



DISTRIBUTOR SELECTION GUIDE

850nm IR LED Illuminators

Flexible beam angles · 10–180 m reference range
Indoor and outdoor CCTV support

EST. 2012

IR lighting manufacturing experience

OWN FACTORY

Production, QC and order coordination

2-YEAR WARRANTY

Unified warranty across this range



AOE-IR85-0101

4W · 10–40 m



AOE-IR85-0112

24W · 30–100 m



AOE-IR85-0115

40W · 50–180 m

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A practical four-step selection path

Use target distance first, then narrow the choice by beam angle, installation space and power supply.

01 Target distance

10–40 m compact monitoring
20–120 m general CCTV
30–180 m long-range scenes

02 Beam angle

15° for tighter long-range coverage
30°–60° for general projects
90° for wider nearby coverage

03 Housing format

Compact round or panel
Low-profile flat housing
Long-body directional housing

04 Electrical input

DC12V for most CCTV systems
AC220V options for selected
32W and 40W models

Portfolio map

Compact 4W

10–40 m

AOE-IR85-0101–0103

Panel 12–16W

15–120 m

AOE-IR85-0104–0105 / 0107–0108

Flat 16–18W

20–120 m

AOE-IR85-0109–0111

Long-body 12–24W

15–100 m

AOE-IR85-0106 / 0112

High-output 32–40W

30–180 m

AOE-IR85-0113–0115

Approved models and core specifications

All models include a built-in light sensor and 2-year warranty. Beam angle options are selected by project.



AOE-IR85-0101

4W Compact IR Illuminator · Standard lens

850nm · 4W · 4 LEDs
Beam: 30° / 45° / 60° / 90°
Range: 10–40 m · IP65
Input: DC12V · Size: Ø62×68 mm



AOE-IR85-0102

4W Compact IR Illuminator · Black lens

850nm · 4W · 4 LEDs
Beam: 30° / 45° / 60° / 90°
Range: 10–40 m · IP65
Input: DC12V · Size: Ø62×68 mm



AOE-IR85-0103

4W IR LED Array Illuminator · 48-LED array

850nm · 4W · 48 LEDs
Beam: 30° / 45° / 60° / 90°
Range: 10–20 m · IP65
Input: DC12V · Size: Ø62×68 mm



AOE-IR85-0104

12W Compact IR Illuminator · Standard range

850nm · 12W · 6 LEDs
Beam: 9° / 15° / 30° / 45° / 60° / 90°
Range: 15–80 m · IP65
Input: DC12V · Size: 115×85×90 mm



AOE-IR85-0105

12W Compact IR Illuminator · Extended range

850nm · 12W · 6 LEDs
Beam: 9° / 15° / 30° / 45° / 60° / 90°
Range: 30–120 m · IP65
Input: DC12V · Size: 115×85×90 mm



AOE-IR85-0106

12W Long-body IR Illuminator · 4-LED

850nm · 12W · 4 LEDs
Beam: 15° / 30° / 45° / 60° / 90°
Range: 15–70 m · IP66
Input: DC12V · Size: 65×85×120 mm



AOE-IR85-0107

16W Compact IR Illuminator · Standard range

850nm · 16W · 8 LEDs
Beam: 15° / 30° / 45° / 60° / 90°
Range: 20–80 m · IP66
Input: DC12V · Size: 115×85×90 mm



AOE-IR85-0108

16W Compact IR Illuminator · Extended range

850nm · 16W · 8 LEDs
Beam: 15° / 30° / 45° / 60° / 90°
Range: 35–100 m · IP66
Input: DC12V · Size: 115×85×90 mm

Approved models and core specifications

All models include a built-in light sensor and 2-year warranty. Beam angle options are selected by project.



AOE-IR85-0109

16W Flat IR Illuminator · Standard range

850nm · 16W · 8 LEDs
Beam: 9° / 15° / 30° / 45° / 60° / 90°
Range: 20–100 m · IP66
Input: DC12V · Size: 135×115×40 mm



AOE-IR85-0110

16W Flat IR Illuminator · Extended range

850nm · 16W · 8 LEDs
Beam: 9° / 15° / 30° / 45° / 60° / 90°
Range: 35–120 m · IP66
Input: DC12V · Size: 135×115×40 mm



AOE-IR85-0111

18W Flat IR Illuminator · 9-LED

850nm · 18W · 9 LEDs
Beam: 9° / 15° / 30° / 45° / 60° / 90°
Range: 20–100 m · IP66
Input: DC12V · Size: 135×115×40 mm



AOE-IR85-0112

24W Long-range IR Illuminator · 8-LED

850nm · 24W · 8 LEDs
Beam: 15° / 30° / 45° / 60° / 90°
Range: 30–100 m · IP66
Input: DC12V · Size: 80×85×130 mm



AOE-IR85-0113

32W IR Illuminator · DC12V

850nm · 32W · 16 LEDs
Beam: 15° / 30° / 45° / 60° / 90°
Range: 30–130 m · IP66
Input: DC12V · Size: 160×100×54 mm



AOE-IR85-0114

32W IR Illuminator · AC220V

850nm · 32W · 16 LEDs
Beam: 15° / 30° / 45° / 60° / 90°
Range: 30–130 m · IP66
Input: AC220V · Size: 160×100×54 mm



AOE-IR85-0115

40W High-output IR Illuminator · AC220V

850nm · 40W · 20 LEDs
Beam: 15° / 30° / 45° / 60° / 90°
Range: 50–180 m · IP66
Input: AC220V · Size: 160×100×54 mm

Need a model recommendation?

Send target distance, scene width, camera type and power supply to sales@accurates-led.com.