

DISTRIBUTOR SELECTION GUIDE

IR Laser VCSEL

Laser LED, VCSEL and hybrid options | 30-650 m reference range

EST. 2012

IR lighting manufacturing experience

OWN FACTORY

Production, QC and order coordination

2-YEAR WARRANTY

Unified warranty across this range



AOE-IRL-0301

6W | 30-150 m



AOE-IRL-0306

24W | 80-400 m



AOE-IRL-0310

36W | 150-650 m

A practical four-step selection path

Define the required range first, then select emitter technology, beam angle and input.

01 Target distance

30-200 m laser LED
70-400 m VCSEL
150-650 m long-range VCSEL

02 Technology

Laser LED for focused reach
VCSEL for long-range uniformity
Hybrid for balanced coverage

03 Beam angle

5° / 7° for long reach
10° / 15° for mid field
30°-90° for wider scenes

04 Electrical input

DC12V for most models
AC220V long-range option
Confirm camera and lens pairing

Portfolio map

6W to 18W

30-150 m / 40-200 m

AOE-IRL-0301
to AOE-IRL-0302

18W to 12W

70-220 m / 30-150 m

AOE-IRL-0303
to AOE-IRL-0304

12W to 24W

70-200 m / 80-400 m

AOE-IRL-0305
to AOE-IRL-0306

32W to 48W

40-150 m / 50-180 m

AOE-IRL-0307
to AOE-IRL-0308

48W to 36W

150-600 m / 150-650 m

AOE-IRL-0309
to AOE-IRL-0310

Approved models and core specifications

Two-year warranty. Final beam angle and project configuration are confirmed before order.



AOE-IRL-0301

6W IR Laser LED Illuminator | 6-emitter compact panel

850nm · 6W · 6 laser LEDs
Beam: 7° / 15° / 30° / 45°
Range: 30-150 m | IP65
Input: DC12V | Size: 115×85×90 mm



AOE-IRL-0302

18W IR Laser LED Illuminator | 6-emitter high-output panel

850nm · 18W · 6 laser LEDs
Beam: 7° / 15° / 30° / 45°
Range: 40-200 m | IP65
Input: DC12V | Size: 115×85×90 mm



AOE-IRL-0303

18W VCSEL IR Illuminator | Compact long-range housing

850nm · 18W · VCSEL
Beam: 5° / 7° / 10° / 15° / 30°
Range: 70-220 m | IP65
Input: DC12V | Size: 115×85×90 mm



AOE-IRL-0304

12W IR Laser LED Illuminator | 4-emitter long-body housing

850nm · 12W · 4 laser LEDs
Beam: 7° / 15° / 30° / 45°
Range: 30-150 m | IP66
Input: DC12V | Size: 65×85×120 mm



AOE-IRL-0305

12W VCSEL IR Illuminator | Long-body narrow-beam housing

850nm · 12W · VCSEL
Beam: 5° / 7° / 10° / 15° / 30°
Range: 70-200 m | IP66
Input: DC12V | Size: 65×85×120 mm

Approved models and core specifications

Two-year warranty. Final beam angle and project configuration are confirmed before order.



AOE-IRL-0306

24W VCSEL IR Illuminator | Long-body long-range housing

850nm · 24W · VCSEL
Beam: 5° / 7° / 10° / 15° / 30°
Range: 80-400 m | IP66
Input: DC12V | Size: 80×85×130 mm



AOE-IRL-0307

32W Hybrid IR Illuminator | IR LED + IR laser array

850nm · 32W · 16 mixed emitters
Beam: 15° / 30° / 45° / 60° / 90°
Range: 40-150 m | IP66
Input: DC12V | Size: 160×100×54 mm



AOE-IRL-0308

48W Hybrid IR Illuminator | IR LED + IR laser array

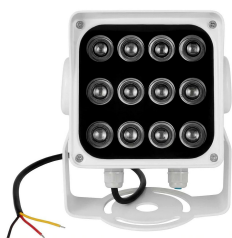
850nm · 48W · 16 mixed emitters
Beam: 15° / 30° / 45° / 60° / 90°
Range: 50-180 m | IP66
Input: DC12V | Size: 160×100×54 mm



AOE-IRL-0309

48W VCSEL IR Illuminator | High-output panel

850nm · 48W · VCSEL
Beam: 5° / 7° / 10° / 15° / 30°
Range: 150-600 m | IP66
Input: DC12V | Size: 160×100×54 mm



AOE-IRL-0310

36W VCSEL IR Illuminator | AC long-range panel

850nm · 36W · 12 VCSEL emitters
Beam: 5° / 7° / 10° / 15° / 30°
Range: 150-650 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.