ALD21.01

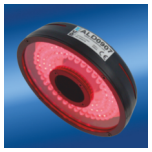
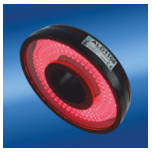
ALD SERIES

Direct ringlights

Lighting systems to light from camera axis. They provide a huge quantity of light from a distant point so can be used to light objects from a further distance that those of use diffuse light.

Designed to stand out shadows, textures and edges.

Technical specifications[1]

Lighting model	ALD0303A	ALD0606A	ALD0707A	ALD0907A	ALD1108A
					
Dimensions	48x48x27	Ø73x21	Ø90x21	Ø126x41	Ø145x41
Inner Ø	21	40	60	34	49
RWD (mm)	>40	>100	>120	>120	>160
Weight	75g	145g	175g	410g	525g
IP rating	IP40[2]	IP40	IP40	IP30	IP30
Mounting holes	(x2)M4⌶6 (x3)DIN913 M5@120°	(x2)M4⌶6 (x3)DIN913 M5@120°	(x2)M4⌶6 (x3)DIN913 M5@120°	(x2)M4⌶6 (x3)DIN913 M5@120°	(x2)M4⌶6 (x3)DIN913 M5@120°
Connection *(Type C/P/S)*	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V	2P male chassis connector PIN 1 = +24V ±3% PIN 2 = 0V
Power cable *(Not-included)*	VCB Series	VCB Series	VCB Series	VCB Series	VCB Series
Modifiers[3]	4S	N/A	N/A	4S	4S
Accessories[4]					
iBlueDrive tech.	**inline**	**inline**	**inline**	**Built-in**	**Built-in**
iBlueDrive connection	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]	3P aerial male inline connector. L= 715mm. PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]	3P male chassis connector PIN 1 = +24V ±8% PIN 2 = 0V PIN 3 = Control[5]
iBlueDrive power cable *(Not-included)*	VCC Series	VCC Series	VCC Series	VCC Series	VCC Series
iBlueDrive accessories[4]					

Instantaneous consumption[6] (max.)

*WT

Lighting model		ALD0303A	ALD0606A	ALD0707A	ALD0907A	ALD1108A	*WT
TYPE C 24VDC	B	0.8W	2.5W	2.5W	7.6W	10W	-470C
	G	0.8W	2.5W	2.5W	7.6W	10W	-525C
	R	1.3W	3.5W	3.5W	7.6W	9.5W	-630C
	i	1.3W	2W	2W	6.4W	8.2W	-850C
TYPE P Dmax= ½ Ton max= 60s	-u	1.1W	2.6W	2.6W	9.5W	13W	-365P
	u	1.1W	3.1W	3.1W	9.5W	13W	-400P
	W	1.1W	3.1W	3.1W	8W	11W	-W00P
TYPE S Dmax= 1/20 Ton max= 2ms	-u	175mA/4.2W	530mA/13W	530mA/13W	1585mA/38W	2110mA/51W	-365S
	u	175mA/4.2W	530mA/13W	530mA/13W	1585mA/38W	2110mA/51W	-400S
	B	175mA/4.2W	530mA/13W	530mA/13W	1585mA/38W	2110mA/51W	-470S
	G	110mA/2.6W	330mA/7.9W	330mA/7.9W	990mA/24W	1320mA/32W	-525S
	R	175mA/4.2W	530mA/13W	530mA/13W	1585mA/38W	2110mA/51W	-630S
	i	420mA/10W	625mA/16W	625mA/16W	2300mA/55W	2925mA/70W	-850S
	W	175mA/4.2W	530mA/15W	530mA/13W	1585mA/38W	2110mA/51W	-W00S
	RGB	N/A	200mA/4.8W channel	200mA/4.8W channel	1200mA/29W channel	1500mA/36W channel	-RGBS
TYPE i[7] iBlue Drive	-u	1.1W[5.3W/0.9W]	2.2W[15W/1.6W]	2.2W[15W/1.6W]	5.7W[44W/3.9W]	7.2W[48W/5.2W]	-365i
	u	1.4W[5.3W/1W]	3.4W[15W/1.9W]	3.4W[15W/1.9W]	9.1W[44W/4.8W]	12W[48W/6.2W]	-400i
	B	1.3W[5.3W/1.1W]	3.1W[15W/2.2W]	3.1W[15W/2.2W]	8.3W[44W/5.7W]	11W[48W/7.4W]	-470i
	G	1.2W[2.9W/0.9W]	2.6W[7.7W/1.6W]	2.6W[7.7W/1.6W]	7W[22W/3.9W]	9.1W[29W/5.1W]	-525i
	R	1.9W[5.3W/1.4W]	4.8W[15W/3.4W]	4.8W[15W/3.4W]	13W[44W/7.4W]	18W[48W/9.7W]	-630i
	i	3.1W[10W/1.9W]	4.4W[15W/2.6W]	4.4W[15W/2.6W]	14W[48W/7.1W]	17W[48W/8.9W]	-850i
	W	1.4W[5.3W/1W]	3.4W[15W/1.9W]	3.4W[15W/1.9W]	9.1W[44W/4.8W]	12W[48W/6.2W]	-W00i

N/A= Not available

(1) Environmental specifications and iconography legend in additional annex Z1.4 and Z2 respectively.

(2) IP43 if the system is positioned so that the light falls vertically.

(3) Prior to manufacturing optional modifications in standard lighting systems. Please, consult the code before ordering (additional annex Z2.1).

(4) Accessories are not-included. More information in accessories section.

(5) iBlueDrive control input wiring specifications in additional annex Z1.2.

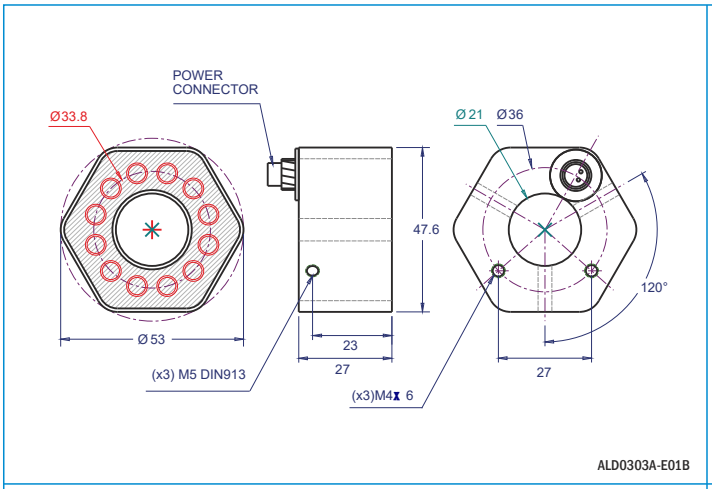
(6) Bear in mind that consumption table is only to be used as a guide. To refer to real values, please, consult product label when purchasing.

(7) Values of maximum instantaneous consumption of **'Type i'** lighting systems in ***Powered mode [Strobe mode / Continuous mode]***

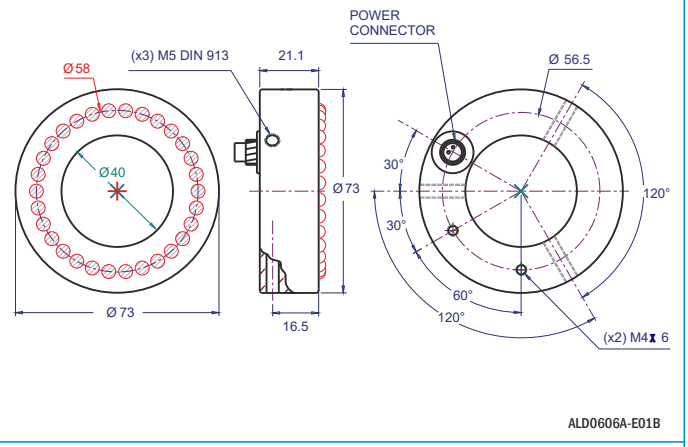
***ORDER REFERENCE = Lighting model + WT / MODIFIERS**

ALD21.01

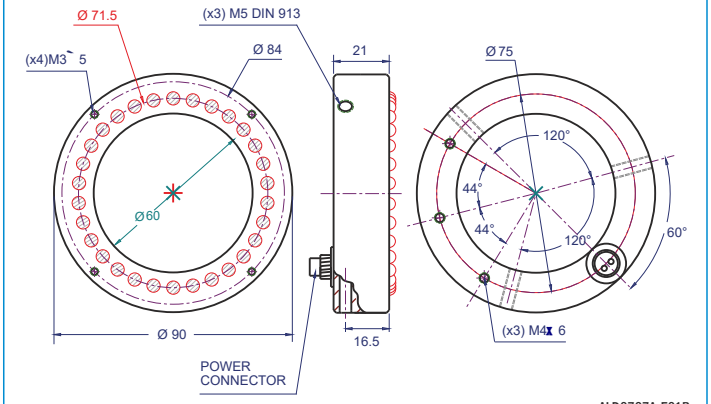
ALD SERIES



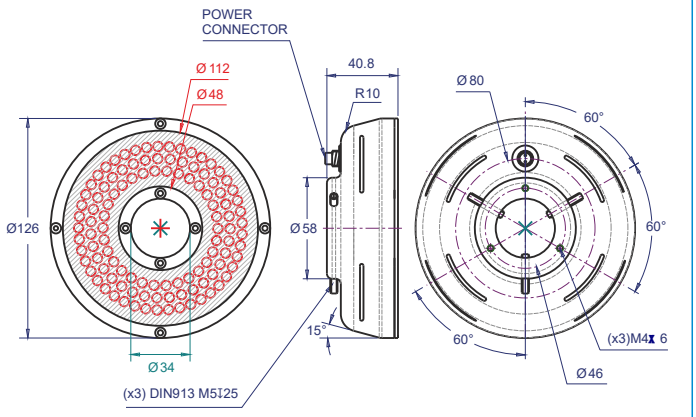
ALD0303A-E01B



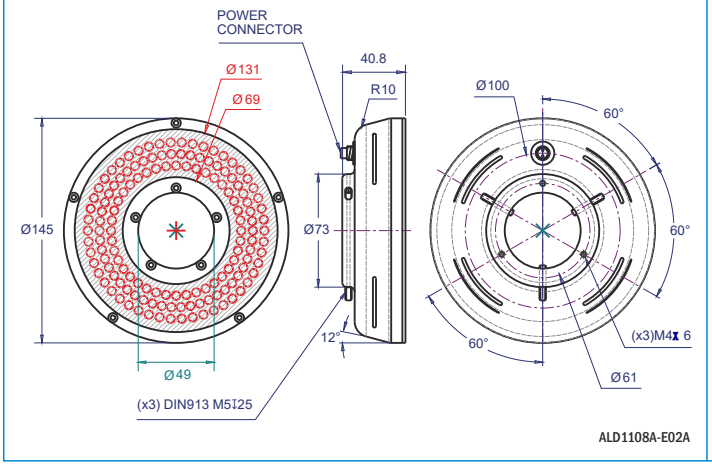
ALD0606A-E01B



ALD0707A-E01B

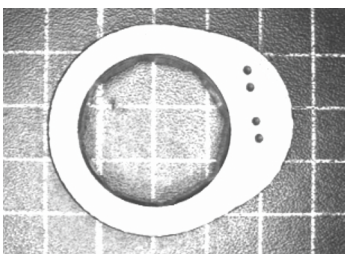


ALD0907A-E03A

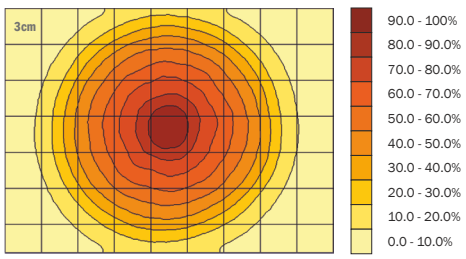


ALD1108A-E02A

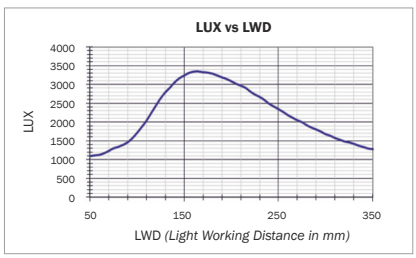
All units in millimeters, if not indicated.



Example of ALD captured image



Brightness distribution of ALD1108A-630C@165mm

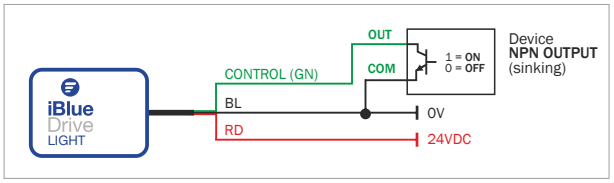


ALD1108A-630C light intensity.

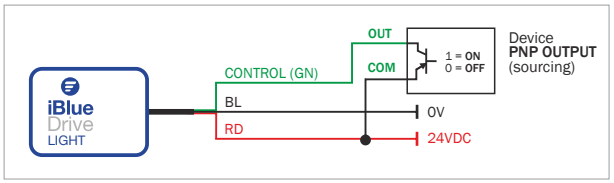
▶ Z2.1 - iBlueDrive control input wiring

All iBlueDrive products come together with a quick-start guide for connection and working conditions. Refer to iBlueDrive Manual for extended information.

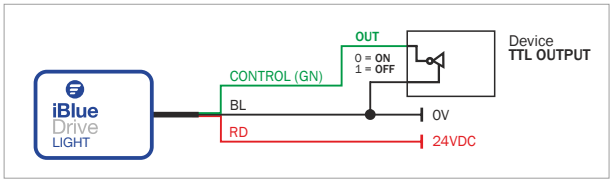
NPN wiring for strobe or ON/OFF mode



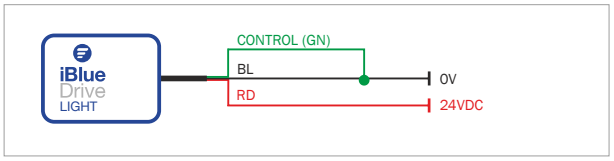
PNP wiring for strobe or ON/OFF mode



TTL wiring for strobe or ON/OFF mode

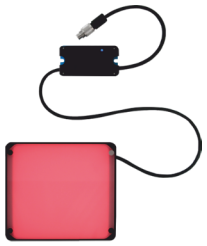


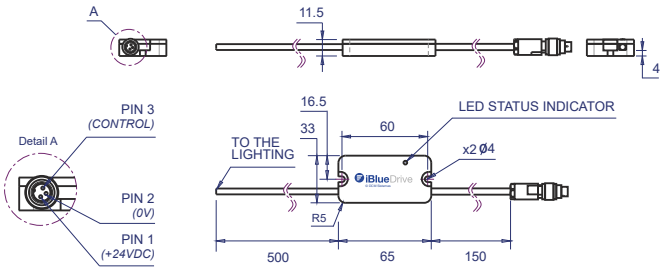
Wiring for continuous mode



▶ Z2.2 - iBlueDrive inline

iBlueDrive inline is the driver for iBlueDrive technology integrated as a box of 65x33mm to the cable that goes from the lighting system to the connector. It is used when iBlueDrive driver can not be integrated on chassis. *See diagram:*





WARNING!: In continuous and powered mode, clamp driver to a metal surface for heat dissipation. In Strobe mode is not required, but recommended.

▶ Z2.3 - iBlueDrive Accessories legend

icon	Description	Serie/Product
	Accessorie to configure iBlueDrive devices: **iBlueDrive Box, iBlueDrive USB**	**VTA0005A, VTA0006A, VTA0007A**
	iBlueDrive optocoupler	**VTA0020A**
	iBlueDrive potentiometer	**VTA0030B**

Z3.1 - Environmental Specifications

Max. Operating Humidity	85% non-condensing
Operating Temperature	0 - 40ºC
Storage Temperature	0 - 60ºC
Housing material	Anodized aluminium
Standards	CE, RoHS COMPLIANT

Z3.2 - Modifiers legend

icon	Description	Code
	Narrow angle of emission	**/AN**
	Medium angle of emission *(default)*	**/AM**
	Wide angle of emission	**/AW**
	Oval angle of emission = 23-24º (x) 17-18º (y)	**/AO**
	Diffuse emission	**/AD**
	Polarizer filter	**/FPL**
	Diffuser filter	**/FDR**
H	Backlight hole of 42mm	**/H**
H1	Backlight hole of 65mm	**/H1**
CC1	Dome hole of 46mm	**/CC1**
CC2	Dome hole of 40mm	**/CC2**
IPxx	IP Rating = IPxx = Ip65 / IP67	**/65 /67**
PNP	PNP input model	**/P**
f1	50mm focal Length	**/F1**
f2	150mm focal Length	**/F2**
f3	Infinite focal Length	**/F3**
XS	Lighting by sectors = 2 or 4 sectors	**/2S /4S**

Z3.3 - Accessories legend

icon	Description	Serie
	Power cable/s	**VCB, VCC, VCD Series**
	Other cable/s	**VCU, VCL**
	Strobe and RGB controller/s	**VST, VSC Series**
	Polarizer filter	**VPF, VPC**
	Diffuser filter	**VDF**
	Collimater filter on **x** axis	**VCFx**
	Collimater filter on **y** axis	**VCFy**
	Collimater filter on **xy** axis	**VCFxy**
	Darkfield converter	**VRF**
	Protector filter	**VPT**
	Heat dissipator	**VHD**
	Fixing bracket	**VBA, VBB, VBC Series**

Z3.4 - Technical drawings legend

icon	Description
	Optical axis
	Viewing window dimensions
	Lighting elements
	Light emission center
	Lighting surface dimensions

Z3.5 - Colours & Wavelegths legend

icon	Wavelength	Colour	Code
-u	365nm	UV-	**-365**
U	400nm	UV	**-400**
B	470nm	BLUE	**-470**
G	525nm	GREEN	**-525**
R	630nm	RED	**-630**
i	850nm/880nm	IR	**-850/-880**
W		WHITE	**-W00**
		RGB	**-RGB**

Z3.6 - Types of lighting legend

icon	Description
	Radial lighting
	'Darkfield' lighting effect. Low angle illumination
	Backlight illumination
	'Cloudy day' lighting effect
	'Bright field' lighting effect
	Projector lighting
	Axial lighting

Z3.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light