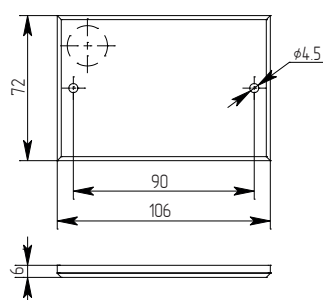


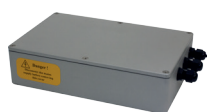
Set of supply

Standard: w/o built-in photocell, w/o mount bracket, color - black.

Dimensions



Accessories



PSU-2/4/6/8
power supply unit

Description

The IR-Plate illuminator is specially designed to provide spot light for the near field distances. There is possibility to place marks (apartment number for example) on the front plate and mount a tiny CCTV on the back. It makes the IR-Plate an ideal solution for intercom hidden illumination.

Specifications

IR-Plate-2-850

wavelength, nm	850
angle, °	120
IR illumination distance, m	7,5
horizontal spot size, m	20
power consumption, W	4,5 max
power requirement, V	12 DC
weight, kg	0,1
operation temperature, °C	-40...+50
enviromental ratings	IP65

IR-Plate-3-850

wavelength, nm	850
angle, °	150
IR illumination distance, m	9,0
horizontal spot size, m	30
power consumption, W	5,1 max
power requirement, V	12 DC
weight, kg	0,1
operation temperature, °C	-40...+50
enviromental ratings	IP65

IR-Plate-2-940

wavelength, nm	940
angle, °	120
IR illumination distance, m	3,5
horizontal spot size, m	14
power consumption, W	4,5 max
power requirement, V	12 DC
weight, kg	0,1
operation temperature, °C	-40...+50
enviromental ratings	IP65

IR-Plate-3-940

wavelength, nm	940
angle, °	150
IR illumination distance, m	4,5
horizontal spot size, m	20
power consumption, W	5,1 max
power requirement, V	12 DC
weight, kg	0,1
operation temperature, °C	-40...+50
enviromental ratings	IP65

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

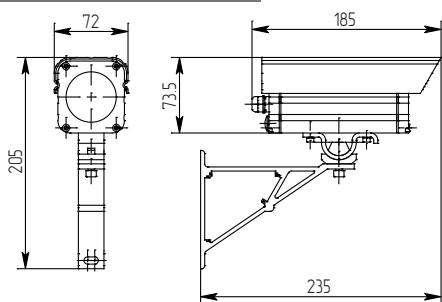


Set of supply

Standard: built-in photocell, mount bracket.
Color - black.

Optional: w/o mount bracket, w/o built-in photocell, PoE, AST-2 mount bracket, RAL color available.

Dimensions



Accessories



PSU-2/4/6/8
power supply

AST-2
mount bracket

Description

The IR-1 is infrared illuminator with adjusted illumination angle and wide-range input power specially designed for using with different variofocal cameras or when CCTV conditions are undetermined. 50x zoom of this model is unique for CCTV applications.

There is the adjusting screw on back cover to set illumination angle. Smooth rotating of the screw allows getting angle with high accuracy.

Specifications

wavelength, nm	850
angle, °	2...100
IR illumination distance, m	18...400
power consumption, W	4.0 max
power requirement, V	12...24 AC/DC
weight, kg	0.74
operation temperature, °C	-40...+50
enviromental ratings	IP66

number of rotation for adjusting screw	angle, °	IR illumination distance, m	horizontal spot size, m
0	2	400	12
2	2.5	300	12
4	3	250	12
5	3.5	200	11
6	4	150	9
8	5	120	9
10	6	100	9
11	9	80	11
19	13	60	12
23	17	50	13
31	25	40	16
44	40	30	20
50	50	25	20
57	65	22	35
67	90	20	35
70	100	18	40

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than 1.5×10^{-5} W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

Description

The IR-1 FHD model is next generation of ZOOM illuminators family. It got all the advantages of IR-1 plus increased optical power that allows to use it together with many different high resolution CCTV cameras.

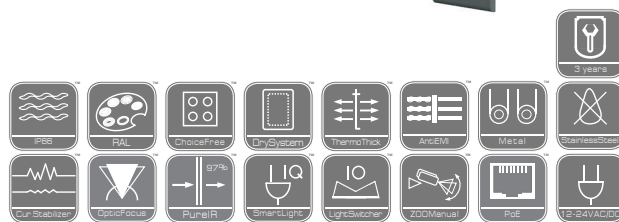
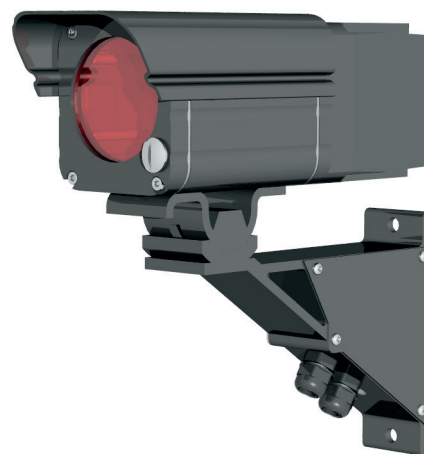
There is the adjusting screw on front cover to set illumination angle. Smooth rotating of the screw allows getting angle with high accuracy.

Specifications

wavelength, nm	850
angle, °	2..60
IR illumination distance, m	85..470
power consumption, W	16.0 max
power requirement, V	12...24 AC/DC
weight, kg	0.54
operation temperature, °C	-40...+50
environmental ratings	IP66

number of rotation for adjusting screw	angle, °	IR illumination distance, m	horizontal spot size, m
0	2	470	16
2	3.5	355	21
4	4.5	315	24
5	5.5	285	26
6	6	270	28
8	7.5	244	31
10	8.5	230	35
14	11	200	39
18	12	190	40
22	16.5	165	48
34	22.5	140	52
44	31	120	71
50	35	110	70
55	37	105	70
65	43	100	80
85	60	85	100

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than 1.5×10^{-5} W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

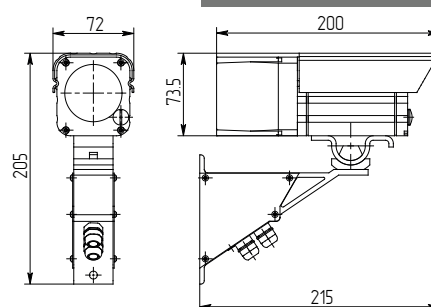


Set of supply

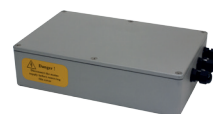
Standard: built-in photocell, mount bracket. Color - black.

Optional: w/o mount bracket, w/o built-in photocell, PoE+, AST-2 mount bracket, RAL color available.

Dimensions



Accessories



PSU-2/4/6/8
power supply unit

Description

Range of applications for ceiling mounted IR-28 SPH is office and warehouse. This illuminator provides uniform spot illumination that is ideal for panoramic video cameras, such as Mobotix Q24. The illuminator has the built-in photocell with switching off delay. Versions are possible with 850 and 940 nm wavelength and also with an PoE option.

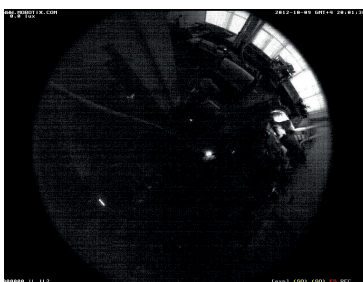
Specifications

IR-28 SPH 850

wavelength, nm	850
angle, °	360
square of illumination, m ²	75*
power consumption, W	12,0 max
power requirement, V	12...24 AC/DC
weight, kg	0.75
operation temperature, °C	-40...+50
environmental ratings	IP55

IR-28 SPH 940

wavelength, nm	940
angle, °	360
square of illumination, m ²	40*
power consumption, W	12,0 max
power requirement, V	12...24 AC/DC
weight, kg	0.75
operation temperature, °C	-40...+50
environmental ratings	IP55



IR-28 SPH is off



IR-28 SPH is on

*IR-28 SPH 850 and IR-28 SPH 940 square of illumination is guaranteed by tests with Mobotix Q24 camera on 4 meters height installation.

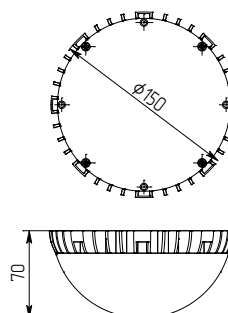


Set of supply

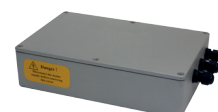
Standard: 12...24 V AC/DC, built-in photocell, color - white.

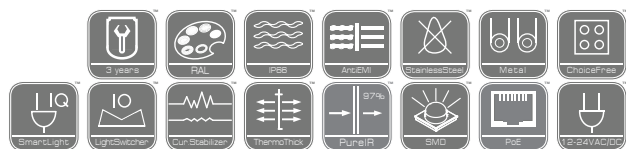
Optional: w/o built-in photocell, PoE, RAL color available.

Dimensions



Accessories

PSU-2
power supply unit

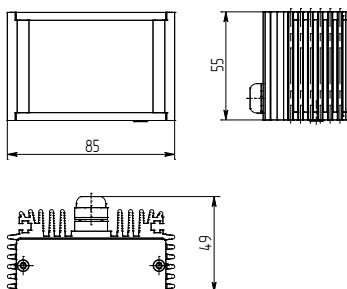


Set of supply

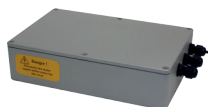
Standard: built-in photocell, mount bracket, color - black.

Optional: PoE, w/o built-in photocell, w/o mount bracket, Mobotix M12, M15, M24 mount bracket, RAL color available.

Dimensions



Accessories



PSU-2/4/6/8
power supply unit



Mobotix
M12, M15, M24
mount bracket

Description

Junior model of IR-30 series. Enclosure made of extruded aluminum profile that is designed to maximize efficient heat dissipation from the LED emitters. Two input power options are available - with extended input range 12 ... 24 V AC/DC and Power over Ethernet (PoE) technology. Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	40	25	20	10
horizontal spot size, m	20	18	20	18
power consumption, W	3,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0.35			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	35	23	17	12
horizontal spot size, m	19	19	20	25
power consumption, W	3,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0.35			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5} \text{ W/m}^2$ for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

Description

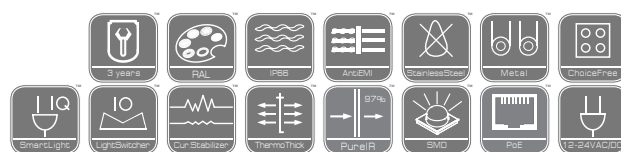
Middle model of IR-30 series. Enclosure made of extruded aluminum profile that is designed to maximize efficient heat dissipation from the LED emitters. Two input power options are available - with extended input range 12 ... 24 V AC/DC and Power over Ethernet (PoE) technology. Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	60	35	25	15
horizontal spot size, m	30	26	25	26
power consumption, W	6,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0.45			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	42	28	20	14
horizontal spot size, m	22	23	23	27
power consumption, W	6,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0.45			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

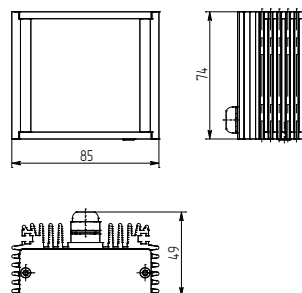


Set of supply

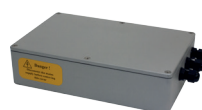
Standard: built-in photocell, mount bracket, color - black.

Optional: PoE, w/o built-in photocell, w/o mount bracket, Mobotix M12, M15, M24 mount bracket, RAL color available.

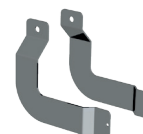
Dimensions



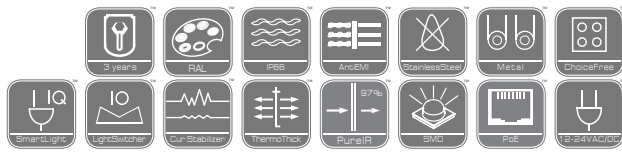
Accessories



PSU-2/4/6/8
power supply unit



Mobotix
M12, M15, M24
mount bracket

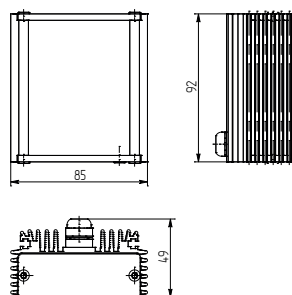


Set of supply

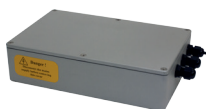
Standard: built-in photocell, mount bracket, color - black.

Optional: PoE, w/o built-in photocell, w/o mount bracket, Mobotix M12, M15, M24 mount bracket, RAL color available.

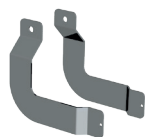
Dimensions



Accessories



PSU-2/4/6/8
power supply unit



Mobotix
M12, M15, M24
mount bracket

Description

Top model of IR-30 series. Enclosure made of extruded aluminum profile that is designed to maximize efficient heat dissipation from the LED emitters. Two input power options are available - with extended input range 12 ... 24 V AC/DC and Power over Ethernet (PoE) technology. Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	70	40	30	20
horizontal spot size, m	34	30	30	35
power consumption, W	9,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0,6			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	50	33	25	16
horizontal spot size, m	27	27	29	34
power consumption, W	9,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0,6			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

Description

IR illuminators HELIOS IR-294 series are built on SMD LEDs with external optical former. Built-in current stabilizer with a wide range of input voltage minimizes degradation and extends the operational life time of the LEDs. Built-in photocell has internal protection from accidental switching that provides automatic on / off in accordance with external illumination changing. Also available with Power over Ethernet (PoE) technology.

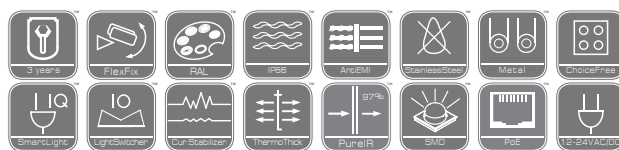
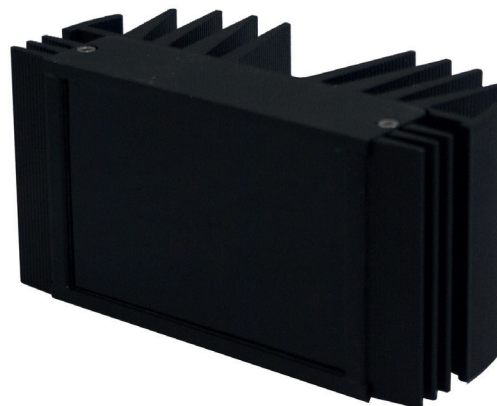
Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	120	75	55	35
horizontal spot size, m	60	55	55	65
power consumption, W	12,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0.65			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	55	35	25	16
horizontal spot size, m	26	25	25	28
power consumption, W	12,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	0.65			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

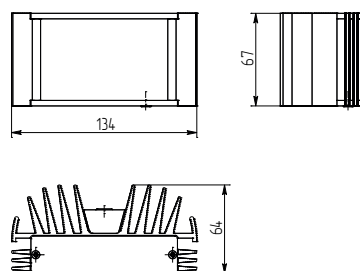


Set of supply

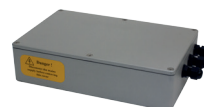
Standard: 12...24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.

Optional: PoE, w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



PSU-2/4/6/8
power supply unit



AST-3
mount bracket

Description

The IR-294 HC series illuminators using solid narrow light beam that's created by special optical former. It allows to carry out all the power of light to the illuminated object. These illuminators got all the features of the classical IR-294 series and are an ideal solution to illuminate objects on the far distances.

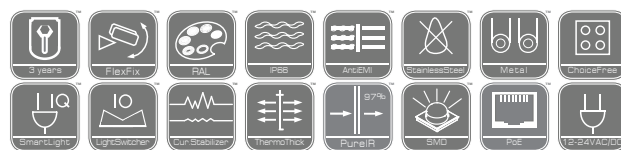
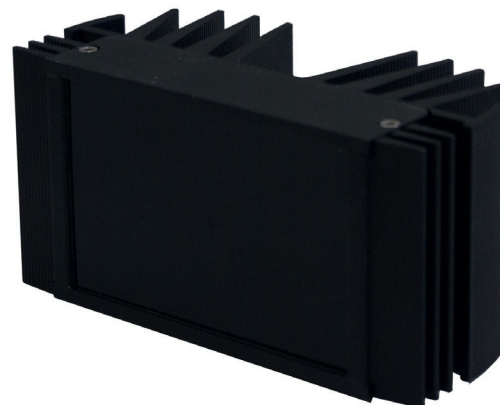
Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	340	250	200
horizontal spot size, m	30	42	50
power consumption, W	12,0 max		
power requirement, V	12...24 AC/DC		
weight, kg	0.65		
operation temperature, °C	-40...+50		
environmental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	155	110	90
horizontal spot size, m	14	19	22
power consumption, W	12,0 max		
power requirement, V	12...24 AC/DC		
weight, kg	0.65		
operation temperature, °C	-40...+50		
environmental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

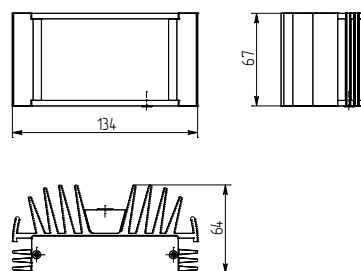


Set of supply

Standard: 12...24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.

Optional: PoE, w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



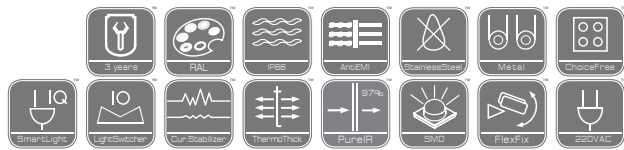
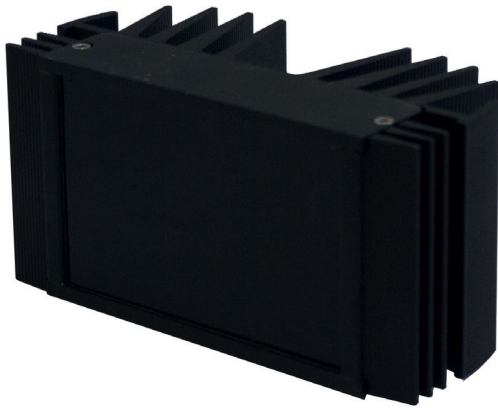
Accessories



PSU-2/4/6/8
power supply unit



AST-3
mount bracket

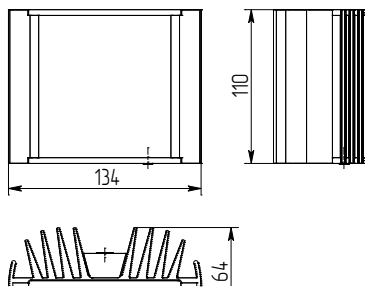


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



AST-3
mount bracket

Description

The IR-294 220 Series illuminators are capable to work with industrial range input power - 85...265 V AC and have an increased optical power compared to classic 294 Series.

Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	135	85	63	40
horizontal spot size, m	60	69	71	80
power consumption, W	14,0 max			
power requirement, V	85...265 AC			
weight, kg	0.95			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	63	40	29	18
horizontal spot size, m	33	34	35	36
power consumption, W	14,0 max			
power requirement, V	85...265 AC			
weight, kg	0.95			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1 000 nm (equivalent for 0,01 lx), objective F1.4

Description

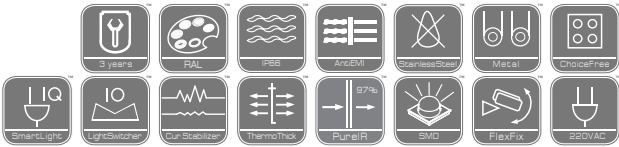
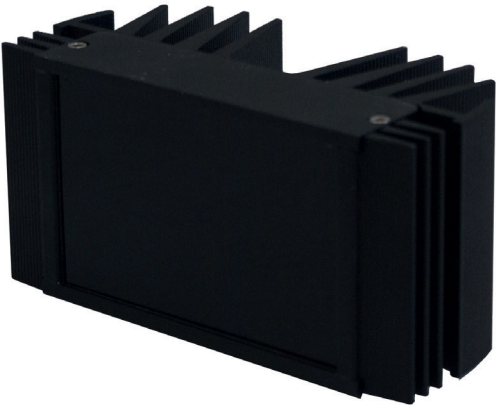
The IR-294 220 HC Series illuminators combine advantages of an increased optical power and solid narrow light beam that's created to carry out all the luminous flux energy to the illuminated object.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	390	285	230
horizontal spot size, m	33	47	60
power consumption, W	14,0 max		
power requirement, V	85...165 AC		
weight, kg	0.95		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	175	125	100
horizontal spot size, m	15	22	27
power consumption, W	14,0 max		
power requirement, V	85...165 AC		
weight, kg	0.95		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

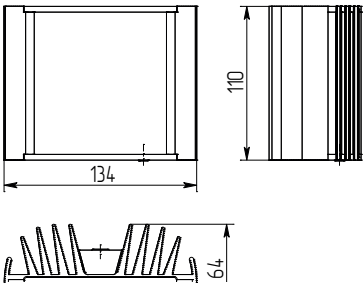


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

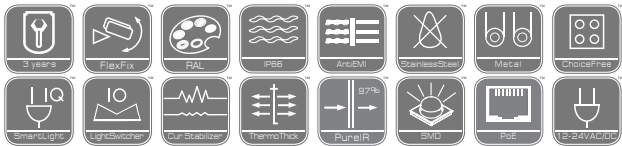
Dimensions



Accessories



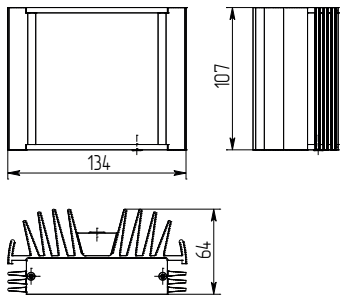
AST-3
mount bracket



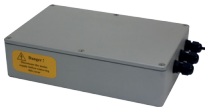
Set of supply

Standard: 12..24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.
Optional: PoE, w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



PSU-4/6/8
power supply unit



AST-3
mount bracket

Description

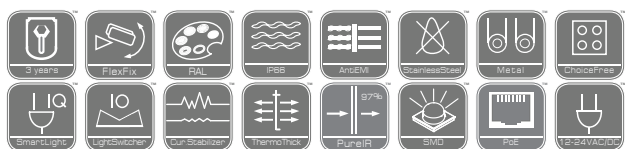
The HELIOS IR-294 Series illuminators are built on SMD LEDs with external optical former. Built-in current stabilizer with a wide range of input voltage minimizes degradation and extends the operational life time of the LEDs. Built-in photocell has internal protection from accidental switching that provides automatic on / off in accordance with external illumination changing. Also available with Power over Ethernet (PoE+) technology.
Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	170	105	75	50
horizontal spot size, m	80	70	75	90
power consumption, W	24,5 max			
power requirement, V	12..24 AC/DC			
weight, kg	1.0			
operation temperature, °C	-40..+50			
enviromental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	80	50	35	23
horizontal spot size, m	40	38	35	40
power consumption, W	24,5 max			
power requirement, V	12..24 AC/DC			
weight, kg	1.0			
operation temperature, °C	-40..+50			
enviromental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than 1,5x10⁻⁵ W/m² for 800..1 000 nm (equivalent for 0,01 lx), objective F1.4

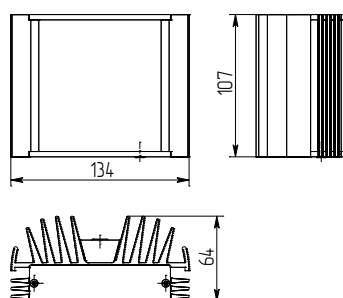


Set of supply

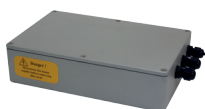
Standard: 12..24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.

Optional: PoE+, w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



PSU-4/6/8
power supply unit



AST-3
mount bracket

Description

The IR-294 HC series illuminators using solid narrow light beam that's created by special optical former. It allows to carry out all the power of light to the illuminated object. These illuminators got all the features of the classical IR-294 series and are an ideal solution to illuminate objects on the far distances.

Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	490	350	285
horizontal spot size, m	42	60	65
power consumption, W	24,5 max		
power requirement, V	12..24 AC/DC		
weight, kg	1.0		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	225	160	130
horizontal spot size, m	19	27	32
power consumption, W	24,5 max		
power requirement, V	12..24 AC/DC		
weight, kg	1.0		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800..1 000 nm (equivalent for 0,01 lx), objective F1.4

Description

The IR-294 220 Series illuminators are capable to work with industrial range input power – 85..265 V AC and have an increased optical power compared to classic 294 Series.

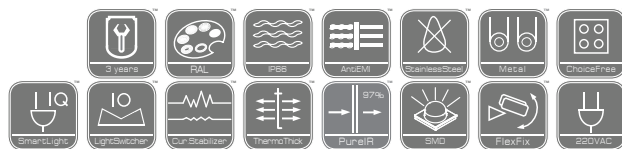
Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	190	120	90	55
horizontal spot size, m	100	100	105	110
power consumption, W	28,0 max			
power requirement, V	85...265 AC			
weight, kg	1.25			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	90	55	40	25
horizontal spot size, m	48	48	47	50
power consumption, W	28,0 max			
power requirement, V	85...265 AC			
weight, kg	1.25			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

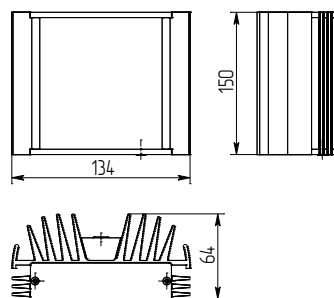


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color – black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

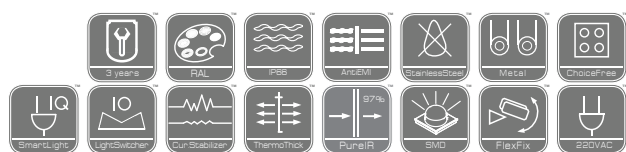
Dimensions



Accessories



AST-3
mount bracket

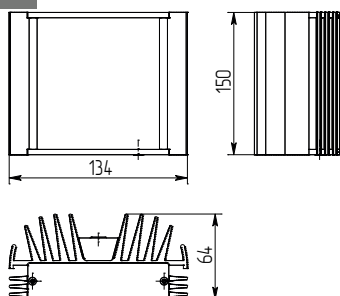


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



AST-3
mount bracket

Description

The IR-294 220 HC Series illuminators combine advantages of an increased optical power and solid narrow light beam that's created to carry out all the luminous flux energy to the illuminated object.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	560	400	325
horizontal spot size, m	48	68	85
power consumption, W	28,0 max		
power requirement, V	85...265 AC		
weight, kg	1.25		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	260	180	150
horizontal spot size, m	22	31	40
power consumption, W	28,0 max		
power requirement, V	85...265 AC		
weight, kg	1.25		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

Description

The HELIOS IR-294 Series illuminators are built on SMD LEDs with external optical former. Built-in current stabilizer with a wide range of input voltage minimizes degradation and extends the operational life time of the LEDs. Built-in photocell has internal protection from accidental switching that provides automatic on / off in accordance with external illumination changing.

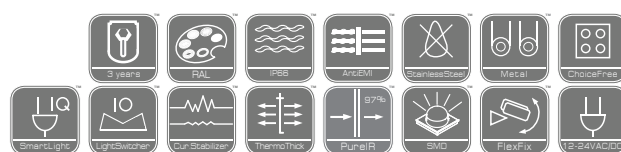
Each illuminator is completed with mount bracket

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	205	130	95	60
horizontal spot size, m	100	95	95	110
power consumption, W	35,0 max			
power requirement, V	12...24 AC/DC			
weight, kg	1.3			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	95	60	45	28
horizontal spot size, m	45	45	45	50
power consumption, W	35,0 max			
power requirement, V	12...24			
weight, kg	1.3			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

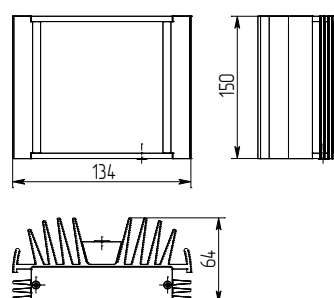


Set of supply

Standard: 12...24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



PSU-4/6/8
power supply unit



AST-3
mount bracket

Description

The IR-294 HC series illuminators using solid narrow light beam that's created by special optical former. It allows to carry out all the luminous flux energy to the illuminated object. These illuminators got all the features of the classical IR-294 series and are an ideal solution to illuminate objects on the far distances.

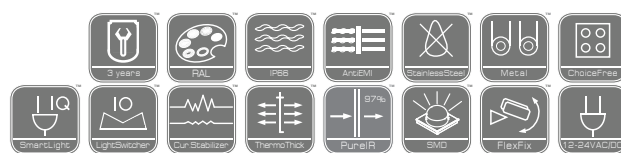
Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	590	415	340
horizontal spot size, m	50	70	85
power consumption, W	35,0 max		
power requirement, V	12..24 AC/DC		
weight, kg	1.3		
operation temperature, °C	-40...+50		
environmental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	275	195	160
horizontal spot size, m	23	35	40
power consumption, W	35,0 max		
power requirement, V	12..24		
weight, kg	1.3		
operation temperature, °C	-40...+50		
environmental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

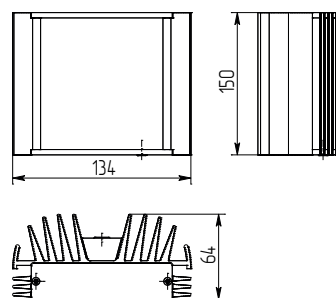


Set of supply

Standard: 12..24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



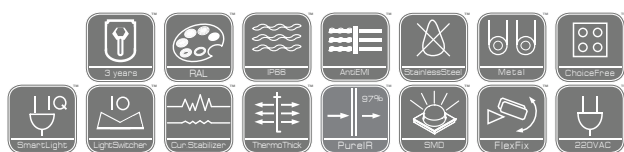
Accessories



PSU-4/6/8
power supply unit



AST-3
mount bracket

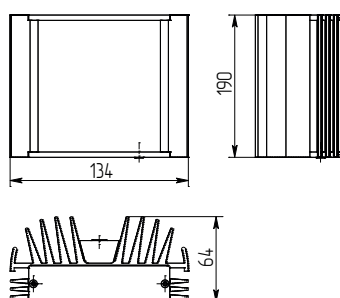


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



AST-3
mount bracket

Description

The IR-294 220 Series illuminators are capable to work with industrial range input power - 85...265 V AC and have an increased optical power compared to classic 294 Series.

Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	230	145	110	65
horizontal spot size, m	120	110	125	130
power consumption, W	42,0 max			
power requirement, V	85...265 AC			
weight, kg	1.6			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	110	65	50	30
horizontal spot size, m	59	51	58	60
power consumption, W	42,0 max			
power requirement, V	85...265 AC			
weight, kg	1.6			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5} \text{ W/m}^2$ for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

Description

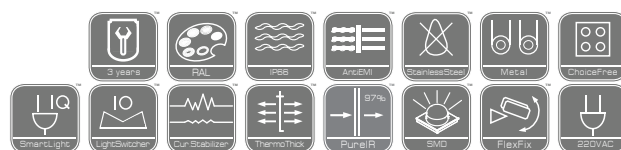
The IR-294 220 HC Series illuminators combine advantages of an increased optical power and solid narrow light beam that's created to carry out all the luminous flux energy to the illuminated object.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	680	480	390
horizontal spot size, m	60	80	100
power consumption, W	42,0 max		
power requirement, V	85...265 AC		
weight, kg	1.6		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	310	225	185
horizontal spot size, m	27	38	50
power consumption, W	42,0 max		
power requirement, V	85...265 AC		
weight, kg	1.6		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

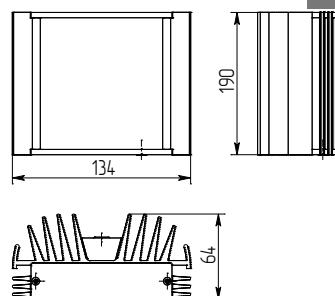


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

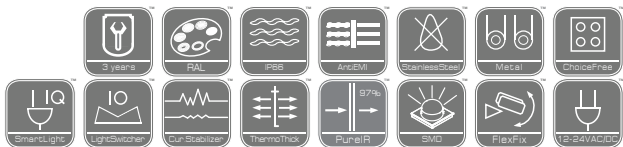
Dimensions



Accessories



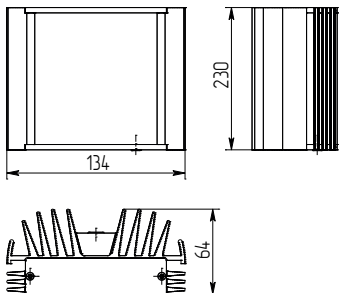
AST-3
mount bracket



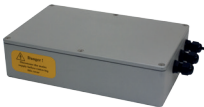
Set of supply

Standard: 12..24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.
Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



PSU-6/8
power supply unit



AST-3
mount bracket

Description

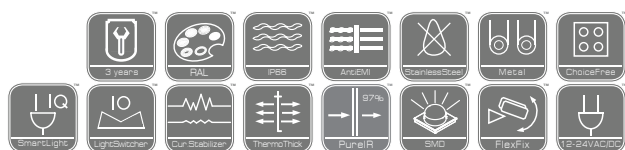
The HELIOS IR-294 Series illuminators are built on SMD LEDs with external optical former. Built-in current stabilizer with a wide range of input voltage minimizes degradation and extends the operational life time of the LEDs. Built-in photocell has internal protection from accidental switching that provides automatic on / off in accordance with external illumination changing.
Each illuminator is completed with mount bracket

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	290	180	165	85
horizontal spot size, m	130	130	165	150
power consumption, W	60,0 max			
power requirement, V	12..24 AC/DC			
weight, kg	1.9			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	135	85	75	40
horizontal spot size, m	60	85	75	70
power consumption, W	60,0 max			
power requirement, V	12..24 AC/DC			
weight, kg	1.9			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5} \text{ W/m}^2$ for 800..1000 nm (equivalent for 0,01 lx), objective F1.4

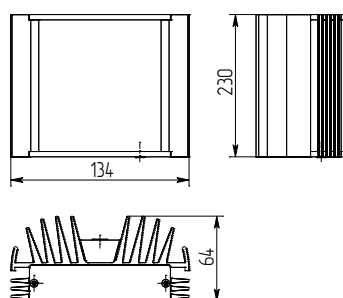


Set of supply

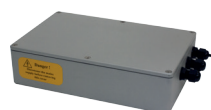
Standard: 12..24 V AC/DC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



PSU-16/8
power supply unit



AST-3
mount bracket

Description

The IR-294 HC series illuminators using solid narrow light beam that's created by special optical former. It allows to carry out all the power of light to the illuminated object. These illuminators got all the features of the classical IR-294 series and are an ideal solution to illuminate objects on the far distances.

Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	830	585	480
horizontal spot size, m	72	100	110
power consumption, W	60,0 max		
power requirement, V	12..24 AC/DC		
weight, kg	1.9		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	380	270	220
horizontal spot size, m	32	45	55
power consumption, W	60,0 max		
power requirement, V	12..24 AC/DC		
weight, kg	1.9		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800..1 000 nm (equivalent for 0,01 lx), objective F1.4

Description

The IR-294 220 Series illuminators are capable to work with industrial range input power - 85...265 V AC and have an increased optical power compared to classic 294 Series.

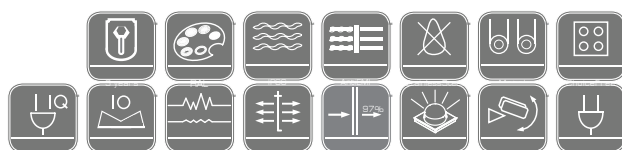
Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	290	180	165	85
horizontal spot size, m	130	130	165	150
power consumption, W	56.0 max			
power requirement, V	85...265 AC			
weight, kg	1.9			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	135	85	75	40
horizontal spot size, m	60	85	75	70
power consumption, W	56.0 max			
power requirement, V	85...265 AC			
weight, kg	1.9			
operation temperature, °C	-40...+50			
environmental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than 1.5×10^{-5} W/m² for 800...1000 nm (equivalent for 0.01 lx), objective F1.4

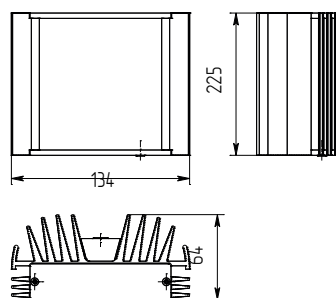


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



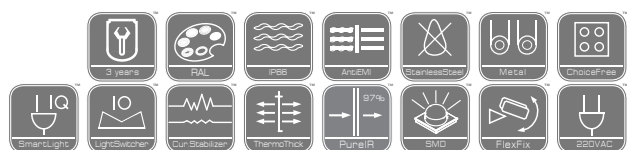
Accessories



AST-3
mount bracket

infraBeam IR-294-XL 220 HC

IR illuminator with 220 Volt AC Operation and an increased optical power

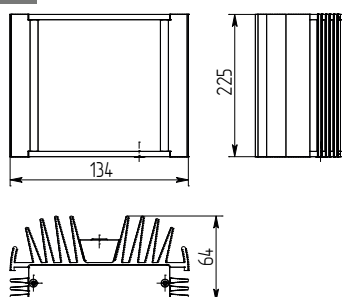


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



AST-3
mount bracket

Description

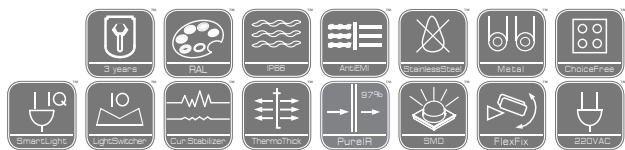
The IR-294 220 HC Series illuminators combine advantages of an increased optical power and solid narrow light beam that's created to carry out all the luminous flux energy to the illuminated object.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	780	550	450
horizontal spot size, m	68	96	115
power consumption, W	56,0 max		
power requirement, V	85...265 AC		
weight, kg	1.9		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	355	260	210
horizontal spot size, m	30	45	54
power consumption, W	56,0 max		
power requirement, V	85...265 AC		
weight, kg	1.9		
operation temperature, °C	-40...+50		
enviromental ratings	IP66		

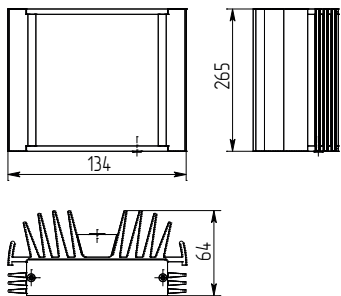
Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1 000 nm (equivalent for 0,01 lx), objective F1.4



Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.
Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



AST-3
mount bracket

Description

The IR-294 220 Series illuminators are capable to work with industrial range input power - 85...265 V AC and have an increased optical power compared to classic 294 Series.
Each illuminator is completed with mount bracket.

Specifications

wavelength, nm	850			
angle, °	30	45	60	90
IR illumination distance, m	330	207	190	98
horizontal spot size, m	160	160	200	200
power consumption, W	70,0 max			
power requirement, V	85...265 AC			
weight, kg	2,2			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

wavelength, nm	940			
angle, °	30	45	60	90
IR illumination distance, m	155	98	85	46
horizontal spot size, m	80	85	95	95
power consumption, W	70,0 max			
power requirement, V	85...265 AC			
weight, kg	2,2			
operation temperature, °C	-40...+50			
enviromental ratings	IP66			

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensivity not less than 1,5x10⁻⁵ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

Description

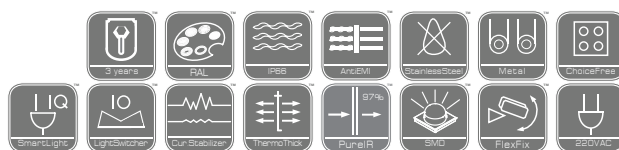
The IR-294 220 HC Series illuminators combine advantages of an increased optical power and solid narrow light beam that's created to carry out all the luminous flux energy to the illuminated object.

Specifications

wavelength, nm	850		
angle, °	5	10	15
IR illumination distance, m	870	610	500
horizontal spot size, m	75	105	130
power consumption, W	70,0 max		
power requirement, V	85...265 AC		
weight, kg	2,2		
operation temperature, °C	-40...+50		
environmental ratings	IP66		

wavelength, nm	940		
angle, °	5	10	15
IR illumination distance, m	395	290	235
horizontal spot size, m	33	50	60
power consumption, W	70,0 max		
power requirement, V	85...265 AC		
weight, kg	2,2		
operation temperature, °C	-40...+50		
environmental ratings	IP66		

Illumination distance is shown for B/W camera without IR correction, 1/3" CCD, sensitivity not less than $1,5 \times 10^{-5}$ W/m² for 800...1000 nm (equivalent for 0,01 lx), objective F1.4

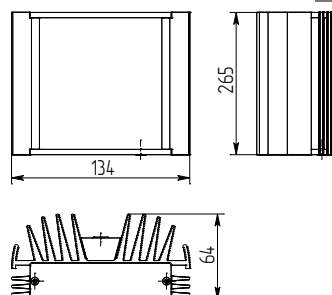


Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions



Accessories



AST-3
mount bracket

Description

In the IR-294 FHD Series illuminators light stream is focused by special optical former to get 16:9 spot size ratio on the illuminated object. It is the same ratio as in Full HD wide format cameras.

Each illuminator is completed with mount bracket.

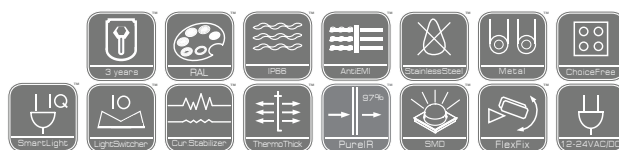
Specifications

	IR-294-S FHD	IR-294-M FHD	IR-294-L FHD	IR-294-XL FHD
wavelength, nm	850			
IR illumination distance, m	30	42	52	67
horizontal spot size, m	16x9	22x12	27x15	35x17
power consumption, W	12,0 max	24,5 max	35,0 max	60,0 max
power requirement, V	12...24 AC/DC			
weight, kg	0.65	1.0	1.3	1.9
operation temperature, °C	-40...+50			
environmental ratings	IP66			

	IR-294-S FHD	IR-294-M FHD	IR-294-L FHD	IR-294-XL FHD
wavelength, nm	940			
IR illumination distance, m	13.5	19	23	30
horizontal spot size, m	7x4	10x5.1	12x6.2	16x8.5
power consumption, W	12,0 max	24,5 max	35,0 max	60,0 max
power requirement, V	12...24 AC/DC			
weight, kg	0.65	1.0	1.3	1.9
operation temperature, °C	-40...+50			
environmental ratings	IP66			

Illumination distance is shown for camera with 1/3-inch CMOS, 2 Mpix, settings are as follows:

AGC gain level - LOW
SENS UP mode - OFF



Set of supply

Standard: 12...24 AC/DC, built-in photocell, ST-3M mount bracket, color - black.

Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions

	W	H	D
IR-294-S FHD	134	67	64
IR-294-M FHD	134	107	64
IR-294-L FHD	134	150	64
IR-294-XL FHD	134	230	64

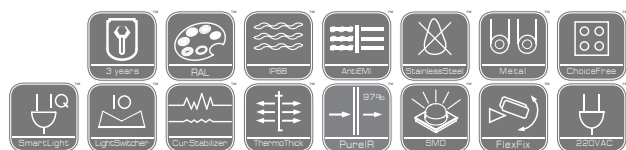
Accessories



PSU-2/4/6/8
power supply unit



AST-3
mount bracket



Set of supply

Standard: 85...265 V AC, built-in photocell, ST-3M mount bracket, color - black.
Optional: w/o built-in photocell, w/o mount bracket, AST-3 mount bracket, RAL color available.

Dimensions

	W	H	D
IR-294-S FHD	134	67	64
IR-294-M FHD	134	107	64
IR-294-L FHD	134	150	64
IR-294-XL FHD	134	230	64

Accessories



AST-3
mount bracket

Description

In the IR-294 220 FHD Series illuminators light stream is focused by special optical former to get 16:9 spot size ratio on the illuminated object. It is the same ratio as in Full HD wide format cameras.
Each illuminator is completed with mount bracket.

Specifications

	IR-294-S FHD	IR-294-M FHD	IR-294-L FHD	IR-294-XL FHD	IR-294-XXL FHD
wavelength, nm	850				
IR illumination distance, m	35	50	60	70	78
horizontal spot size, m	19x10	26x14	33x17	38x20	43x22
power consumption, W	14,0 max	28,0 max	42,0 max	56,0 max	70,0 max
power requirement, V	85...265 AC				
weight, kg	0.95	1.3	1.6	1.9	2.2
operation temperature, °C	-40...+50				
enviromental ratings	IP66				

	IR-294-S FHD	IR-294-M FHD	IR-294-L FHD	IR-294-XL FHD	IR-294-XXL FHD
wavelength, nm	940				
IR illumination distance, m	23	34	40	47	52
horizontal spot size, m	12x6	19x10	21x11	25x13	27x15
power consumption, W	14,0 max	28,0 max	42,0 max	56,0 max	70,0 max
power requirement, V	85...265 AC				
weight, kg	0.95	1.3	1.6	1.9	2.2
operation temperature, °C	-40...+50				
enviromental ratings	IP66				

Illumination distance is shown for camera with 1/3-inch CMOS, 2 Mpix, settings are as follows:
AGC gain level - LOW
SENS UP mode - OFF