

# iluminar

## Illumination Distance Chart

### Infra-Red Illuminators

#### Short Range

IR148 SERIES	Angle	Wavelength	Power	Feet	Meters
IR148-A10-24	10°	850nm	12-32VDC / 24VAC	148	45
IR148-A30-24	30°	850nm	12-32VDC / 24VAC	82	25
IR148-A60-24	60°	850nm	12-32VDC / 24VAC	62	19
IR148-A120-24	120°	850nm	12-32VDC / 24VAC	43	13
IR148-C10-24	10°	940nm	12-32VDC / 24VAC	69	21
IR148-C30-24	30°	940nm	12-32VDC / 24VAC	39	12
IR148-C60-24	60°	940nm	12-32VDC / 24VAC	30	9
IR148-C120-24	120°	940nm	12-32VDC / 24VAC	20	6

#### Medium Range

IR229 SERIES	Angle	Wavelength	Power	Feet	Meters
IR229-A10-24	10°	850nm	24VAC	229	70
IR229-A20-24	20°	850nm	24VAC	164	50
IR229-A30-24	30°	850nm	24VAC	131	40
IR229-C10-24	10°	940nm	24VAC	115	35
IR229-C20-24	20°	940nm	24VAC	82	25
IR229-C30-24	30°	940nm	24VAC	65	20

IR312 SERIES	Angle	Wavelength	Power	Feet	Meters
IR312-A10-24	10°	850nm	12-32VDC / 24VAC	312	95
IR312-A30-24	30°	850nm	12-32VDC / 24VAC	164	50
IR312-A60-24	60°	850nm	12-32VDC / 24VAC	115	35
IR312-A120-24	120°	850nm	12-32VDC / 24VAC	66	20
IR312-C10-24	10°	940nm	12-32VDC / 24VAC	148	45
IR312-C30-24	30°	940nm	12-32VDC / 24VAC	79	24
IR312-C60-24	60°	940nm	12-32VDC / 24VAC	56	17
IR312-C120-24	120°	940nm	12-32VDC / 24VAC	33	10

IR328 SERIES	Angle	Wavelength	Power	Feet	Meters
IR328-A30-24	30°	850nm	24VAC	328	100
IR328-A120-24	120°	850nm	24VAC	98	30

<b>IR330 SERIES</b>	<b>Angle</b>	<b>Wavelength</b>	<b>Power</b>	<b>Feet</b>	<b>Meters</b>
IR330-A30-24	30°	850nm	24VAC	<b>330</b>	<b>100</b>

### Long Range

<b>IR623 SERIES</b>	<b>Angle</b>	<b>Wavelength</b>	<b>Power</b>	<b>Feet</b>	<b>Meters</b>
IR623-A10-24	10°	850nm	12-32VDC / 24VAC	<b>623</b>	<b>190</b>
IR623-A30-24	30°	850nm	12-32VDC / 24VAC	<b>328</b>	<b>100</b>
IR623-A60-24	60°	850nm	12-32VDC / 24VAC	<b>246</b>	<b>75</b>
IR623-A120-24	120°	850nm	12-32VDC / 24VAC	<b>131</b>	<b>40</b>
IR623-C10-24	10°	940nm	12-32VDC / 24VAC	<b>295</b>	<b>90</b>
IR623-C30-24	30°	940nm	12-32VDC / 24VAC	<b>157</b>	<b>48</b>
IR623-C60-24	60°	940nm	12-32VDC / 24VAC	<b>118</b>	<b>36</b>
IR623-C120-24	120°	940nm	12-32VDC / 24VAC	<b>62</b>	<b>19</b>

<b>IR820 SERIES</b>	<b>Angle</b>	<b>Wavelength</b>	<b>Power</b>	<b>Feet</b>	<b>Meters</b>
IR820-A30-24	30°	850nm	24VAC	<b>820</b>	<b>250</b>
IR820-A120-24	120°	850nm	24VAC	<b>180</b>	<b>55</b>

### Super Long Range

<b>IR919 SERIES</b>	<b>Angle</b>	<b>Wavelength</b>	<b>Power</b>	<b>Feet</b>	<b>Meters</b>
IR919-A10-24	10°	850nm	12-32VDC / 24VAC	<b>919</b>	<b>280</b>
IR919-A30-24	30°	850nm	12-32VDC / 24VAC	<b>623</b>	<b>190</b>
IR919-A60-24	60°	850nm	12-32VDC / 24VAC	<b>410</b>	<b>125</b>
IR919-A120-24	120°	850nm	12-32VDC / 24VAC	<b>197</b>	<b>60</b>
IR919-C10-24	10°	940nm	12-32VDC / 24VAC	<b>443</b>	<b>135</b>
IR919-C30-24	30°	940nm	12-32VDC / 24VAC	<b>295</b>	<b>90</b>
IR919-C60-24	60°	940nm	12-32VDC / 24VAC	<b>197</b>	<b>60</b>
IR919-C120-24	120°	940nm	12-32VDC / 24VAC	<b>95</b>	<b>29</b>

<b>IR1150 SERIES</b>	<b>Angle</b>	<b>Wavelength</b>	<b>Power</b>	<b>Feet</b>	<b>Meters</b>
IR1150-A30-AI	30°	850nm	24VAC	<b>1150</b>	<b>350</b>
IR1150-A120-AI	120°	850nm	24VAC	<b>820</b>	<b>250</b>

Stated illumination distance determined using B&W or day/night video camera  
 These cameras have a 1/3" CCD sensor with 0.01lx sensitivity and F 1.4 objective lens



## Illumination Distance Chart

### White Light Illuminators

#### Short Range

WL100 SERIES	Angle	Wavelength	Power	Feet	Meters
WL100-10-24	10°	Visible	24VAC	100	30
WL100-25-24	25°	Visible	24VAC	80	25
WL100-30-24	30°	Visible	24VAC	65	20
WL100-45-24	45°	Visible	24VAC	30	9

WL105 SERIES	Angle	Wavelength	Power	Feet	Meters
WL105-10-24	10°	Visible	12-32VDC / 24VAC	105	32
WL105-30-24	30°	Visible	12-32VDC / 24VAC	59	18
WL105-60-24	60°	Visible	12-32VDC / 24VAC	43	13
WL105-120-24	120°	Visible	12-32VDC / 24VAC	30	9

#### Medium Range

WL197 SERIES	Angle	Wavelength	Power	Feet	Meters
WL197-30-24	30°	Visible	24VAC	197	60
WL197-120-24	120°	Visible	24VAC	60	18

WL220 SERIES	Angle	Wavelength	Power	Feet	Meters
WL220-10-24	10°	Visible	12-32VDC / 24VAC	220	67
WL220-30-24	30°	Visible	12-32VDC / 24VAC	115	35
WL220-60-24	60°	Visible	12-32VDC / 24VAC	82	25
WL220-120-24	120°	Visible	12-32VDC / 24VAC	46	14

## Long Range

WL436 SERIES	Angle	Wavelength	Power	Feet	Meters
WL436-10-24	10°	Visible	12-32VDC / 24VAC	436	133
WL436-30-24	30°	Visible	12-32VDC / 24VAC	230	70
WL436-60-24	60°	Visible	12-32VDC / 24VAC	174	53
WL436-120-24	120°	Visible	12-32VDC / 24VAC	92	28

WL525 SERIES	Angle	Wavelength	Power	Feet	Meters
WL525-30-24	30°	Visible	24VAC	525	160
WL525-120-24	120°	Visible	24VAC	115	35

## Super Long Range

WL643 SERIES	Angle	Wavelength	Power	Feet	Meters
WL643-10-24	10°	Visible	12-32VDC / 24VAC	643	196
WL643-30-24	30°	Visible	12-32VDC / 24VAC	436	133
WL643-60-24	60°	Visible	12-32VDC / 24VAC	289	88
WL643-120-24	120°	Visible	12-32VDC / 24VAC	138	42

WL690 SERIES	Angle	Wavelength	Power	Feet	Meters
WL690-30-AI	30°	Visible	24VAC	690	210
WL690-120-AI	120°	Visible	24VAC	490	150

Stated illumination distance determined using B&W or day/night video camera  
 These cameras have a 1/3" CCD sensor with 0.01lx sensitivity and F 1.4 objective lens