

ViPRO 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	R33-145C
Environment Rating	Outdoor		
Resolution	420 TV lines	420 TV lines	420TV lines
Sensor	1/4" Sharp Color CCD	1/4" Color CMOS V-MT9V011	1/4" Color CMOS V-MT9V136
TV System	PAL/NTSC		
Lens	f=1.7mm, F=2.5	f=1.7mm	f=1.7mm, F=2.0
Effective pixels	PAL: 512(H)*582(V) / NTSC: 512(H)*492(V)	640(H)*480(V)	648(H)*488(V)
Sensing Area	3.6mm(H)*2.7mm(V)	3.58mm(H)*2.69mm(V)	3.584mm(H)*2.688mm(V)
Horizontal Sync. Frequency	15.625KHz/15.734KHz		
Vertical Sync. Frequency	50Hz/60Hz		
Minimum Illumination	0.2Lux (day)/F1.2	0.3 Lux (day)	0.3Lux (day)/F1.2
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	1/50(PAL)~1/100,000 sec, 1/60(NTSC)~100,000 sec
White Balance	Auto		
Auto Gain Control	Auto		
Back Light Compensation	Auto		
Gamma Correction	0.45		
Adjust Angle	150°	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	Max. 65mA
Working temperature	-20°C~70°C / -4°F~158°F	-10°C~60°C / 14°F~140°F	-20°C~60°C / -4°F~140°F
Storage temperature	-40°C~80°C / -40°F~176°F	-30°C~80°C / -22°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		