DHI-ITALF-300AD-IR

IR Illuminator

- Trigger mode: Pulse width trigger/edge trigger.
- Spot coverage: 4 m (13.12 ft) (installation height: 6 m (19.69 ft), capture distance: 26 m (85.30 ft).
- Brightness adjustable: Brightness levels 1–16 can be set.
- Day/Night: Supports day/night switch. Sensitivity levels 1–6 can be set.

System Overview

The illuminator is a high-performance auxiliary light source for the intelligent traffic field. The illuminator is featured by: Lifespan of up to 10 million times with intelligent control and heat insulation design; thermal dissipation design helps prolong the lifespan of the illuminator; brightness is adjustable according to the ambient brightness for reduced light pollution.

Functions

Voltage Regulation
Advanced voltage regulation technology for accurate and stable voltage control.

Impressive Light Supplement Performance
Excellent light supplement performance for snapshot: When the illuminator is connected to a camera, it will supplement light for snapshot after it receives flashing signals from the camera.

RS–485 Communication
Supports RS–485 communication function; can be connected to client for parameter setting and brightness adjustment; supports upgrade through serial port.

Short Recycle Time
Recycle time is less than 60 ms, meeting the time requirements of taking 2 snapshots consecutively.

On-off Trigger
On-off trigger switch facilitates testing whether the illuminator runs normally.

Anti-interference
Pulse width trigger: Filter interference signal on the installation pole by detecting pulse width signals of fixed width. This helps enhance reliability of the illuminator.

Photosensitive Detection
Automatically adjust brightness through photosensitive detection.

Flashing Statistics
Supports statistics of flashing times and trigger times for fast recognition of signal interference issues on site.

Avoiding False Detection
Supports blocking interference signals triggered by false detection: When the external triggering frequency is greater than the false detection limit (3 by default, that means 3 flashes are allowed in 500 ms, 4 flashes in 1 s, and 8 flashes in 3 s), the protection mode will be enabled, and the illuminator will not respond to next trigger signal until 10 s after the interference signal disappear.

High Protection Level
Excellent waterproof and dust-proof performance for enhanced protection level.

Excellent Thermal Dissipation
Internal thermal dissipation design helps prevent the illuminator from overheated damage on account of high-frequency flash.

Scene

The illuminator is primarily used for ANPR and E-police systems to provide lights for recognizing license plates (especially at night) and other vehicle attributes (such as vehicle models), and capturing traffic violations.

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Technical Specification

Basic

Illuminator Type	IR xenon illuminator
Recycle Time	≤ 60 ms, meeting the time requirements of taking 2 snapshots consecutively by the camera
Spot Coverage	4 m (13.12 ft) (installation height: 6 m (19.69 ft), capture distance: 26 m (85.30 ft))
Center Illuminance	≤ 4000 lx
Trigger Mode	Pulse width trigger/edge trigger
Illumination Distance	16 m–26 m (52.49 ft–85.30 ft)

Xenon

Exposure	64 GN
Flash Duration	180 us–500 us
Flashing Statistics	Supports statistics of flashing times and trigger times
Lifespan	≥ 10 million times
Light Source	Visible light

Function

Day/Night	Yes. Sensitivity levels 1–6 can be set
Remote Fault Display	Supports remotely displaying the running or fault status of the illuminator on the web interface of camera (only Dahua traffic enforcement cameras)
Brightness	Yes. Sensitivity levels 1–16 can be set
Capture and Flash Synchronization	Yes
False Trigger Shielding	Yes
Anti-interference	Filters interference signal by detecting pulse width signals of fixed width

Port

I/O	1
Flash	1
RS-485	1

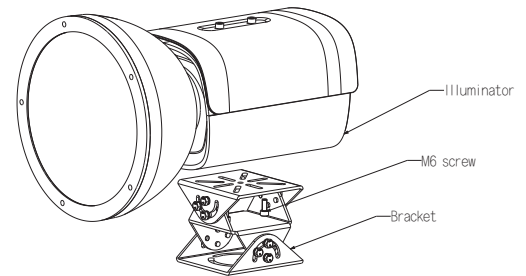### General

Power Supply	220V AC±10%
Power Consumption	Xenon: < 65J/time, instantaneous power ≤ 5500 W
Operating Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Operating Humidity	10%–90% (non-condensation)
Protection Grade	IP66
Dimensions	358.5 mm × 251.6 mm × 170.8 mm (14.11'' × 9.91'' × 6.72'') (L × W × H)
Net Weight	4.5 kg (9.92 lb)
Gross Weight	5.0 kg (11.02 lb)
Installation	Installed on pole by using bracket

Ordering Information

Type	Model	Description
IR Illuminator	DHI-ITALF-300AD-IR	IR xenon illuminator
Accessory	8018	Bracket, optional, needs to be purchased separately

Installation

Dimensions (mm[inch])