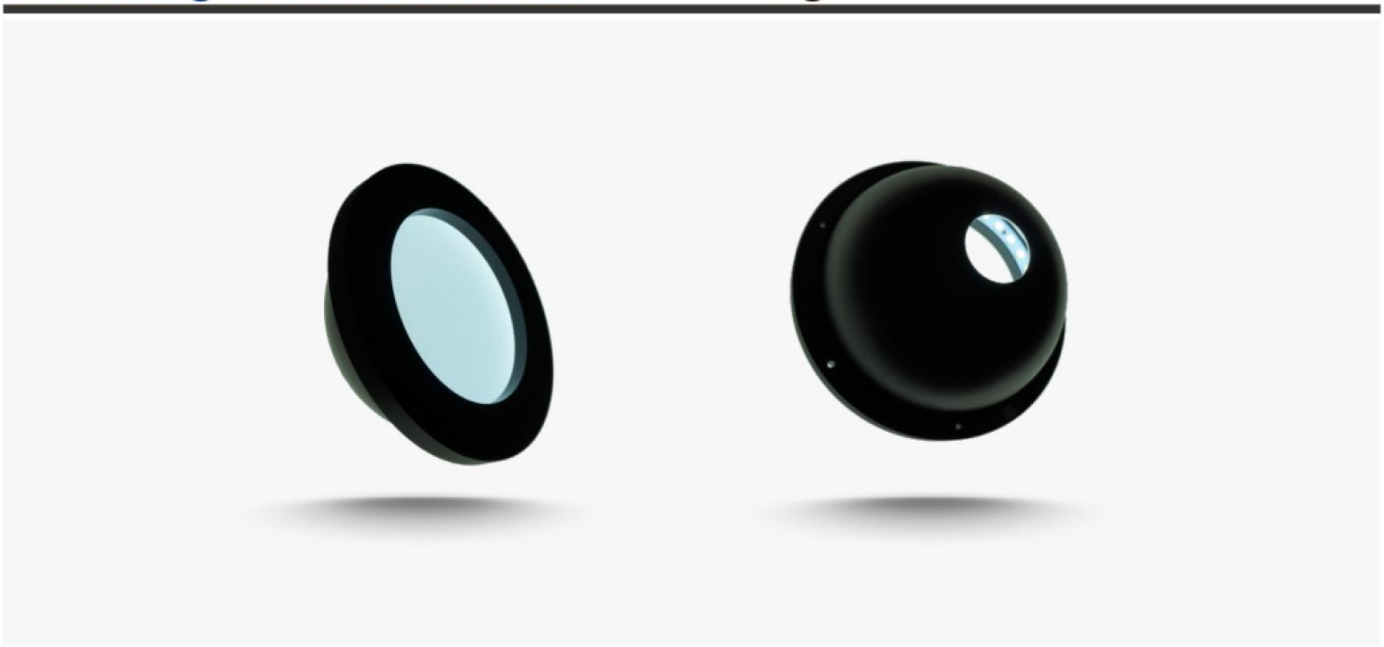
Dome Light Source Series–Dome Light Source



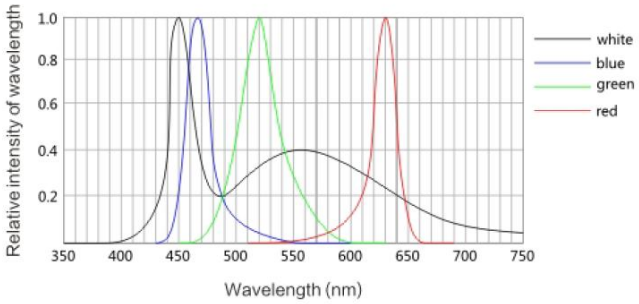
Product Features

- ◆Similar to the effect of shadowless light source;
- ◆The light shines on the inner wall of the hemisphere and then diffuses on the measured object, making the light more uniform;
- ◆Eliminate the problem of uneven and reflective surfaces on the illuminated object.

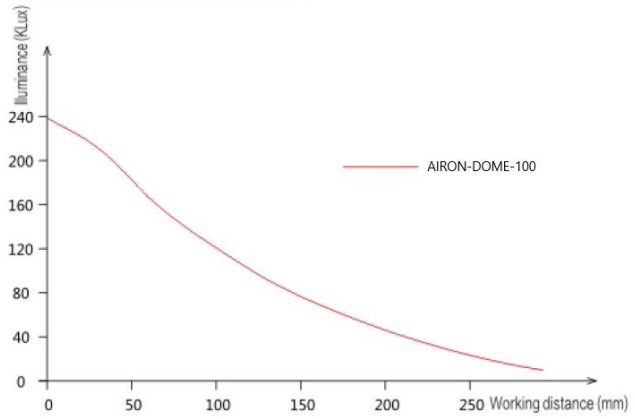
Application scope

- ◆Surface and arc defect detection;
- ◆Edge extraction of workpieces;
- ◆Character detection;
- ◆Line detection.

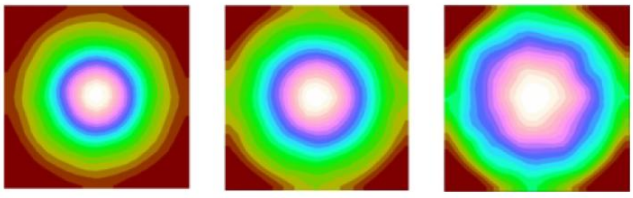
Spectral diagram



Illumination map



Uniformity diagram



LWD=10mm LWD=50mm LWD=100mm

Sectional structure diagram

Note: This image is only for illustration purposes and may not be identical to the actual product

Wavelength/ Color Temperature	Red (R)	620–630nm	Green (G)	520–530nm
	Blue (B)	460–470nm	White (W)	6500 ± 500K
	Infrared (IR)	850/940nm	Ultraviolet (UV)	365–405nm
Save environment	humidity	–20~60℃	humidity	20~80% (non condensing)
Usage environment		0~40℃		
Select accessories	Light source extension cable			
Service life/warranty	When the ambient temperature is 25 ℃, the brightness of the light source will decrease by less than 30% after 10000 hours of use (excluding ultraviolet)			
	When the ambient temperature is 25 ℃, the 100% brightness of the ultraviolet light source will decay by less than 30% after 1000 hours of use			
	Within one year of shipment, if there is a malfunction due to non–human factors, free repair or replacement services will be provided			

Application case of dome light source

analyte

Test item:
Character detection for vacuum packaging bags

Content	Character detection for vacuum packaging bags
Tested item	packing bag
Difficulties in the plan	The surface of the packaging bag is uneven
Application	KCS–CKH–175–W
Light sourceresult	Clear character imaging and error free character recognition

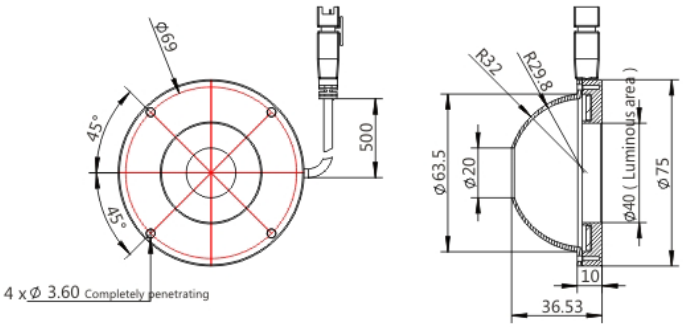
Lighting diagram

Imaging rendering

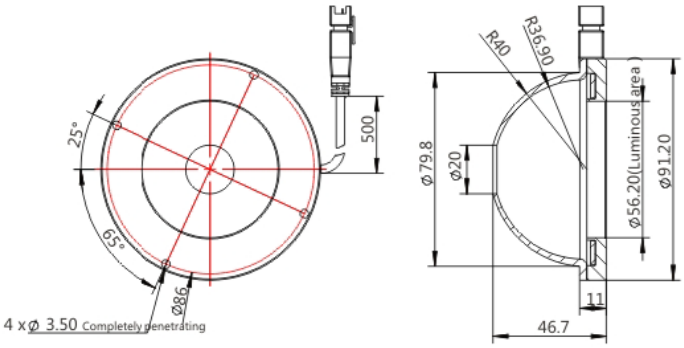
Software processing rendering

Serial number	Model	Voltage	Power		Weight (g)
			R	G/B/W	
1	AIRON-DOME-65	24	4	5	100
2	AIRON-DOME-80	24	6	6.4	160
3	AIRON-DOME-100	24	8	10	250
4	AIRON-DOME-120	24	9	11.6	300
5	AIRON-DOME-150	24	11	14	370
6	AIRON-DOME-175	24	12	18	450
7	AIRON-DOME-210	24	14	20	640
8	AIRON-DOME-240	24	16	24	760
9	AIRON-DOME-275	24	20	28	840
10	AIRON-DOME-320	24	22	32	900
11	AIRON-DOME-350	24	24	35	940
12	AIRON-DOME-400	24	28	40	990

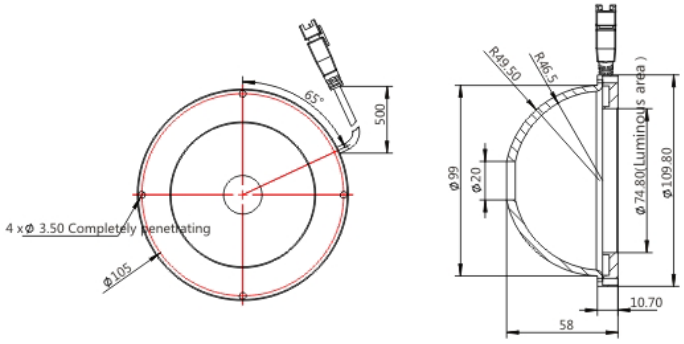
1 AIRON-DOME-65



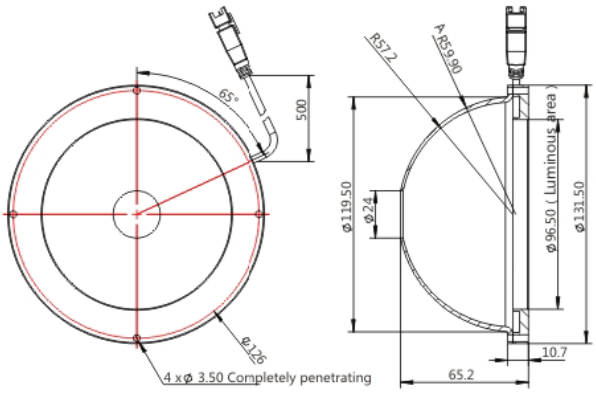
2 AIRON-DOME-80



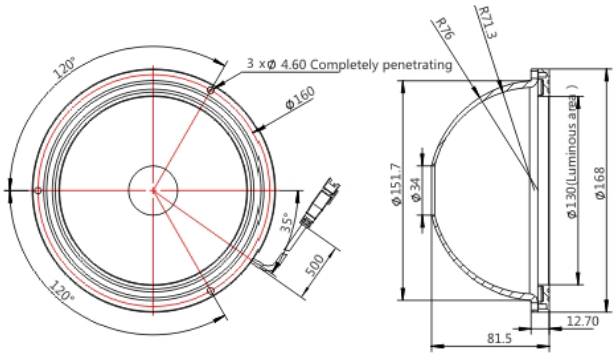
3 AIRON-DOME-100



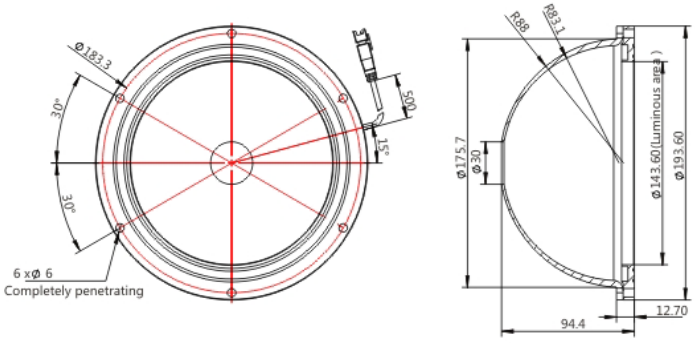
4 AIRON-DOME-120



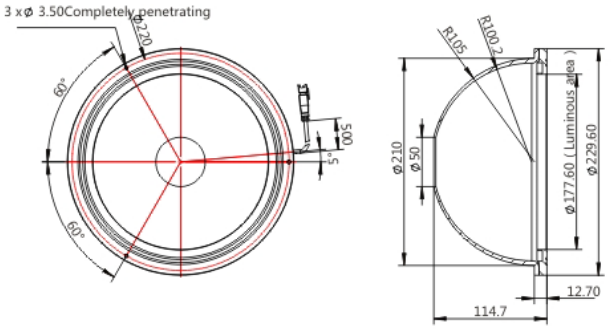
5 AIRON-DOME-150



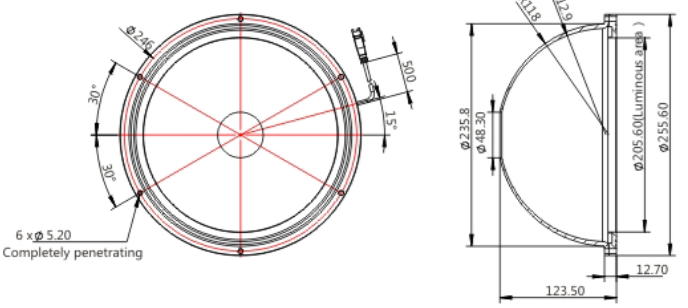
6 AIRON-DOME-175



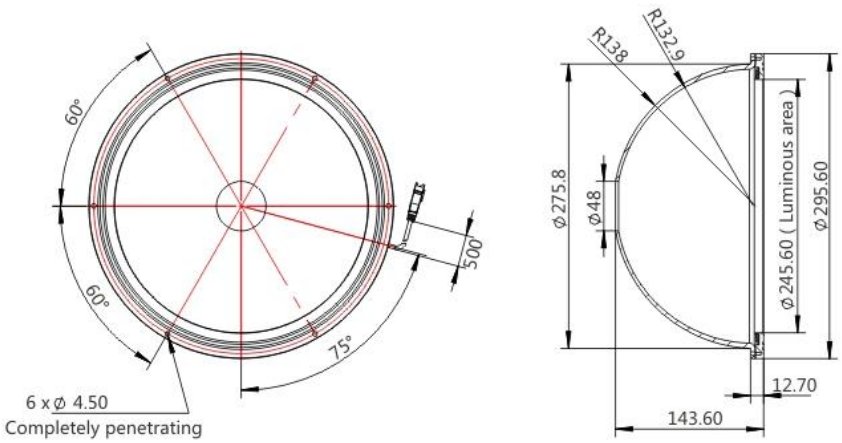
7 AIRON-DOME-210



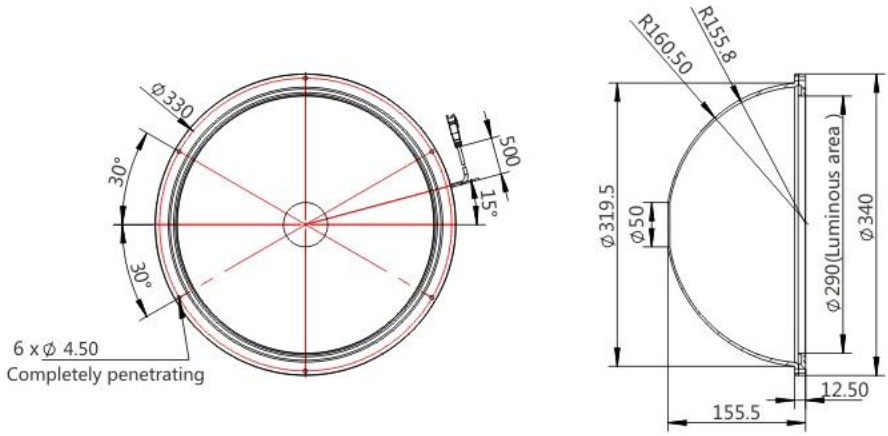
8 AIRON-DOME-240



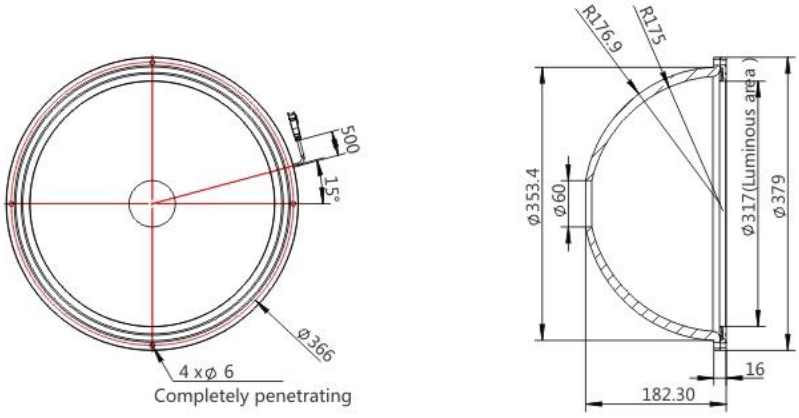
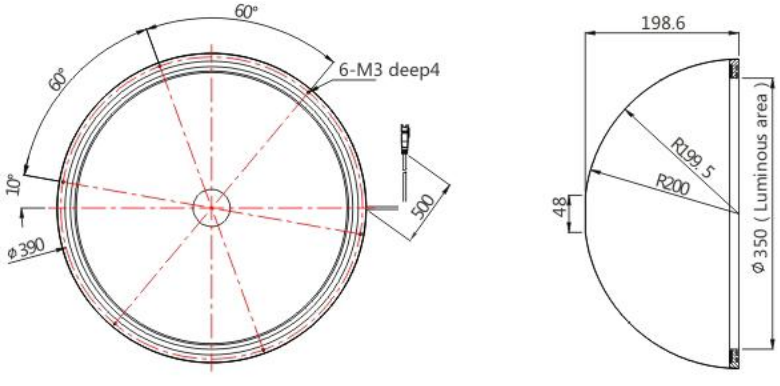
9 AIRON-DOME-275



10 AIRON-DOME-320



11 AIRON-DOME-350



12 AIRON-DOME-400