

R33

Mini Backup Camera



- ✓ *Super wide angle (150°)*
- ✓ *IP69K Waterproof and weather resistant housing for outdoor use*
- ✓ *Compact size for more convenient installation*
- ✓ *CMOS sensor with CCD image*
- ✓ *Embedded type made especially for car rear view system*

Technical Specifications

Product series	Mini Backup Camera	
	R33-134C	R33-141C
Environment Rating	Outdoor	
Resolution	420 TV lines	420 TV lines
Sensor	1/3" Sharp Color CCD	1/4" Color CMOS V-MT9V011
TV System	PAL/NTSC	
Lens	f=2.8mm, 3.6mm, F=2.0	f=1.7mm
Effective pixels	PAL: 512(H)*582(V) / NTSC: 512(H)*492(V)	640(H)*480(V)
Sensing Area	4.9mm(H)*3.7mm(V)	3.58mm(H)*2.69mm(V)
Horizontal Sync. Frequency	15.625KHz/15.734KHz	
Vertical Sync. Frequency	50Hz/60Hz	
Minimum Illumination	0.2Lux (day)/F1.2	0.3 Lux (day)
Scanning System	2:1 Interlace	
Sync System	Internal	
S/N	More than 48dB	
Electronic Shutter	1/50(PAL)~1/10,000 sec, 1/60(NTSC)~10,000 sec	1/50(PAL)~1/15,000 sec, 1/60(NTSC)~15,000 sec
White Balance	Auto	
Auto Gain Control	Auto	
Back Light Compensation	Auto	
Gamma Correction	0.45	
Adjust Angle	150°	150°
Audio (Microphone)	No	
Video Output	1.0Vp-p composite / 75Ω	
IR	N/A	
IR Distance	N/A	
Power supply	DC 12V	
Current consumption	Max. 110mA	Max. 80mA
Working temperature	-20°C~70°C / -4°F~158°F	-10°C~60°C / 14°F~140°F
Storage temperature	-40°C~80°C / -40°F~176°F	-30°C~80°C / -22°F~176°F
Working Humidity	RH95% Max.	
Waterproof level	IP69K	
Weight	0.06kg / 0.1323lbs	
Size (DxWxH)	Φ23.31mm x 28.4mm / Φ0.918" x 1.118"	
Certifications	CE, E13, FCC	