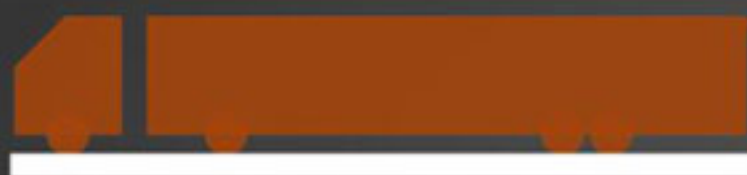


Wide View Angle Night Vision Waterproof Backup Camera

Part No:LC-012A

170° (H=105°) For reversing safety



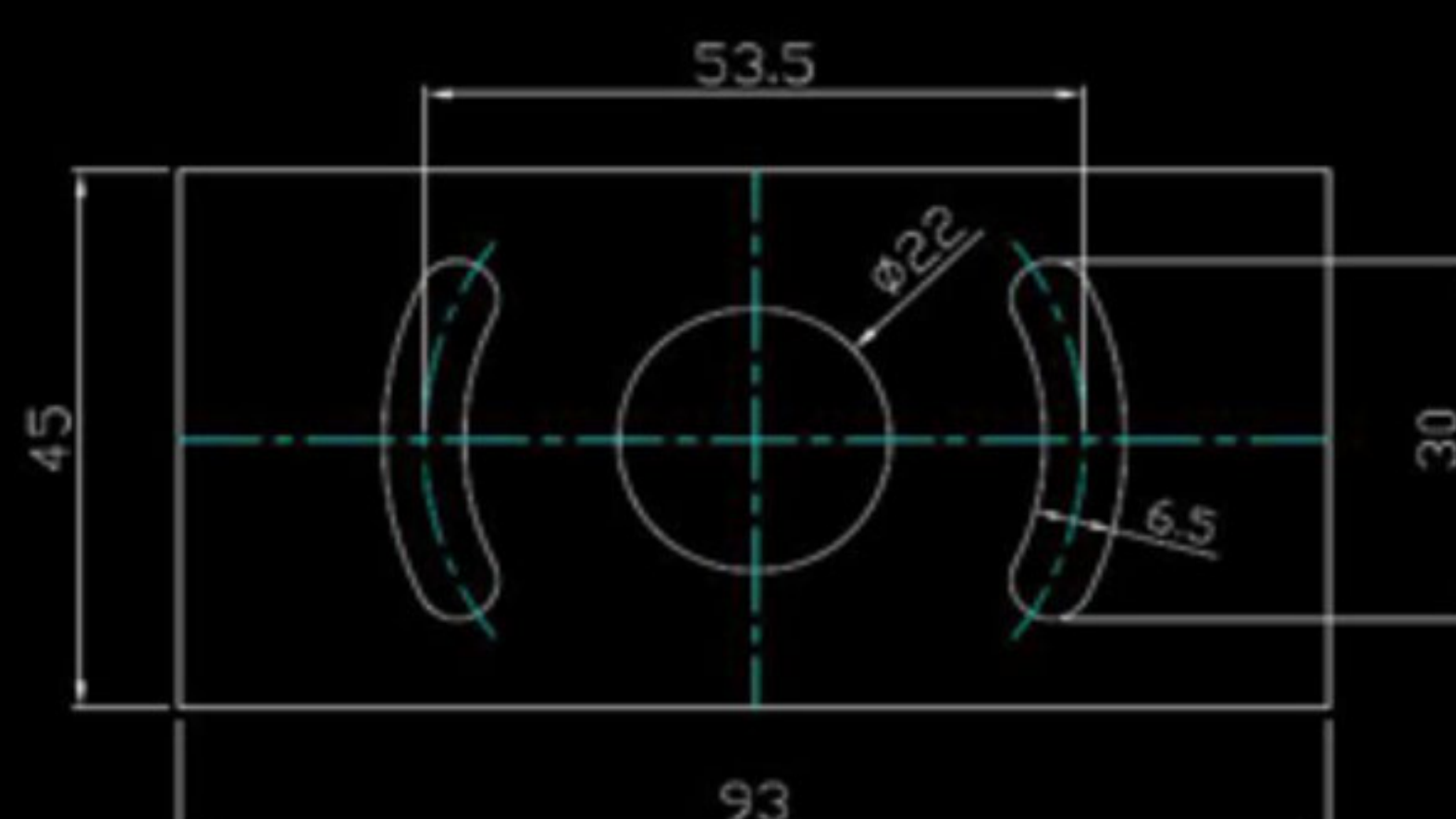
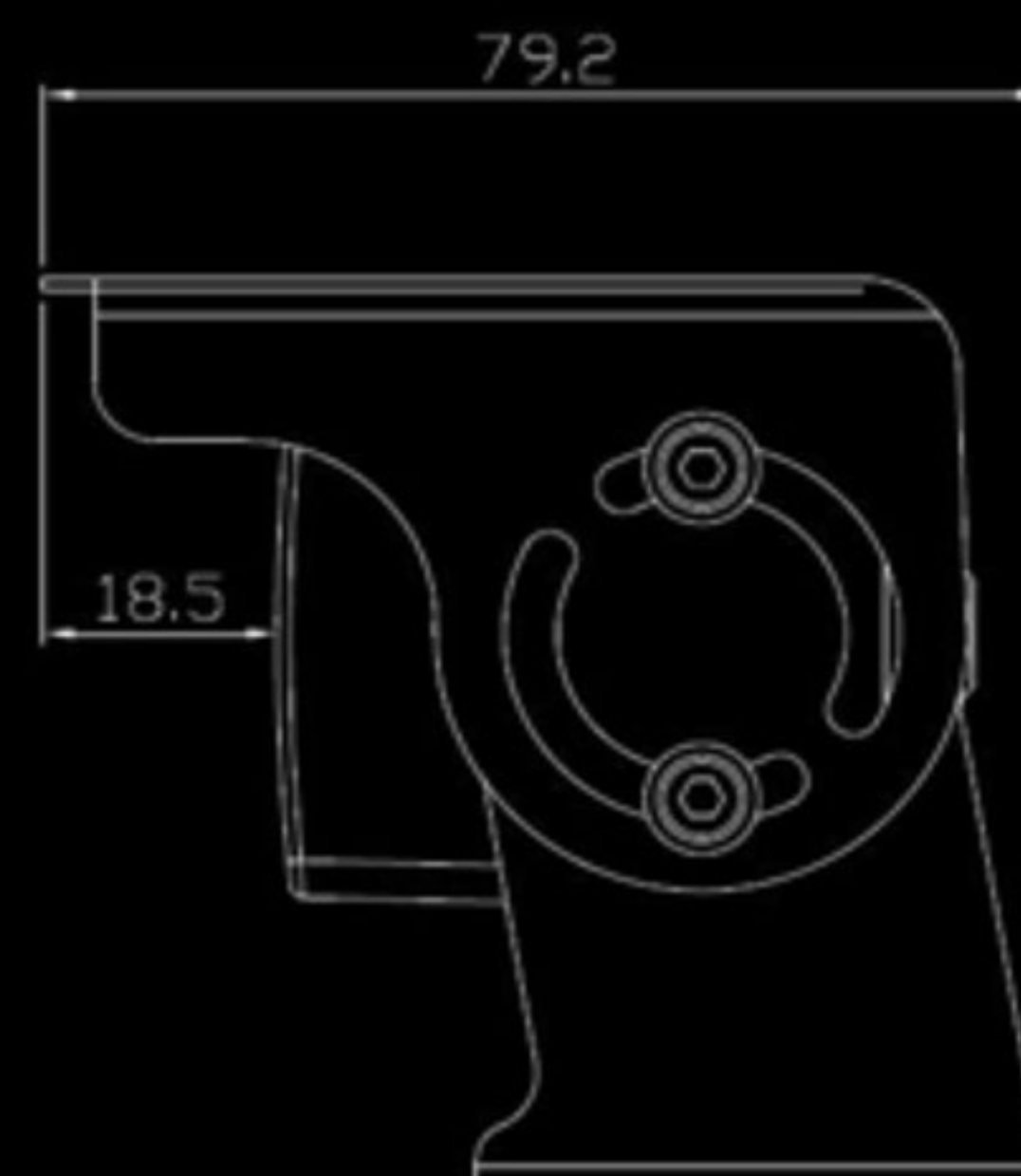
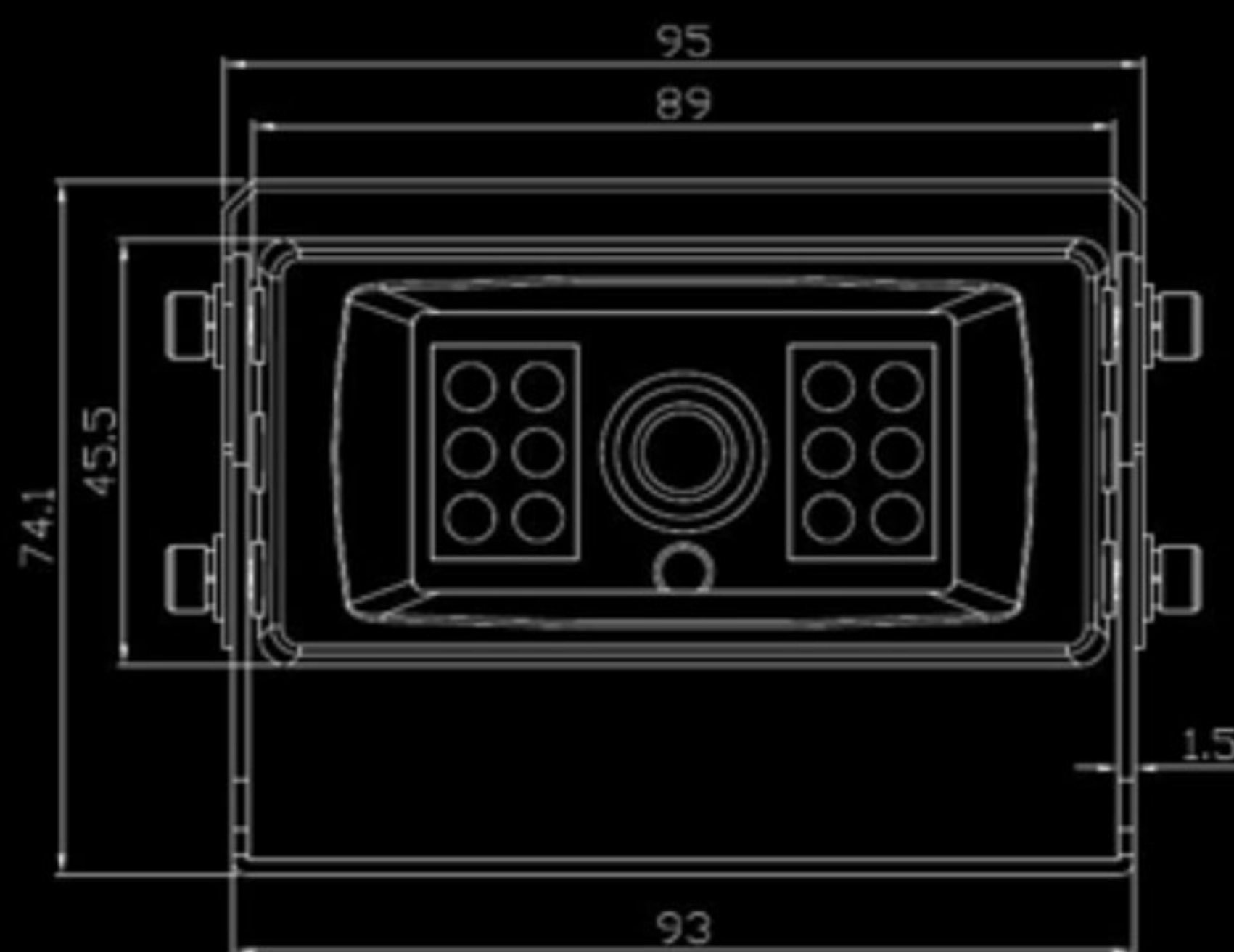


Features:

- E-mark (E9) , CE, FCC certification
- Waterproof rating: IP69K
- Wide view angle = 170°(Horizontal = 105°)
- Sharp CCD/Sony CCD/Pixelplus CMOS/Aptina AHD Cmos optional
- Full Aluminium alloy housing
- Mirror / Normal image switch (optional)
- Heater built-in for -40°C~+70°C environment (optional)



Dimensional Drawing:



Specification:

LC-012A Wide view angle camera

Subject	Standard Parameter	Optional Parameter
Image sensor	1/3" SONY CCD	1/3" APTINA CMOS
Resolution	N:976×494 pixels P:1020×508pixels	1280*960(1.2M Pixels)
Horizontal Resolution	700TV Lines	960P
Lens	2.75mm	1.7mm
View angle	170°(D)/ 105°(H)/ 85°(V)	
Min illumination	0LUX(LED ON)	
IR LED	12pcs (Night vision 8-10m)	
TV System	NTSC / PAL	
Power supply	12V DC	
Current consumption	150mA	130mA
Power consumption	1.8W(@12V DC)	1.5W(@12V DC)
Waterproof rating	IP69k	
Weight	508g	
Dimension(W*H*D)	95*74*80mm(Camera)	
Operation temperature	-20°C~+70°C	





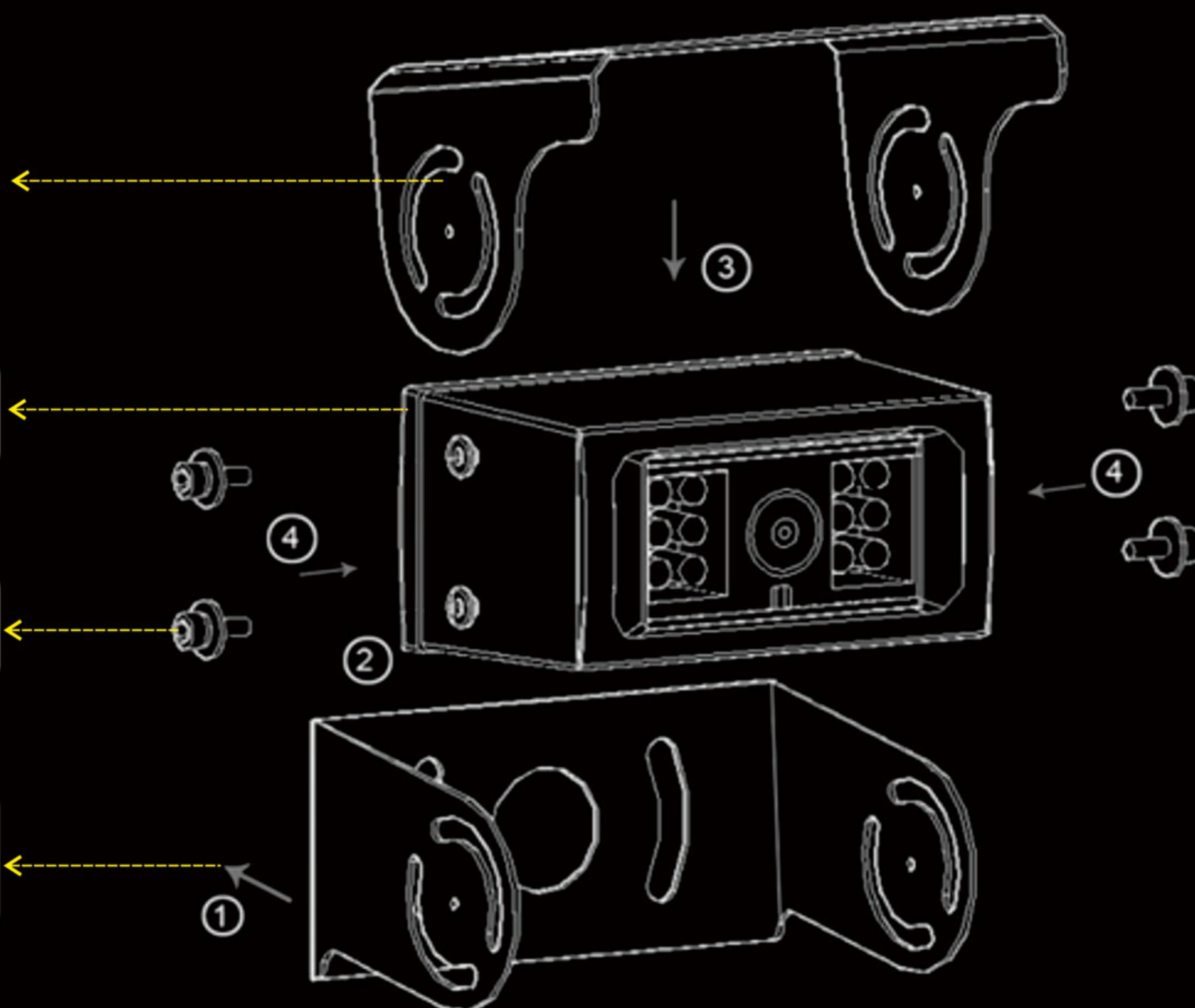
Basic Operation:

Step 3: Fit on sun shield.

Step 4: Adjust the camera's view direction, screw up 4 screws.

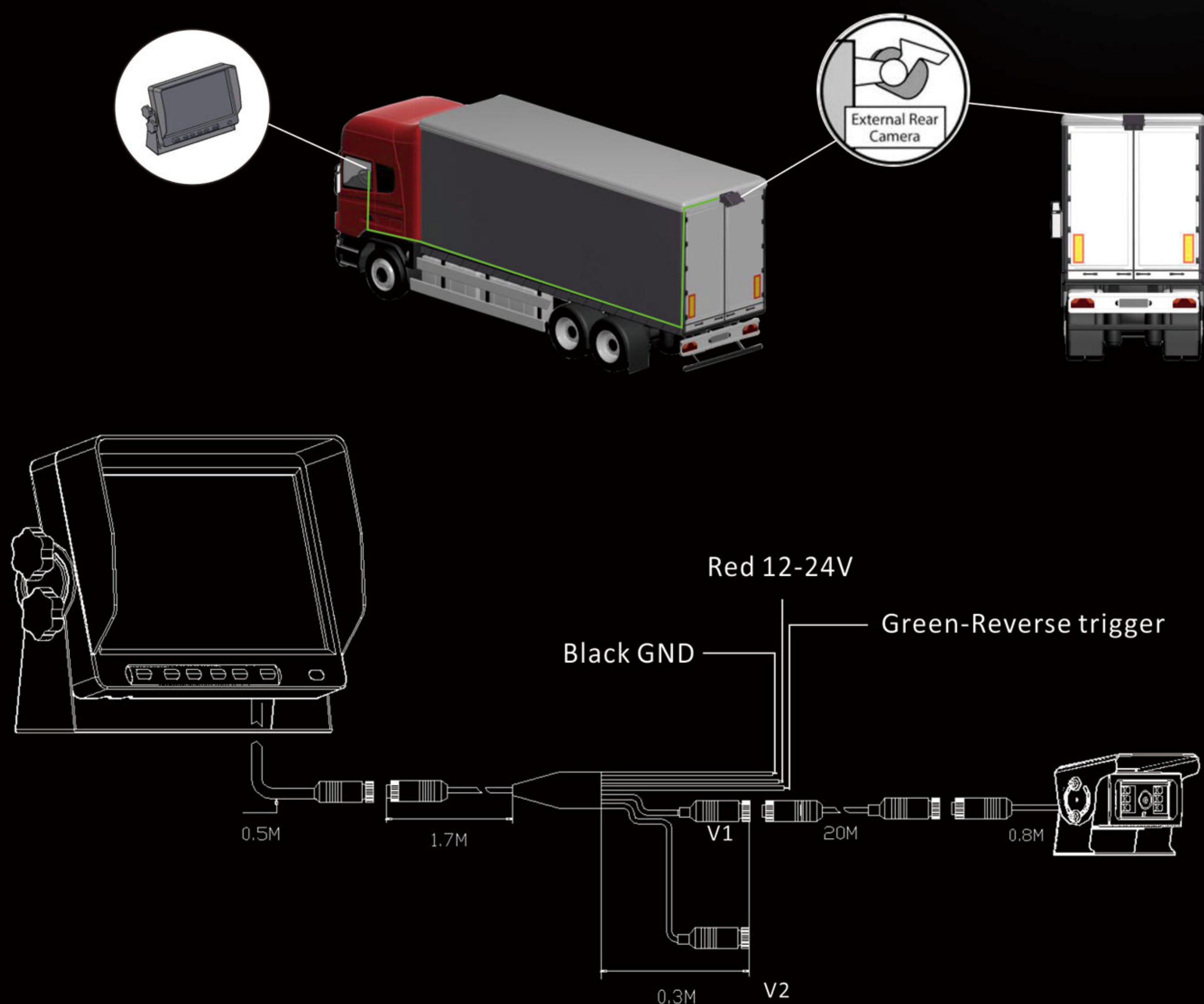
Step 2: Camera embed + cable pass through the hole.

Step 1: Mounted the bracket on the correct position of vehicle.



Position Camera:

Mount camera assembly high mounted. (Centred.)



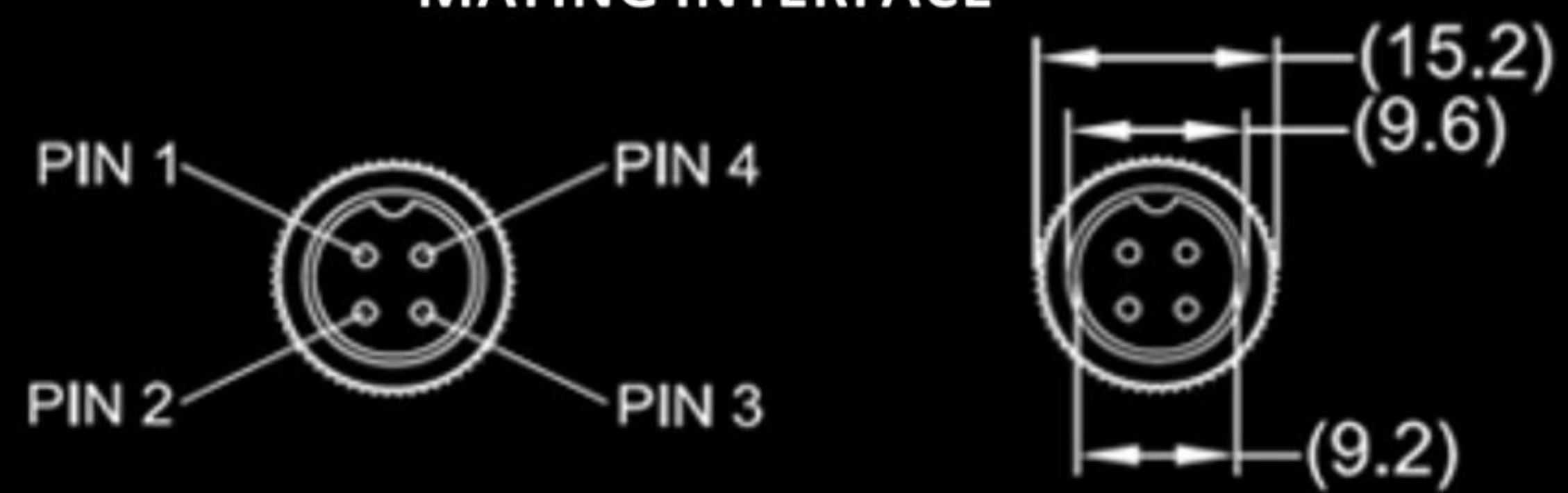


Connector Definition:



M12 4 pins Aviation Female Connector

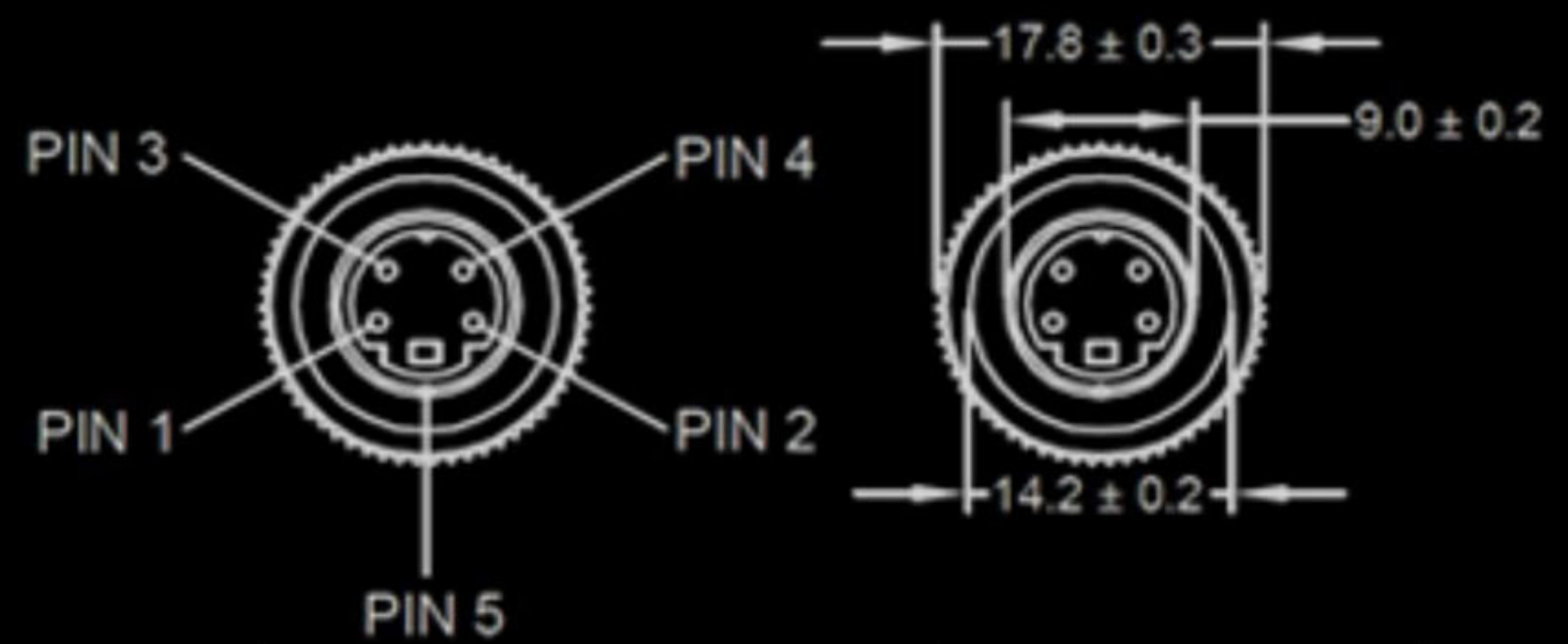
4PIN FEMALE MATING INTERFACE



PIN#	WIRE COLOR	DESCRIPTION
1	RED	+12V
2	BLACK/SHIELD	GND
3	WHITE	AUDIO
4	YELLOW	VIDEO



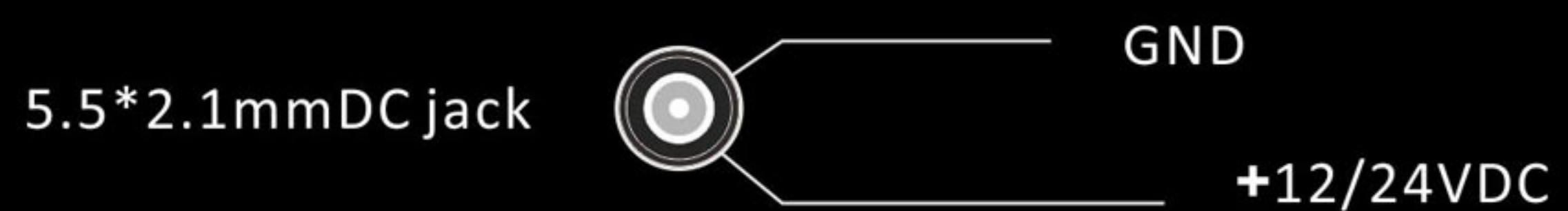
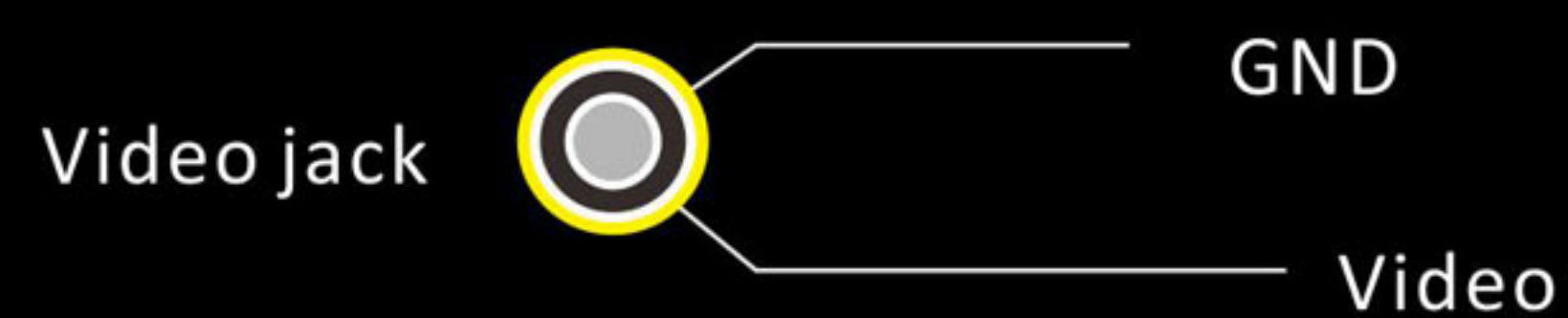
S-Video 4-pin Aviation Male Connector



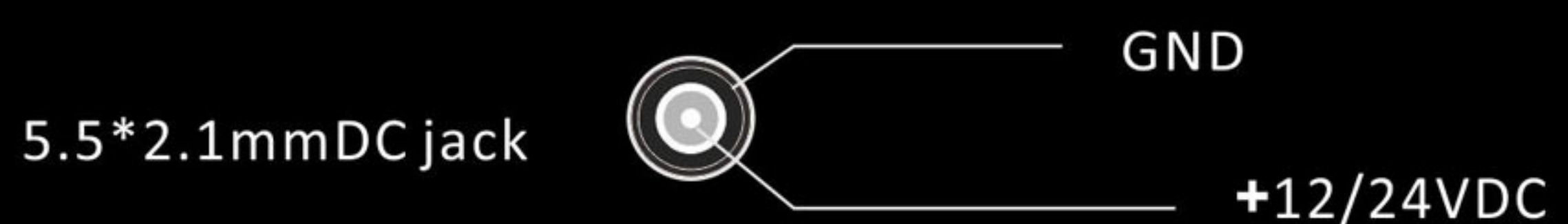
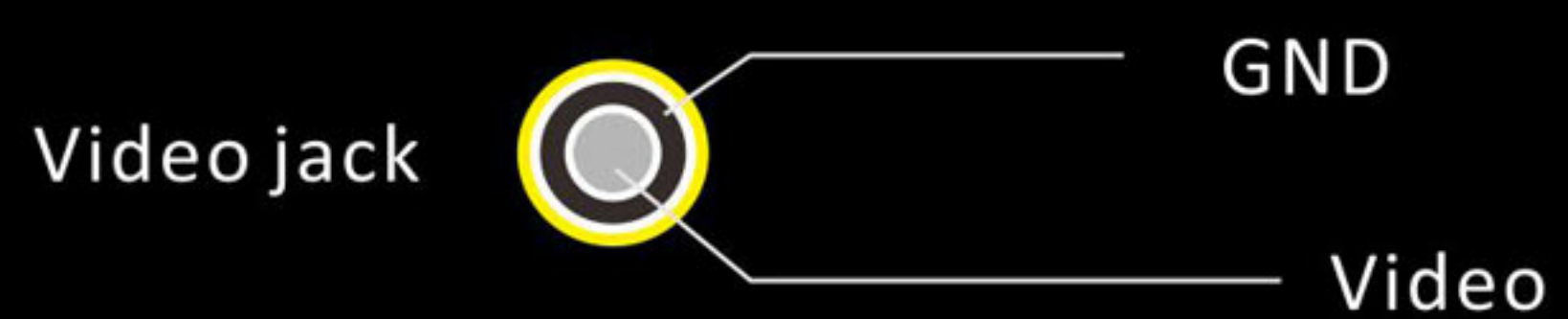
PIN#	WIRE COLOR	DESCRIPTION
1	YELLOW	VIDEO
2	RED	+12V
3	BLUE	N.C
4	WHITE	AUDIO
5	BLACK/SHIELD	GND



RCA + DC



BNC + DC



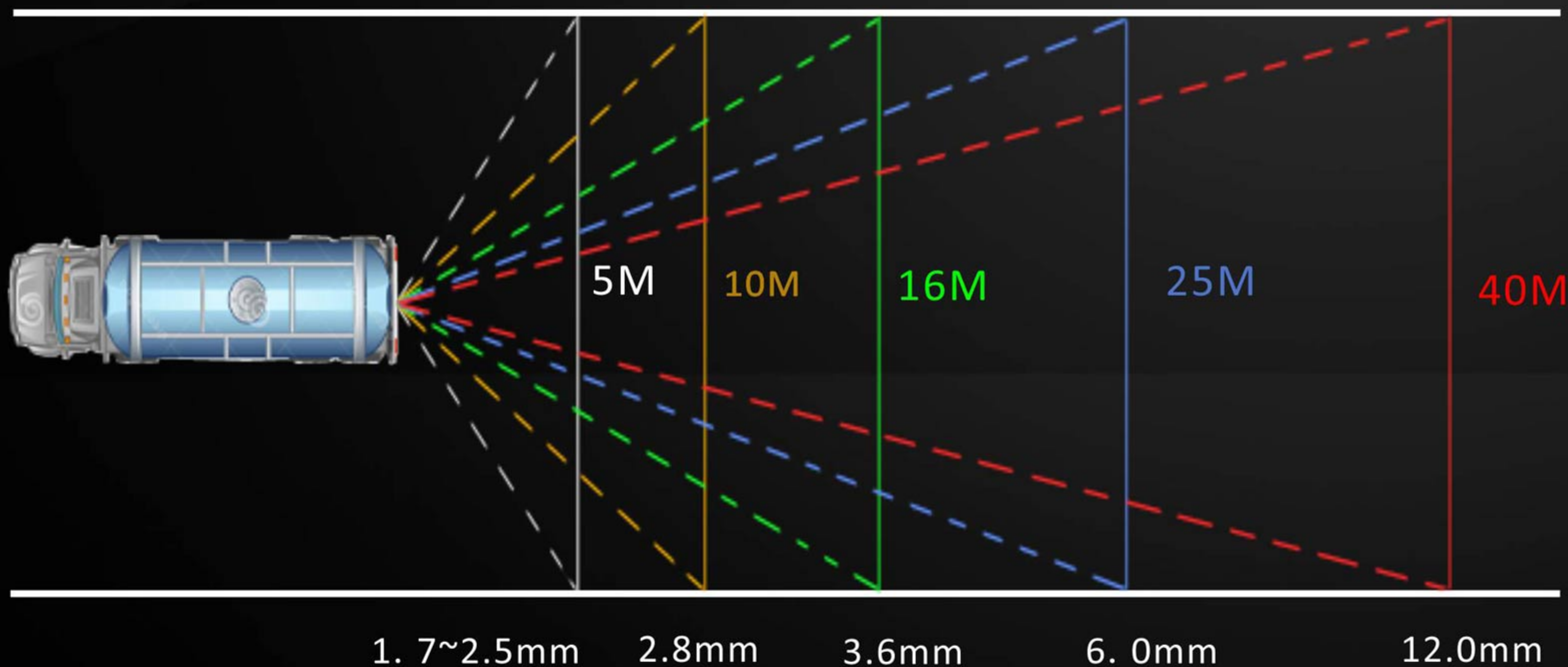


View Angle & Lens:

1/4" CCD Sensor (default lens = 1.7mm)								
Lens (mm)	1.7	2.5	2.8	3.6	4.3	6.0	8.0	12.0
Diagonal	133°	110°	80°	73°	63°	48°	33°	23°
Horizontal	107°	87°	65°	59°	53°	40°	28°	20°
Vertical	73°	63°	50°	45°	40°	31°	23°	15°

1/3" CCD Sensor (default lens = 2.75mm)								
Lens (mm)	2.75	2.8	New2.8	3.6	4.3	6.0	8.0	12.0
Diagonal	140°	105°	115°	93°	82°	61°	45°	30°
Horizontal	109°	85°	88°	75°	65°	50°	37°	25°
Vertical	80°	64°	68°	59°	51°	39°	29°	19°

View angle	105°	80°	75°	50°	25°
View distance	5M	10M	16M	25M	40M

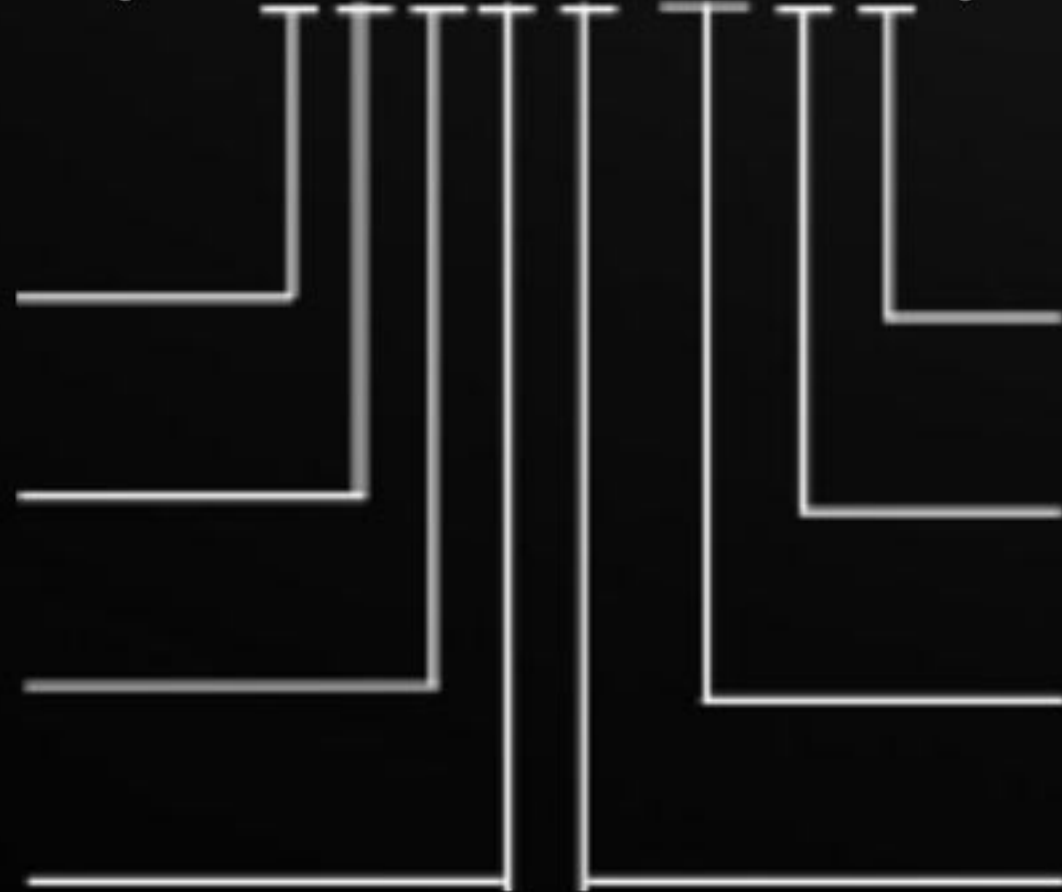




Order code:

Sensor type	Order code
1/3" APTINA CMOS AHD 720P 1280*960(1.2M Pixels)	1
1/4" Sharp CCD 420TVL N:510 x 492pixels P:500 x 582 pixels	2
1/4" SONY CCD 420TVL N:510 x 492pixels P:500 x 582 pixels	3
1/3" SONY CCD 480TVL N:752 x 494pixels P:752 x 582 pixels	4
1/3" SONY CCD 580TVL N:752 x 494pixels P:752 x 582 pixels	5
1/3" SONY CCD 650TVL N:976 x 494pixels P:976 x 596 pixels	6
1/3" SONY CCD 700TVL N:976x 494pixels P:1020 x 508 pixels	7
Optional Function	
Audio(Microphone built-in)	0(NO) / 1(Yes)
Heater built-in	0(NO) / 1(Yes)
Mirror/Normal image Switch	0(NO) / 1(Yes)
Connector:4PIN/RCA/S-video/BNC	1 / 2 / 3 / 4
Voltage	12 / 24
Color	B(Black) / W(White)
TV system	P(PAL) / N(NTSC)

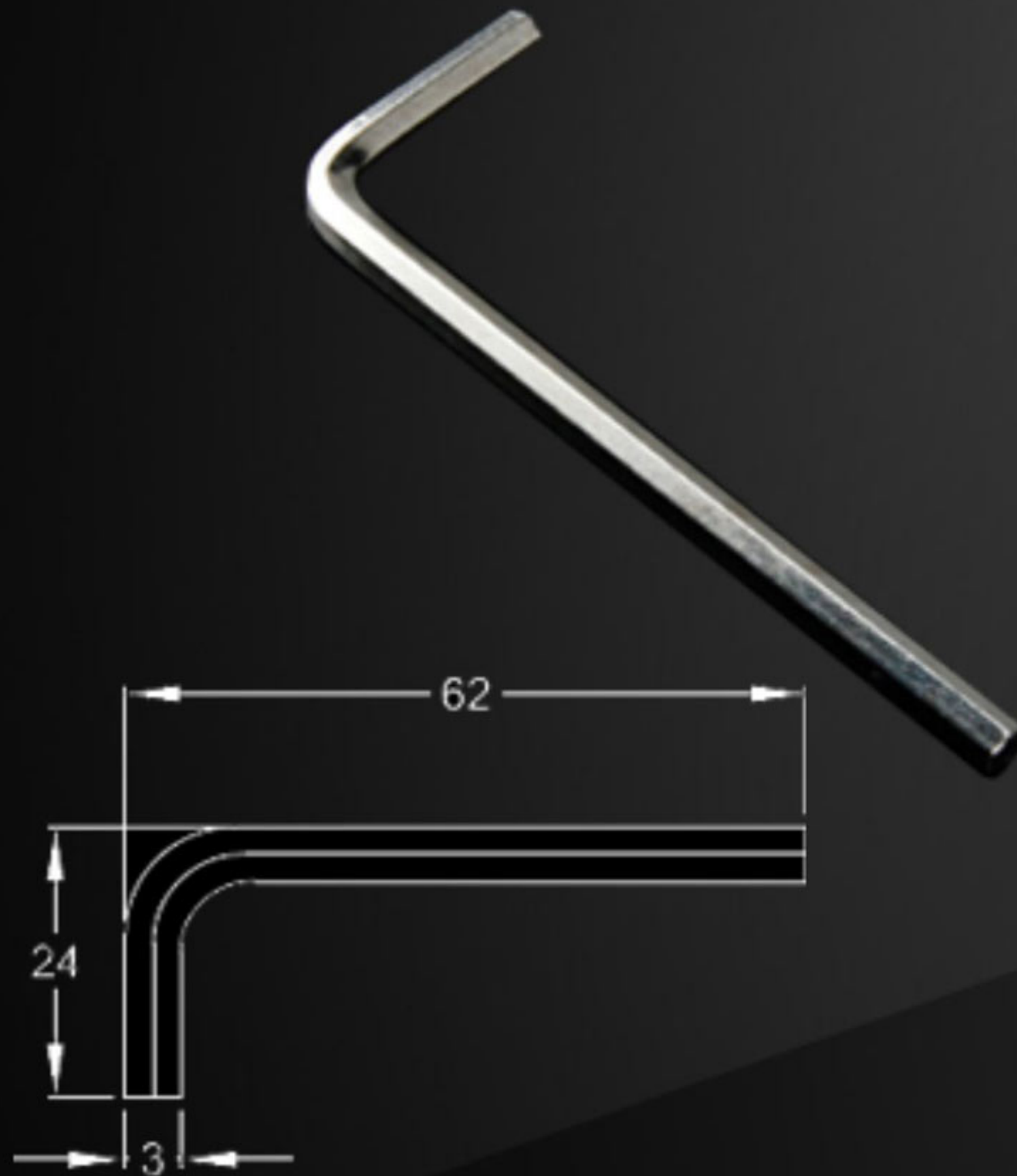
Original Code Definition:

LC-012A(#:7001212BP)		
1/3" SONY CCD 700TVL		TV system PAL
NO Microphone		Color black
NO Heater		Voltage 12V DC
With Switch		RCA connector

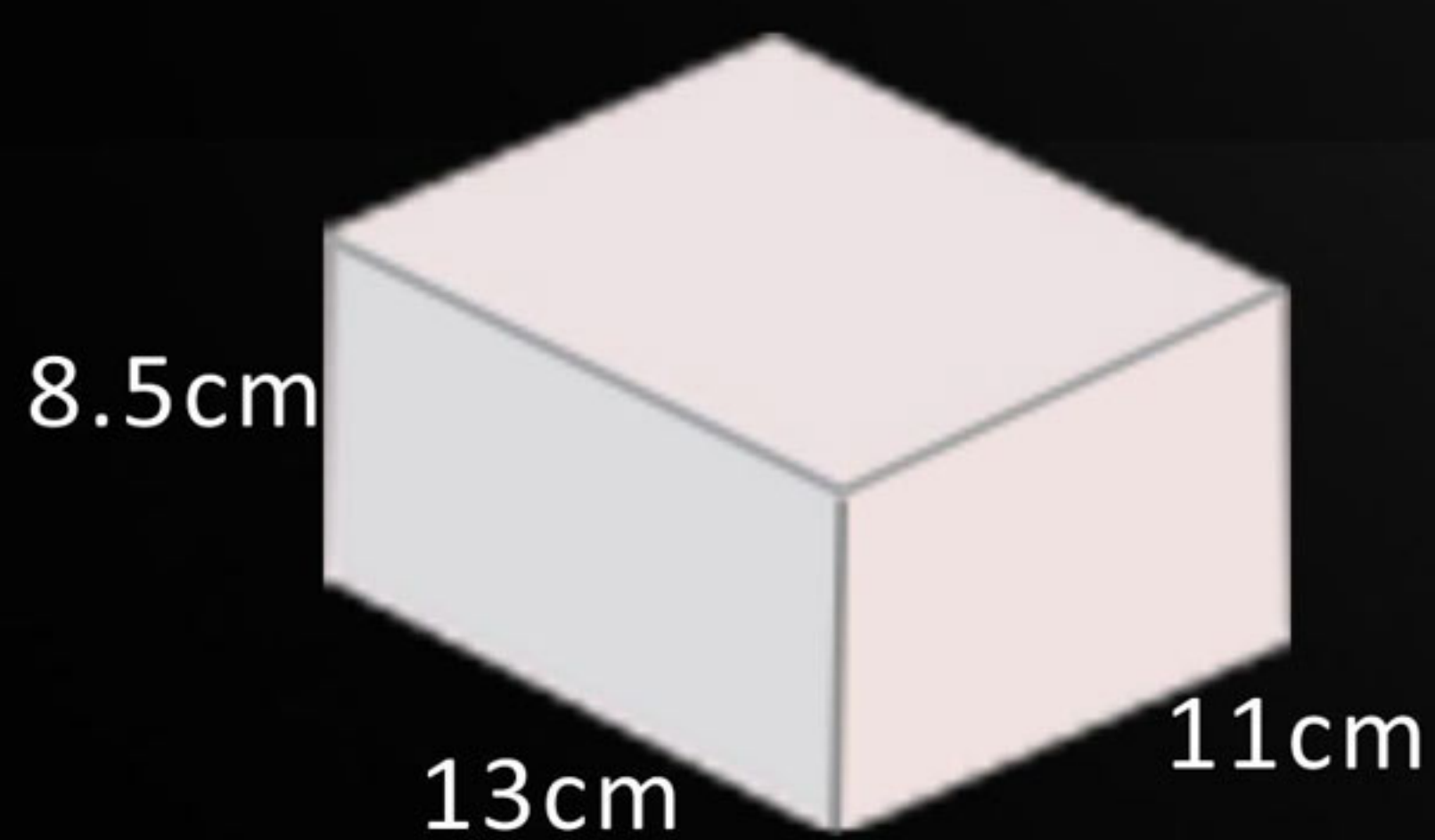


Packing:

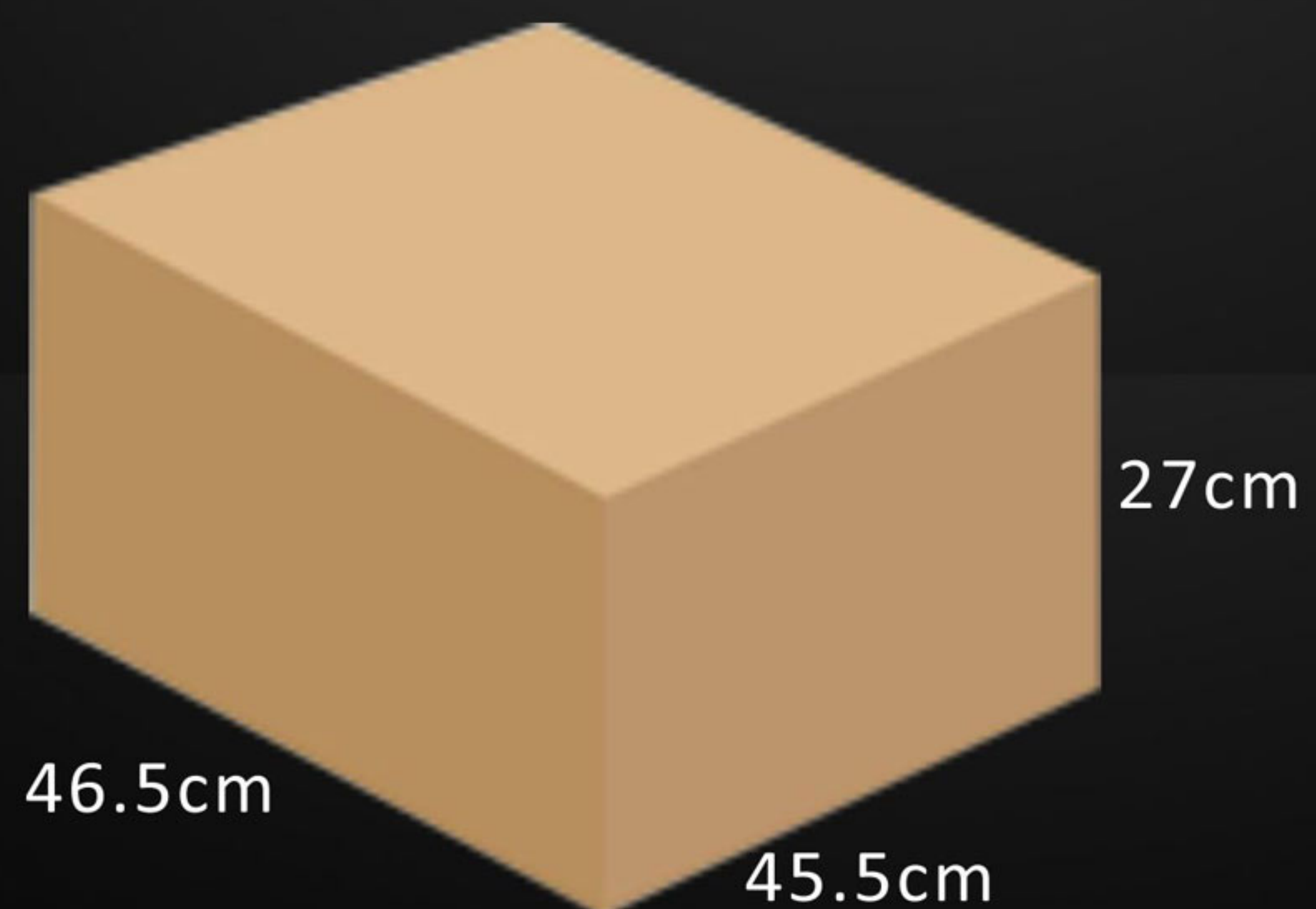
- 1.-Rear view camera x 1pc
- 2.-L type Allen wrench (3mm)



Packing box & carton dimension:



0.6kg/pc



40pcs per carton/Weight:24kg

ADD:3/F, Blcok A8, Kaida Industry Park, Qiaochang Road,Qiaotou , Dongguan , Guangdong,China.



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