

KX-F42FL

Warm Light LED All-in-one Illuminator



- Integrates functions such as LED strobe, flashlight illumination and RS-485 maintenance.
- Adjustable pulse width of the strobe and flashlight meets the brightness requirements of different scenarios.
- Displays the error status of the illuminator on the camera web interface.
- Less than 10 ms flash interval allows the camera to capture multiple snapshots.

Technical Specification

Basic

Illuminator Type	LED
Light Source	Visible light
Color Temperature	3500 K
Center Illuminance	< 40 lx (20 m away from the illuminator)
Trigger Mode	Pulse width trigger/edge trigger
Spot Coverage	3 standard lane (installation height: 6 m (19.69 ft), capture distance: 26 m (85.30 ft))
Illumination Distance	16 m–26 m (52.49 ft–85.30 ft)
Flash Interval	≤ 60 ms, meeting the time requirements of taking 3 snapshots consecutively by the camera

LED

Frequency	50 Hz/100 Hz
Number of LED	42 (imported white LED)
Luminous Flux	1800 lm
Color Rendering Index (CRI)	> 65
Strobe Pulse Width	0 ms–3 ms
Strobe Delay	0 ms–4 ms
Flash Pulse Width	0 ms–5 ms
Flash Delay	0 ms–6 ms
Strobe Duration	Records the duration of the strobe flash
Angle of LED Lens	30° × 10°

Function

Day/Night	Supports day/night switch. Sensitivity levels 1–6 can be set
Working Mode	Strobe, flashlight
Status Display	Supports remotely displaying the running or fault status of the illuminator on the the camera (Dahua traffic cameras only) web interface

Power Detection	Displays real-time power of the illuminator
Temperature Detection	Displays real-time temperature of the illuminator
Remote Fault Display	Supports current and voltage exception detection
Brightness Adjustment	Brightness levels 1–20 can be set
Capture and Flash Synchronization	Yes
Video and Flash Synchronization	Yes
False Trigger Shielding	Yes
Anti-interference	Yes

External Port

I/O	1
Flash	1
Strobe Input	1
RS-485	1

General

Power Supply	100–240 VAC
Power Consumption	≤ 60 W
Operating Temperature	–40°C to +70°C (–40°F to +158°F)
Operating Humidity	10%–90% (RH, non-condensing)
Protection Grade	IP66
Dimensions	258.0 mm × 250.9 mm × 127.0 mm (10.16" × 9.88" × 5.00") (L × W × H)
Net Weight	3.6 kg (7.94 lb)
Gross Weight	4.1 kg (9.04 lb)
Installation	Universal bracket mount

KX-F42FL

Warm Light LED All-in-one Illuminator

Dimensions (mm[inch])

