



VMGB-400

VMGB-405

Installation Guide

2019/10/02



ACTi
Connecting Vision

Thank you for purchasing ACTi products and solutions. The following documentation covers basic installation instructions of your device.

NOTE: The accuracy of the analytics algorithm may be affected by different environmental factors or inappropriate installation. Please follow the procedures in this guide. ACTi will not be liable for inaccuracies resulting from the aforesaid causes.

Camera Model Selection

The recognition distance between the camera and the target varies based on the camera focal length. You should select the proper focal lens in order to get enough pixels in the frame.

The table below is for your reference:

Camera Model	Lens Focal Length (mm)	Min recognition distance (m)	Max recognition distance (m)
VMGB-400	2.8-12	2.5	12
VMGB-405	8-32	7.2	28.9

Camera Installation

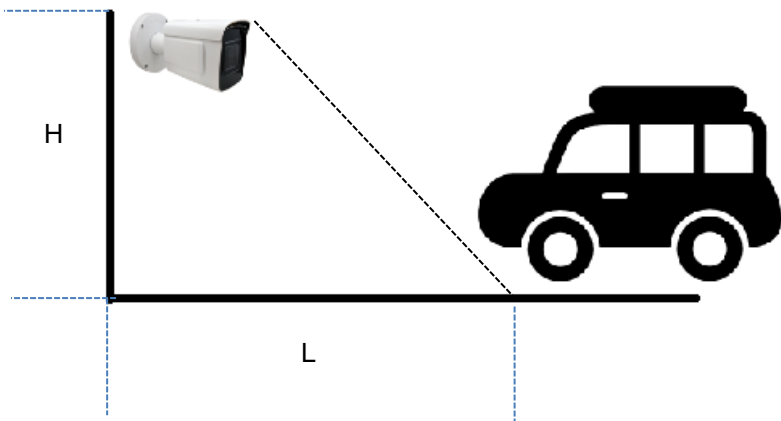
In order to get the best accuracy, please follow the guidelines below when installing your device.

1. It is recommended to use one device to cover one lane.
2. It's recommended that the height of a license plate should be at least 20 to 30 pixels.



Camera Installation Height

Take note of the recommended installation height (H) and its corresponding detection distance (L). The detection distance can be calculated as: $L = \tan 30 \times H$



Height(m)	Min L(m)
1.5	4
2	4
3	5.1
3.5	6
4	6.8

Camera Installation Angle

To obtain the best license plate recognition accuracy, install your device with a proper angle to get a clear image.

Entrance

Horizontal angle
The view angle of the camera should be within 30 degrees to the path of movement.

Vertical angle
The angle between lens direction and horizontal should be less than 30 degrees.

Road

Horizontal angle
Should not exceed 30 degrees

Vertical angle
Should not exceed 30 degrees

License Plate Tilt Angle

The license plate should be as horizontal as possible. If a slight tilt cannot be avoided, be sure to limit it within +/- 5 degrees.



Example of License Plate Tilt Angle

In addition, place the VMGB-400 in the detection area where the vehicles will go as straight as possible, without turning left or right.



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7F, No. 1, Alley 20, Lane 407, Sec. 2, Ti-Ding Blvd., Neihu District, Taipei, Taiwan 114, R.O.C.

TEL : +886-2-2656-2588 FAX : +886-2-2656-2599

Email: sales@acti.com