.5~3.5m	2.5~2.6m	Cover 3 parking space width is 7.5m



Camera View Adjustment

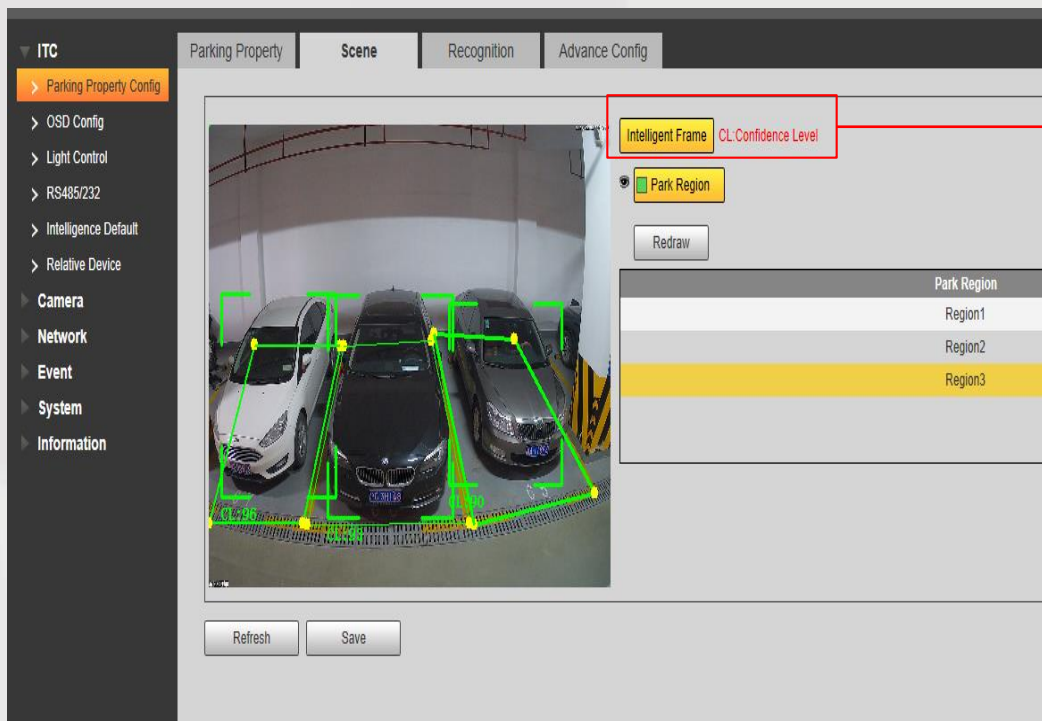
Camera View Adjustment



3 parking lots are in the middle of whole view



Camera View Adjustment—Intelligent Frame



You can click **intelligent frame** to see the confidence level of each vehicle parked on the parking spaces.



Meanwhile, the confidence level and the license plate will be displayed on the preview





Event Configuration

Event Configuration

01



Set parking property

02



Define recognition rule

03



Configure image parameter

04



Choose light model



Set Parking Property

ITC

- > Parking Property Config
- > OSD Config
- > Light Control
- > RS485/232
- > Intelligence Default
- > Relative Device
- ▶ Camera
- ▶ Network
- ▶ Event
- ▶ System
- ▶ Information

Parking Property | Scene | Recognition | Advance Config

Enable Capture 1 2 3

Parking Zone

Parking

Customize Parking No.

Event Config

Event Type	Confirm Frames
<input checked="" type="checkbox"/> Vehicle Parking	<input type="text" value="5"/>
<input checked="" type="checkbox"/> No Vehicle Parking	<input type="text" value="7"/>

Refresh Save

Logistic No. of camera

Real No. in parking lots

The confirm frame is used to confirm the parking status of each parking space. For example, the **confirm frame is 5** for vehicle parking, the parking status will only be changed to **vehicle parking** when the detection results are vehicle parking for **continues 5 frames**.

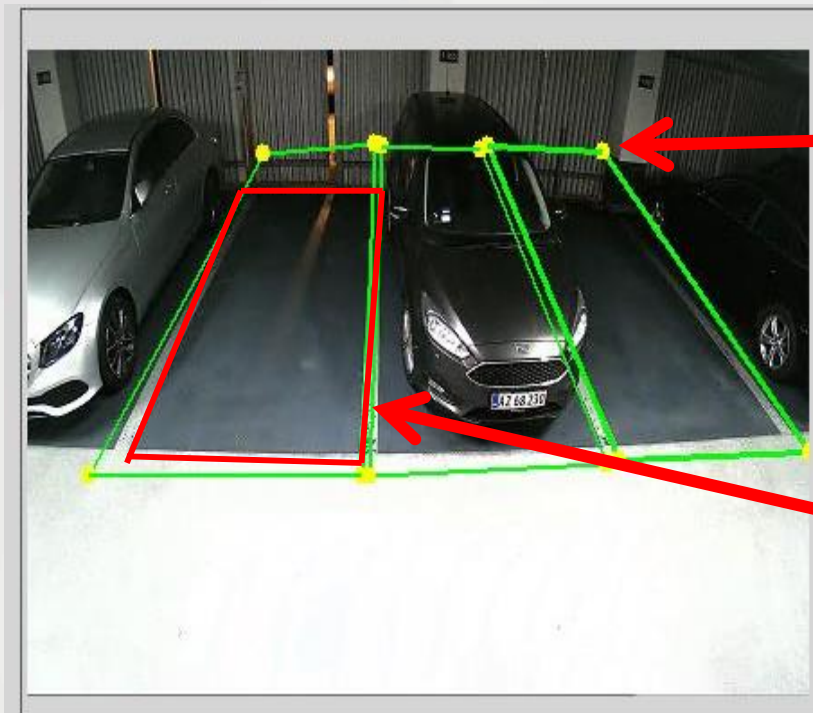
Normally, we suggest the user don't change these two values and just leave them as default values.

Define Recognition Rule

➤ Follow the Path: ITC → Parking Property → Scene



Draw the **Detection Area** along the edge of real lot



Green square: Wrong detection area, because not suitable for the real space line

RED square: Right detection area, suitable for the real space line

Define Recognition Rule

➤ Follow the Path: ITC ➔ Parking Property ➔ Recognition

ITC

> Parking Property Config

> OSD Config

> Intelligence Default

> Relative Device

Camera

Network

Event

System

Information

Parking Property | Scene | Recognition | Advance Config

Capture UnlicensedVehicle Sensitivity UnlicensedVehicle: High

Vehicle Sign

Local Plate: UN

Plate Size(Unit:Pixel)

Min Width: 130 Max Width: 300 (70-600)

Min Height: 15 Max Height: 100 (10-100)

Detection Threshold (Not recommended to modify): 0 - 20 - 60 - 100

Refresh Save

Choose local plate type according to your needs:
EU: only recognize EU's Plates
UN: recognize both EU and Russian plates

Use the default value, no modification is recommended

Vehicle shape Confidence Level: 0-A-B-100

Determine Parking status

0-A:

No vehicle parking(even detect license plate)

A-B:

Detect License Plate=Vehicle Parking

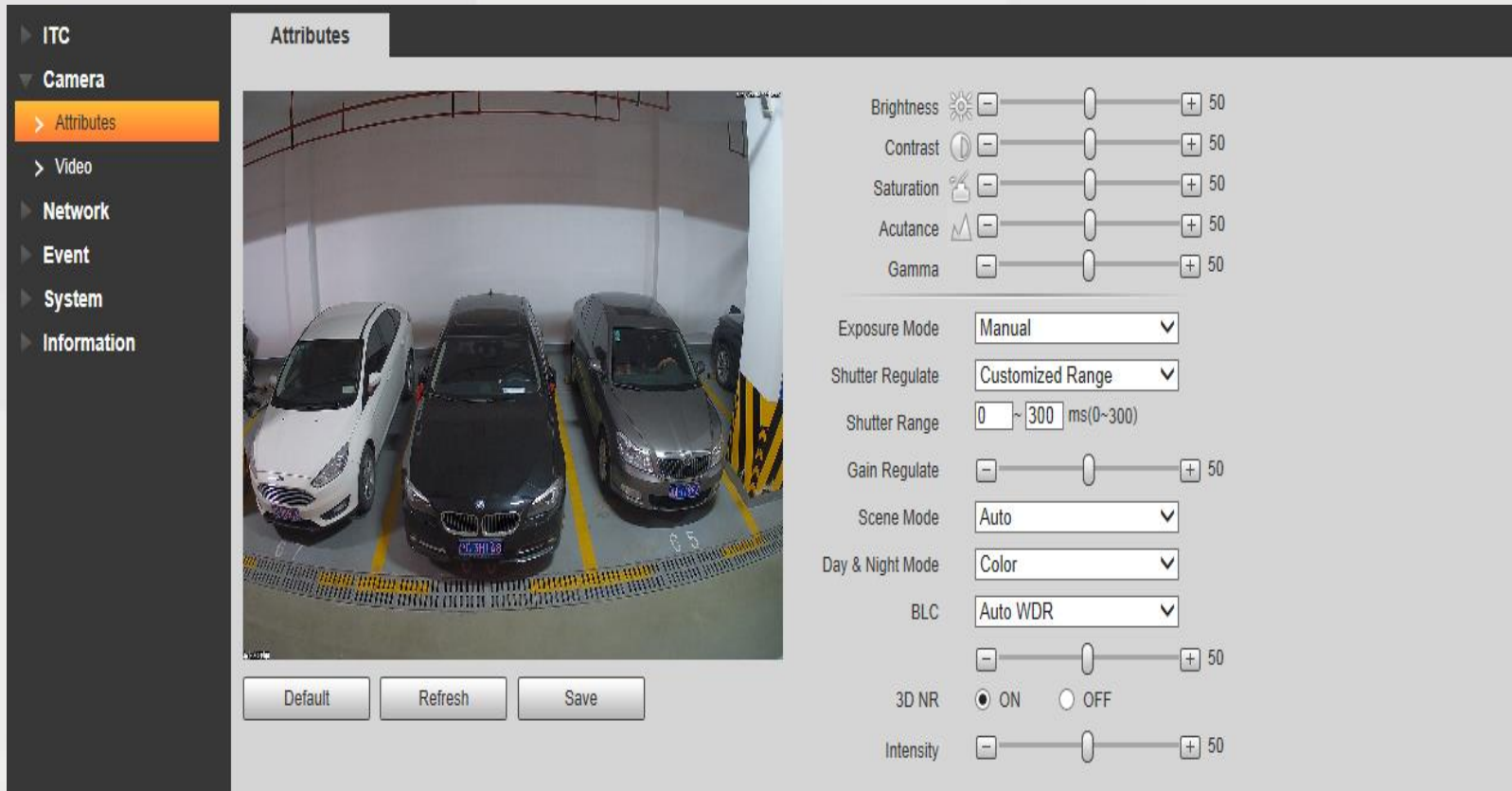
Doesn't detect license Plate=No vehicle Parking

B-100:

Vehicle Parking(even no license plate)

Configure Image Parameter

➤ Follow the Path: Camera ➔ Attributes



The screenshot displays the 'Attributes' configuration page for a camera. On the left, a sidebar menu lists 'ITC', 'Camera', 'Attributes' (highlighted), 'Video', 'Network', 'Event', 'System', and 'Information'. The main area features a live video feed of three cars in a parking garage. Below the feed are 'Default', 'Refresh', and 'Save' buttons. To the right of the feed is a control panel with the following settings:

- Brightness: Slider (0 to 50)
- Contrast: Slider (0 to 50)
- Saturation: Slider (0 to 50)
- Acutance: Slider (0 to 50)
- Gamma: Slider (0 to 50)
- Exposure Mode: Manual (dropdown)
- Shutter Regulate: Customized Range (dropdown)
- Shutter Range: 0 ~ 300 ms(0~300)
- Gain Regulate: Slider (0 to 50)
- Scene Mode: Auto (dropdown)
- Day & Night Mode: Color (dropdown)
- BLC: Auto WDR (dropdown)
- 3D NR: ON (radio button)
- Intensity: Slider (0 to 50)

Normally, there is no need to change any image parameter on PH2A series devices.

Change Light Model

Light Control

Light Sensitivity Config

Licensed Sensitivity: 4 (2-100)

Unlicensed Sensitivity: 4 (2-100)

NoVehicle Sensitivity: 5 (2-100)

Light For ParkingSpaces Status

Space Free: Green Twinkle ■

Space Full: Red Twinkle ■

Parking light config

	Parking1	Parking2	Parking3	Parking4	Parking5	Parking6
Internal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
External1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
External6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Default Refresh Save

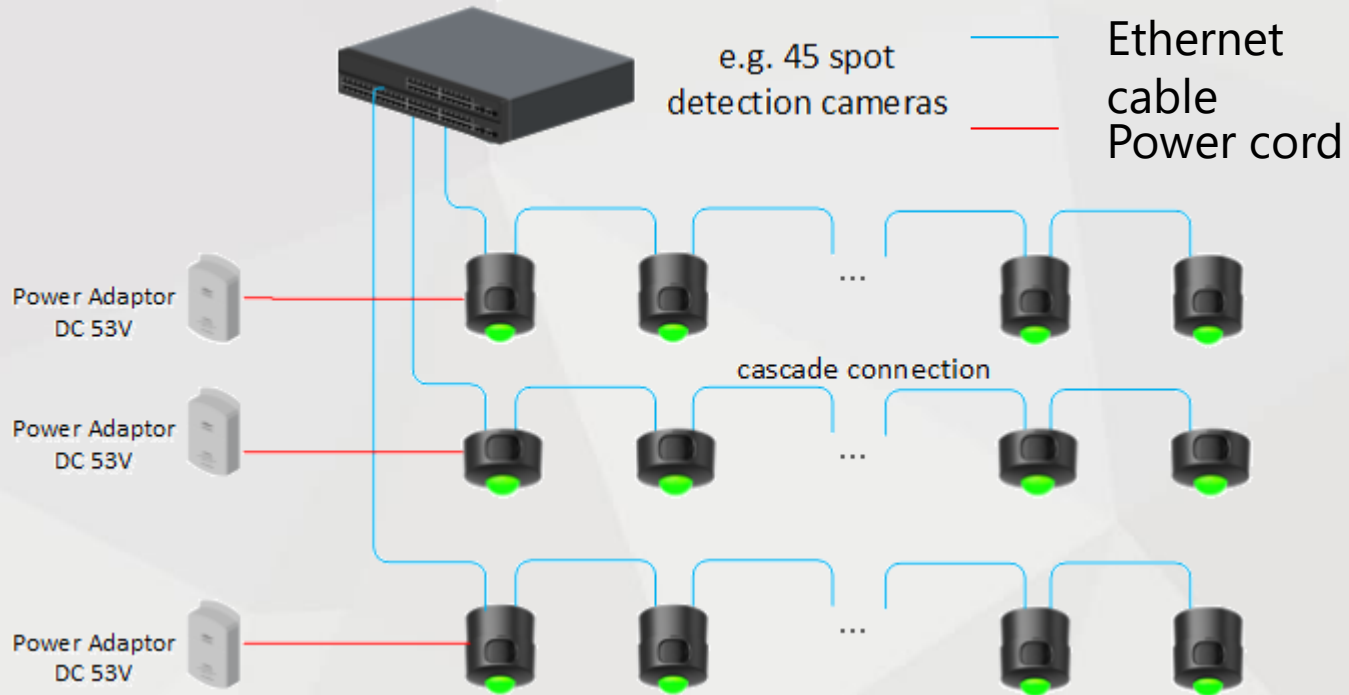
Choose lights for
different status

Control external lights



Installation

Installation| Innovative Way (Recommend)

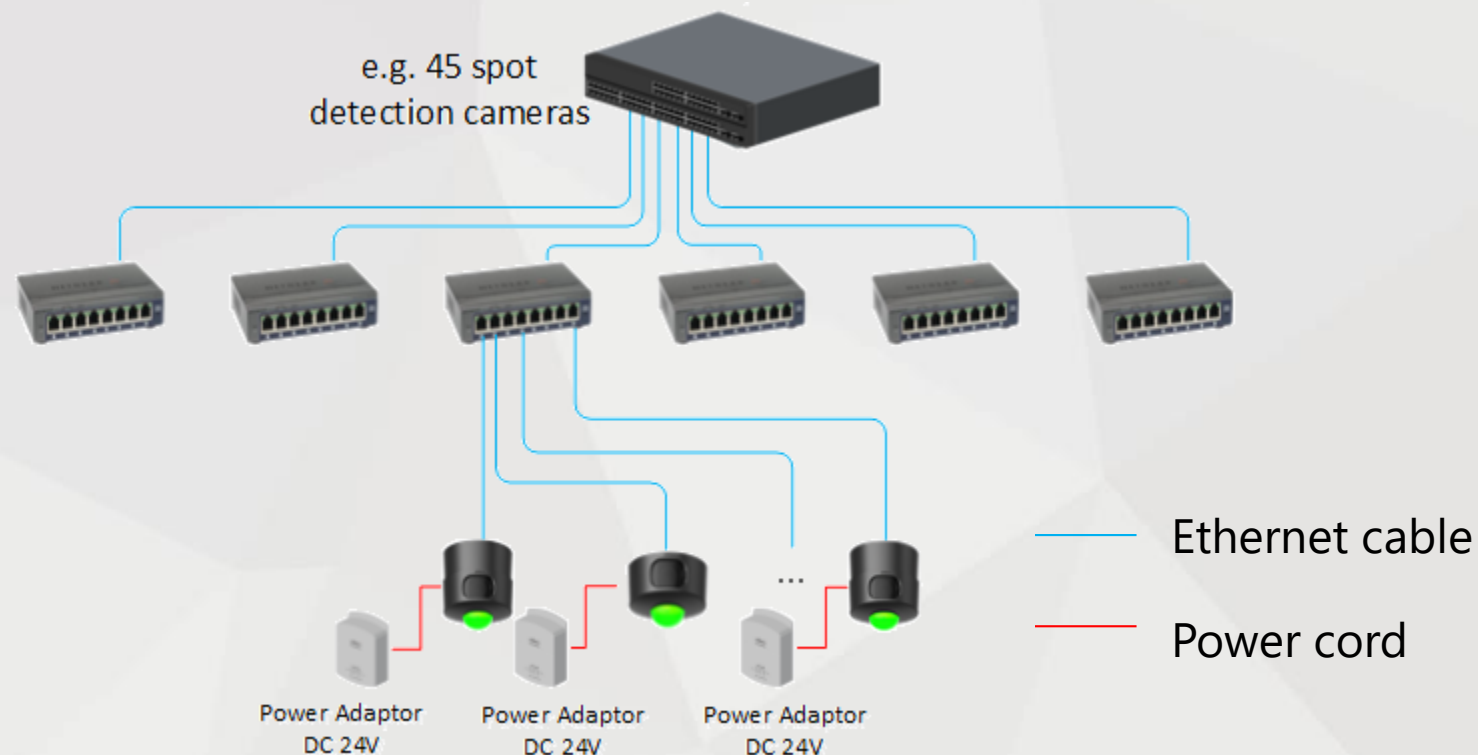


The innovative way is also named as Power via Ethernet (PvE).

Wide voltage design: DC 12~53V.

- A power adaptor is required at the first device of the line, and the other devices can be powered via Ethernet cable.
- For PvE power supply, one DC 53V is recommended for each line.
- Up to **10 single-lens cameras** or **6 dual-lens cameras** on a line (100m at most).

Installation| Traditional Way



You can also use the traditional way to power up the devices.

Wide voltage design: DC 12~53V.

- Power supply > power of cameras *1.3 (single lens 6W, dual lens 11W)
- For centralized power supply, DC 24V, 5A is recommended.
- Up to **10 single-lens cameras** or **6 dual-lens cameras** on a line (100m at most).

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