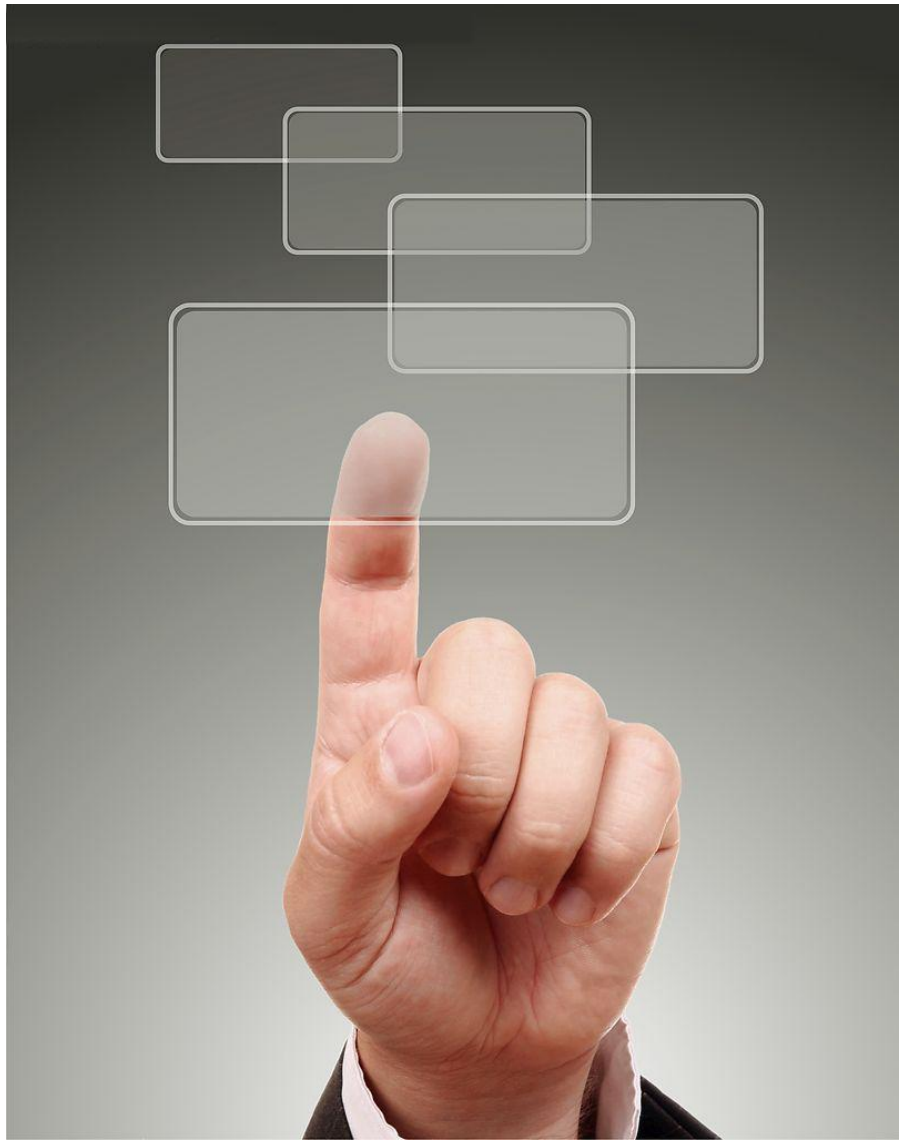
LPR Camera Installation and Configurations Guide

Content

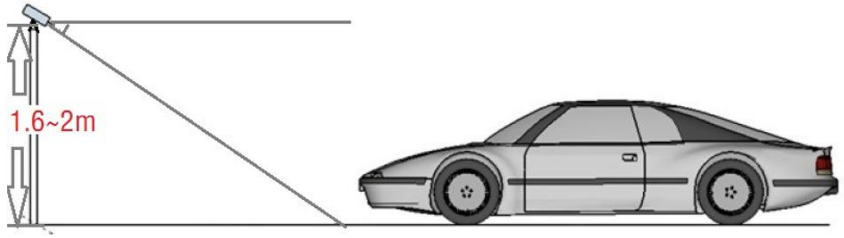


- LPR Camera installation
- LPR camera configurations
- Other cases

The camera installation

1, For entrance surveillance:

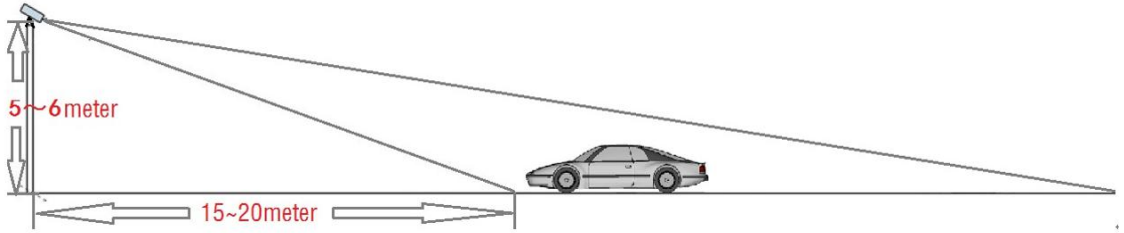
Camera should be installed at **2 meters height**



2, For Road Traffic Surveillance:

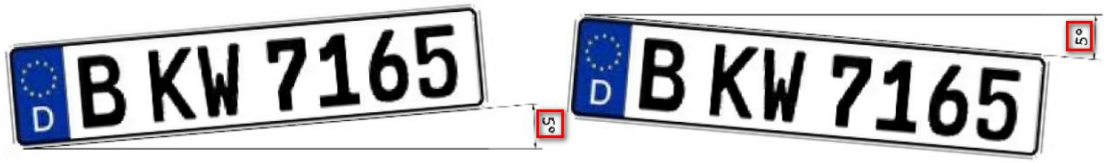
Camera should be installed at **5~6 meters height**

The video bottom edge target should be about **15~20meters** far from the camera pole.



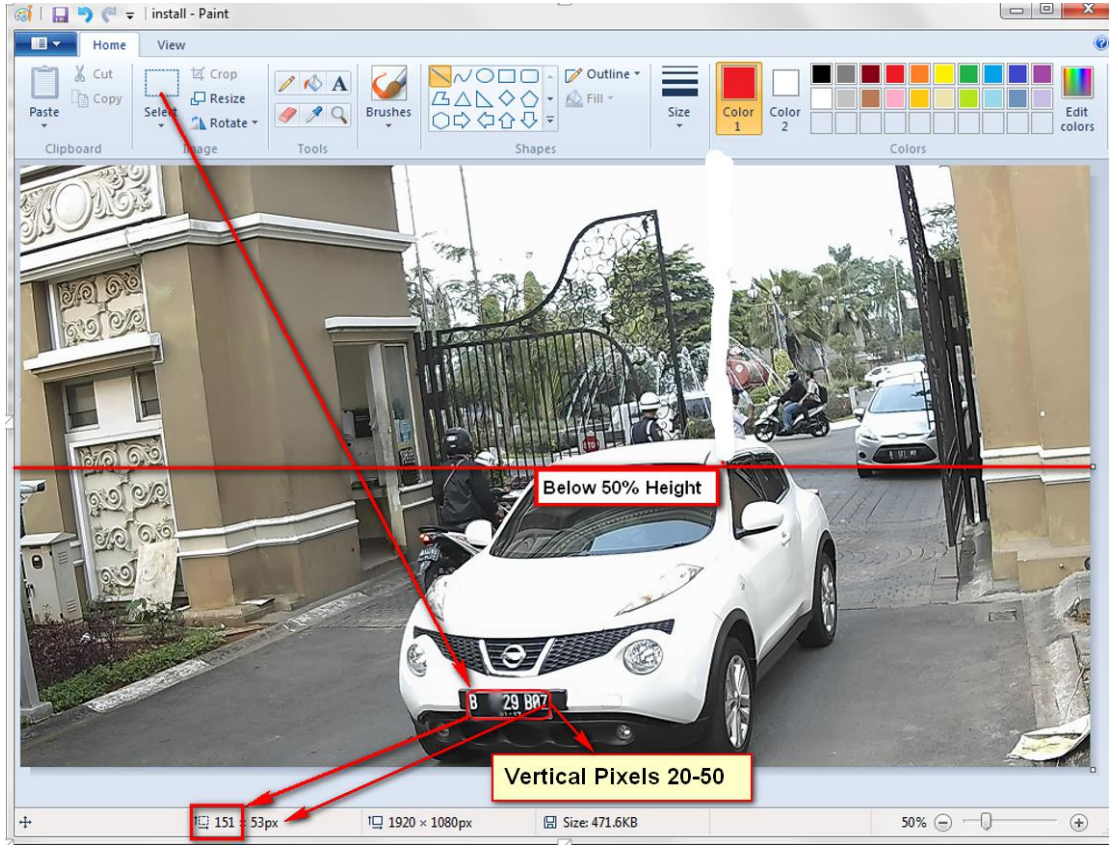
The camera installation

3, License plate tilt angle must be within +/-5 degrees.



Solution: Keep the camera in horizontal level with the ground

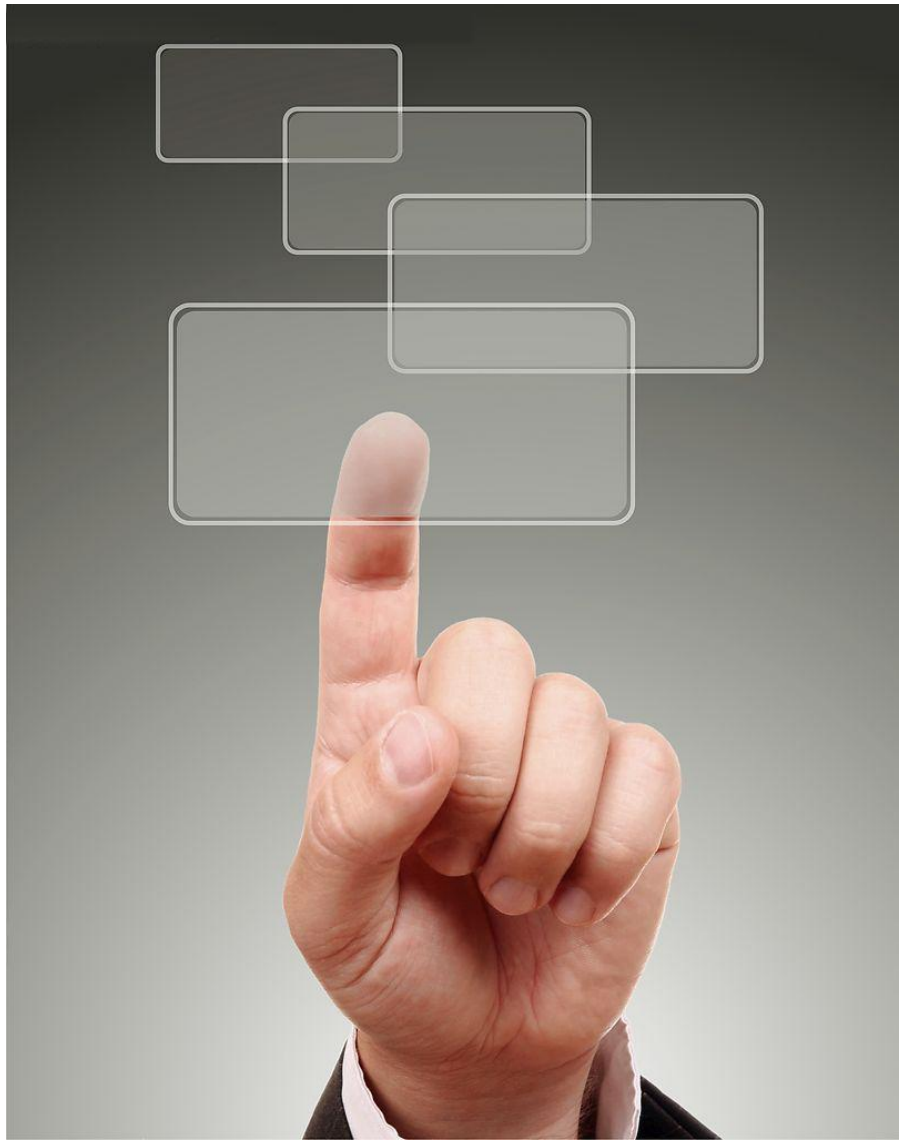
4, License plate **vertical pixels** must be **20-50 px**



"**Edit**" the picture→ "**Select**"→ check the **vertical pixels**

Solution: **adjust the lens focus distance !**

Content



LPR Camera installation

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Other cases

Camera configurations

Example:

- WDR OFF
- Default shutter time is 1/150
- Default gain is 20
- Default setting

Configuration 1-- Gain (WDR off)

Gain = 20

Gain = 30

Parking system Gain 20-30

Gain = 40

Gain = 50

Configuration 1-- Gain (WDR On)

Gain = 20

Gain = 30

Parking system Gain 20-30

Gain = 40

Gain = 50

Configuration 2--WDR (OFF VS ON)

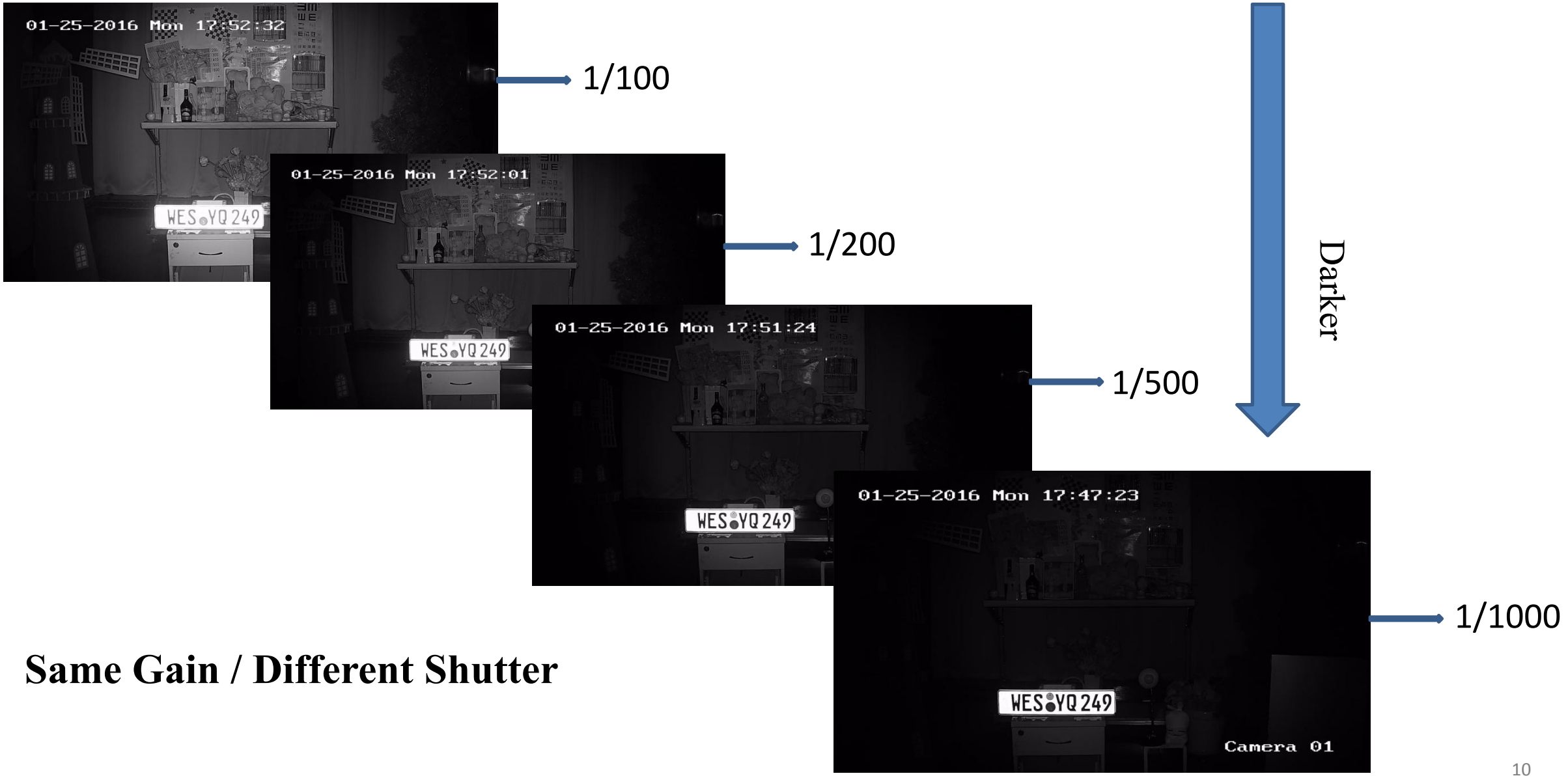
WDR OFF

WDR ON

Tips:

1、The contrast of license plate with WDR OFF is better than the WDR ON.
2、The license plate number with WDR OFF looks clear, that's good for LPR.
3、More details with WDR ON than WDR OFF.

Configurations 3--Shutter



Same Gain / Different Shutter

Configurations 3--Shutter

Shutter 1/25

Shutter 1/1000

1、Long exposure time, the moving license plate is **fuzzy** .

2、Short exposure time, the moving license plate is clear. But it's very **dark**.

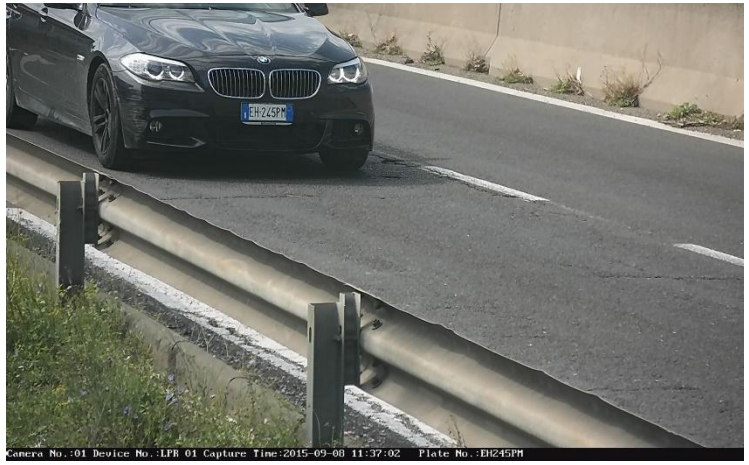
Low speed(<30km/h) → **Shutter 1/150-1/250**

Parking System -- Projects

Configurations 3--Shutter

Medium speed (30-60km/h) → **Shutter 1/250-1/500**

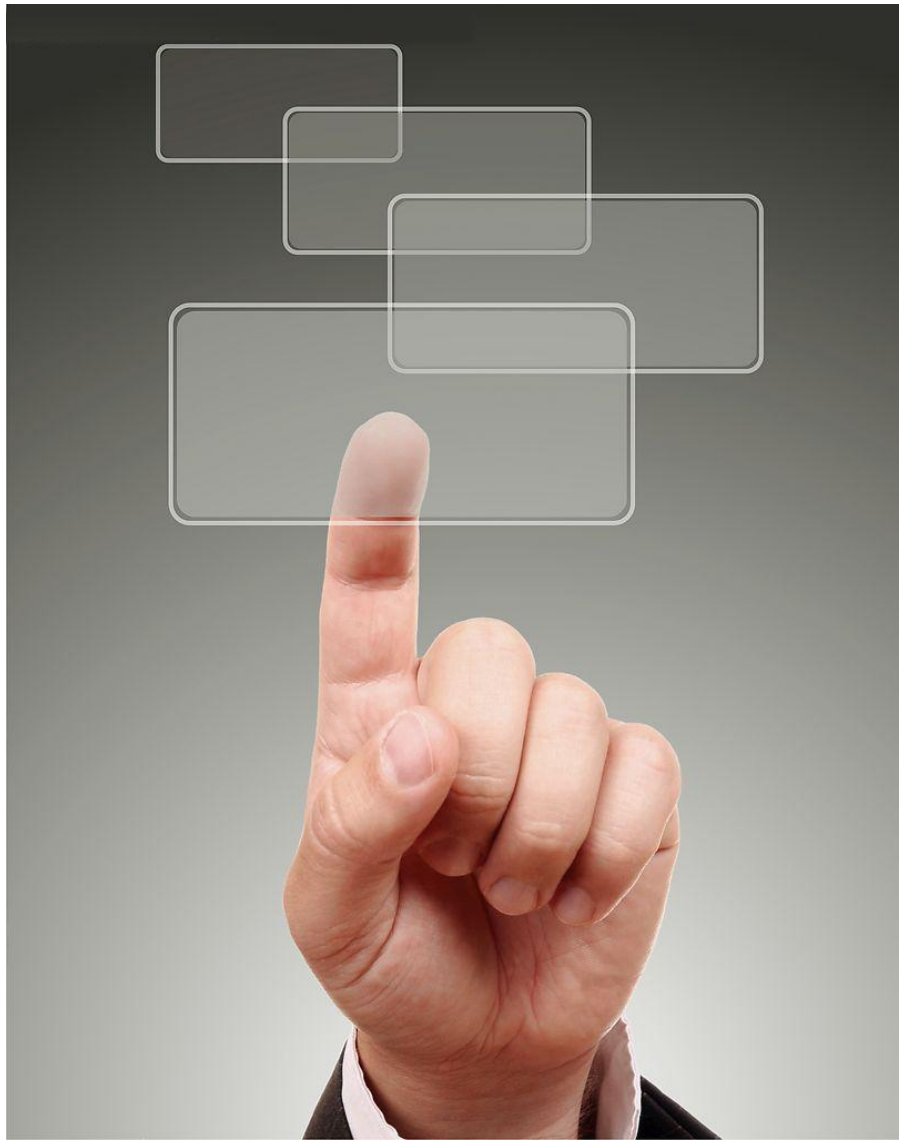
Street Environments



High speed (>60km/h) → **Shutter 1/500-1/1000**

High Way Environments

Content



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License Plate Angle < 5 degrees

✓

✗

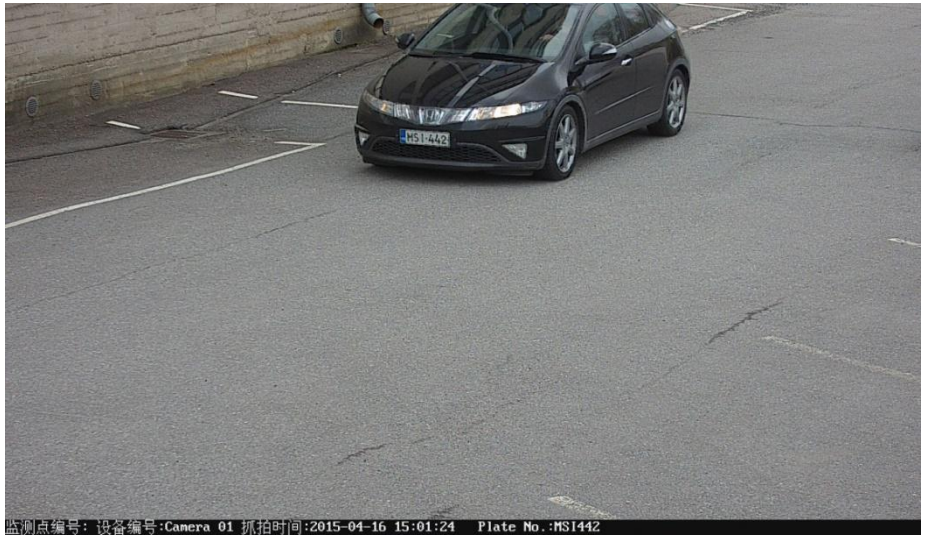
✓

✗

Keep the camera in the horizontal level with the ground

License Plate Vertical pixels < 20 pixels (better from 20-50)

✓



✗

✓

✗

Adjust the lens focus distance

Thanks!

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