TPL VISION
Active LED solutions

LARGE FLAT LFDOME

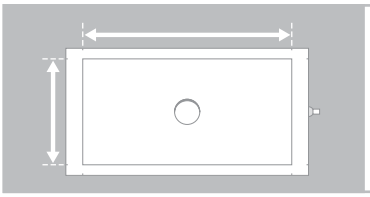
FLAT DOME, LARGE SIZE, POWERFUL LIGHTING

LED LIGHTING SYSTEM | MACHINE VISION APPLICATIONS | VERY DIFFUSE LIGHT | REINFORCED STRUCTURES | FIT CAMERA'S LENSES

FOR A VERY DIFFUSE DIRECT LIGHTING.

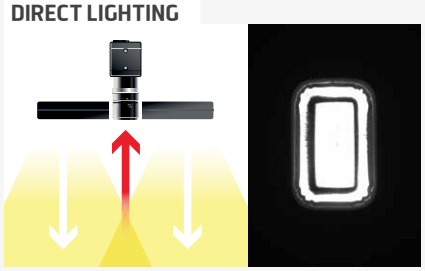
- Homogeneous lighting,
- tailor-made manufacturing,
- continuous and strobe modes.

The LARGE FLAT LFDOME belongs to the flat dome family. Thanks to the hole located in the middle, you can easily insert the camera's lens. The LFDOME is tailor-made and assembled with aluminum structures, especially designed for big sizes. Thanks to the LFDOME, you will get a directive very diffuse lighting. This lighting is really appreciated to detect pieces at the bottom of a container, to highlight thermoformed products and to improve the contrast between various materials. The LFDOME can work in continuous and strobe mode.



THE LARGE FLAT LFDOME, EQUIPPED WITH REINFORCED STRUCTURES, IS AVAILABLE IN VARIOUS DIMENSIONS:
From 400 x 200 mm to 1 000 x 1 000 mm and 1 500 x 850 mm.

DIRECT LIGHTING



TECHNICAL SPECIFICATIONS

Electronics	
Power supply	24 VDC +/-10%
Functioning mode	Continuous or strobe according to wiring
Maximum rising time	1.5 ms
Maximum falling time	1 ms
Wiring	From 1 to 5 M12 4 poles male connectors (according to size)
Max. Consumption	See table
Optics	
Colour	White, Red, Green, Blue, Infrared
Mechanics	
thickness	60 mm
Width x length	From 400 x 200 mm to 1000 x 1000 mm and 1500 x 850 mm
Central hole diameter	60 mm
Body materials	Aluminum
Diffuser	Opaque diffuser
Fixing	4 M6 screws (not supplied)
Environment	
Operating temperature	0 - 40°C
Storage temperature	0 - 60°C
IP protection	IP 40
Labels	RoHS-CE-DEEE

RELATED PRODUCTS

Ask for your add-ons, customized for the Large Flat LFDOME :

- wiring
- fixing hardware
- safety glasses

HOW TO BUILD ONE'S REFERENCE

REQUIRED SETTINGS

LFDOME	A	B	06	–	COLOUR
	useful length of the side without connector *	useful length of the side with connector *			

COLOUR	
WHI	
630	
525	
470	
850	

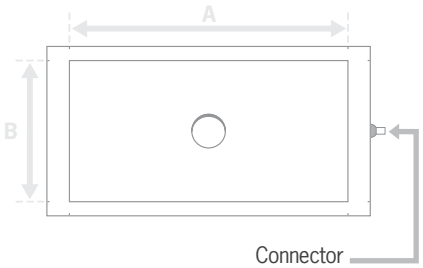
*** Please refer to the table on the opposite page to know the feasible dimensions.**

EXAMPLES :

LFDOME A = 200 mm B = 200 mm WHITE LEDS : ➡ LFDOME202006-WHI
LFDOME A = 400 mm B = 300 mm RED LEDS : ➡ LFDOME403006-630
LFDOME A = 600 mm B = 400 mm BLUE LEDS : ➡ LFDOME604006-470

RESULTS :

MY CONTACT



A = useful length of the side **without** connector, in centimeters.

B = useful length of the side **with** connector, in centimeters.

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Other available documents :

- PDF, DWG, DXF, IGS, STEP & X_Y DRAWINGS
- USER'S GUIDE

MAX. CONSUMPTION TABLE

White lighting | Green lighting | Blue lighting

B (mm) \ A (mm)	400	450	500	550	600	650	700	750	800
400	83	83	99	99	99	125	125	125	165
450	83	83	99	99	99	125	125	125	165
500	99	99	124	124	124	152	152	152	198
550	99	99	124	124	124	152	152	152	198
600	99	99	124	124	124	152	152	152	198
650	125	125	152	152	152	188	188	188	250
700	125	125	152	152	152	188	188	188	250
750	125	125	152	152	152	188	188	188	250
800	165	165	198	198	198	250	250	250	329

Consumption (W)	Number of cables
0-95	1
96-191	2
192-287	3
>288	4

Red lighting

B (mm) \ A (mm)	400	450	500	550	600	650	700	750	800
400	61	61	74	74	74	92	92	92	122
450	61	61	74	74	74	92	92	92	122
500	74	74	92	92	92	112	112	112	148
550	74	74	92	92	92	112	112	112	148
600	74	74	92	92	92	112	112	112	148
650	92	92	112	112	112	138	138	138	183
700	92	92	112	112	112	138	138	138	183
750	92	92	112	112	112	138	138	138	183
800	122	122	148	148	148	183	183	183	244

Consumption (W)	Number of cables
0-95	1
96-191	2
192-287	3
>288	4

Infrared lighting

B (mm) \ A (mm)	400	450	500	550	600	650	700	750	800
400	69	69	83	83	83	104	104	104	138
450	69	69	83	83	83	104	104	104	138
500	83	83	104	104	104	126	126	126	166
550	83	83	104	104	104	126	126	126	166
600	83	83	104	104	104	126	126	126	166
650	104	104	126	126	126	156	156	156	208
700	104	104	126	126	126	156	156	156	208
750	104	104	126	126	126	156	156	156	208
800	138	138	166	166	166	208	208	208	275

Consumption (W)	Number of cables
0-95	1
96-191	2
192-287	3
>288	4

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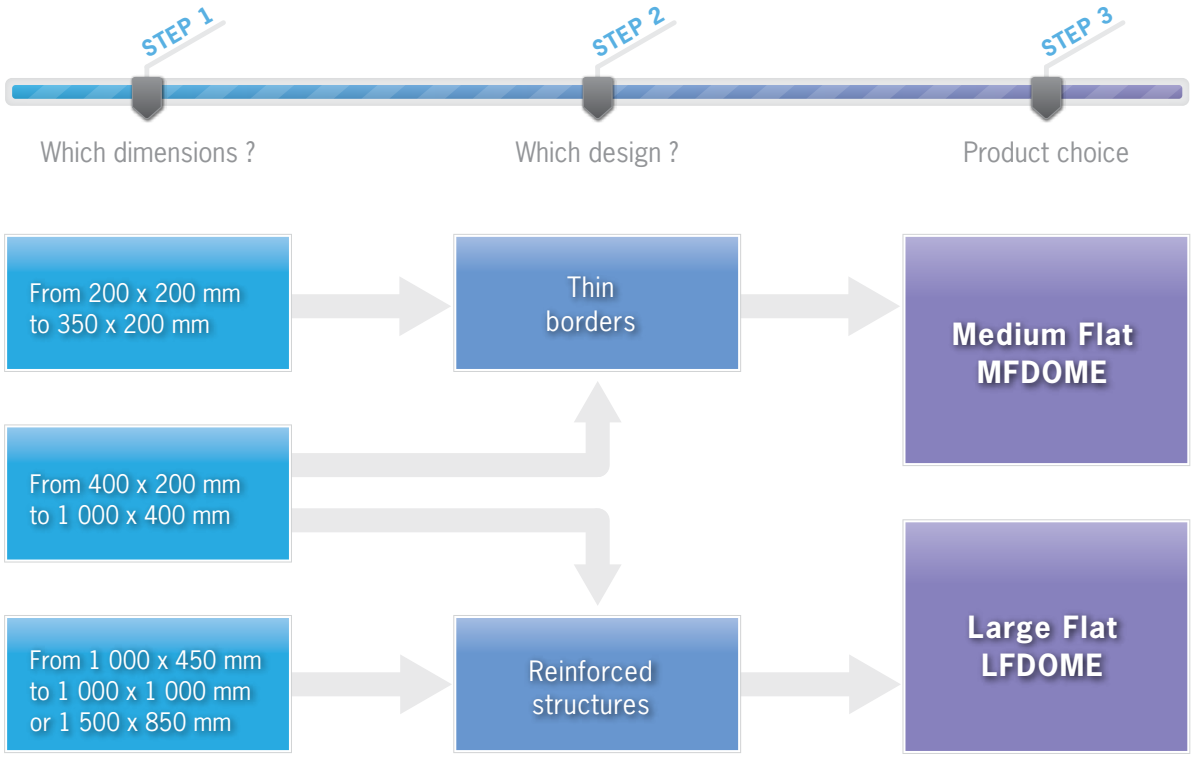
HOW TO CHOOSE YOUR FLAT DOME ?



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