

MISUMI

ELECTRONICS CORP.

Products Catalogue



Tel: 886-2-2226-6303

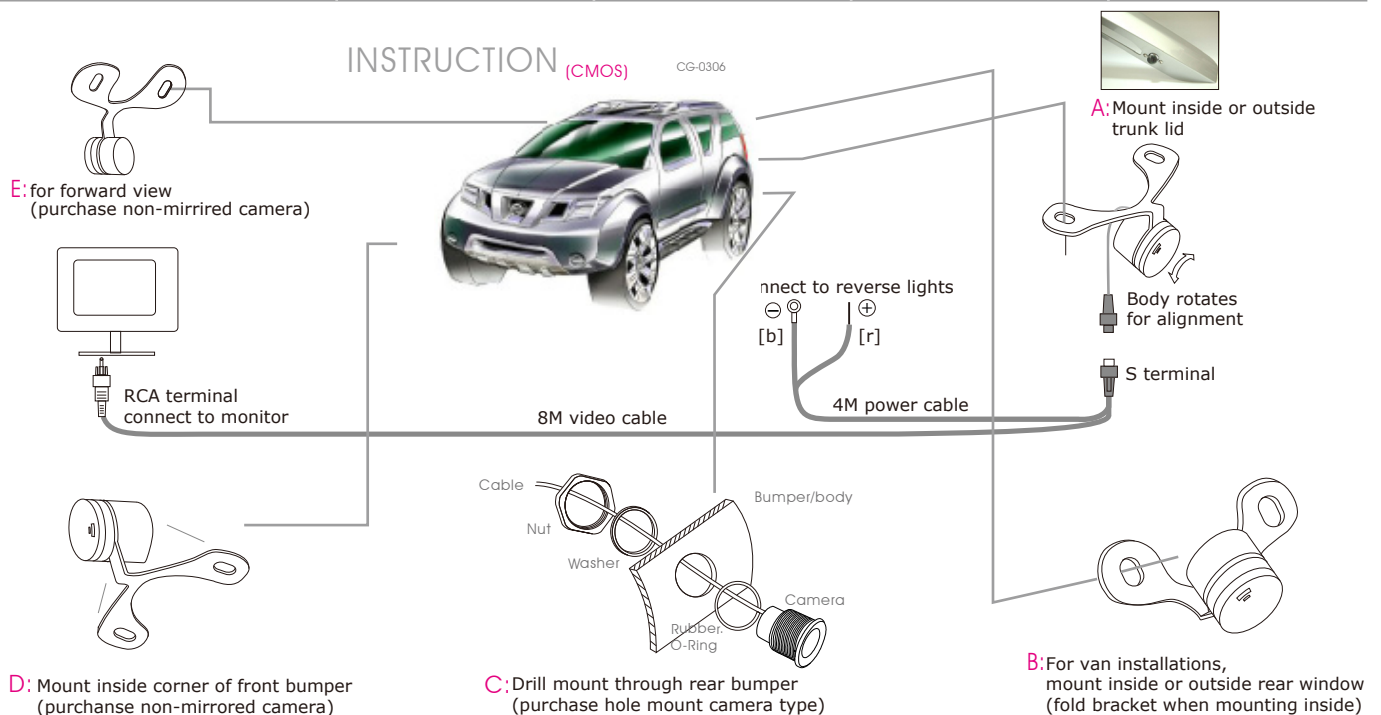
E-mail: mscctv@ms9.hinet.net

Home Page: <http://www.misumi.com.tw>

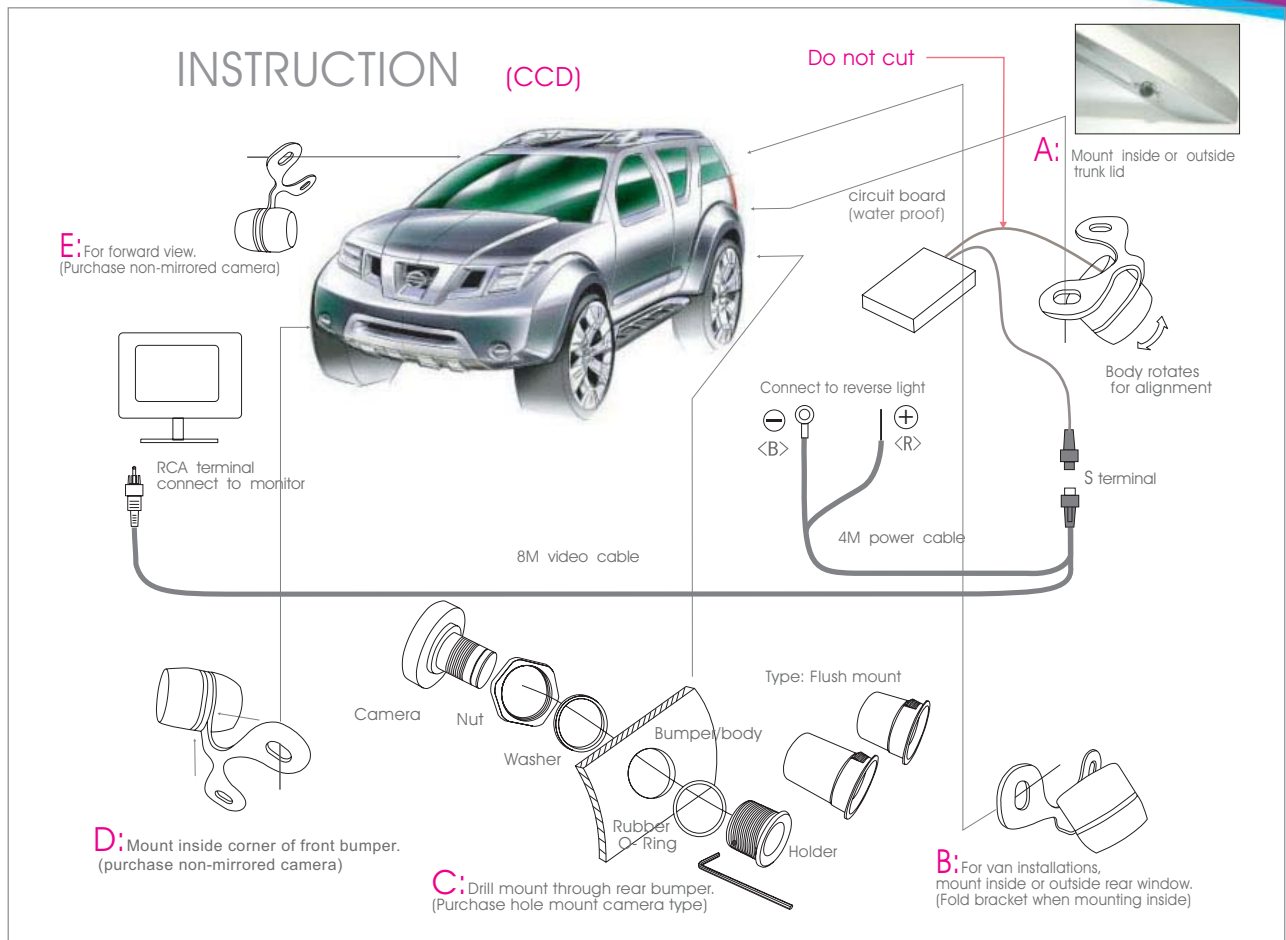
Address: 5F-3, NO. 70. Jiann-Liow Rd., Chung-Ho City, Taipei Shann, Taiwan, R.O.C.

Specification

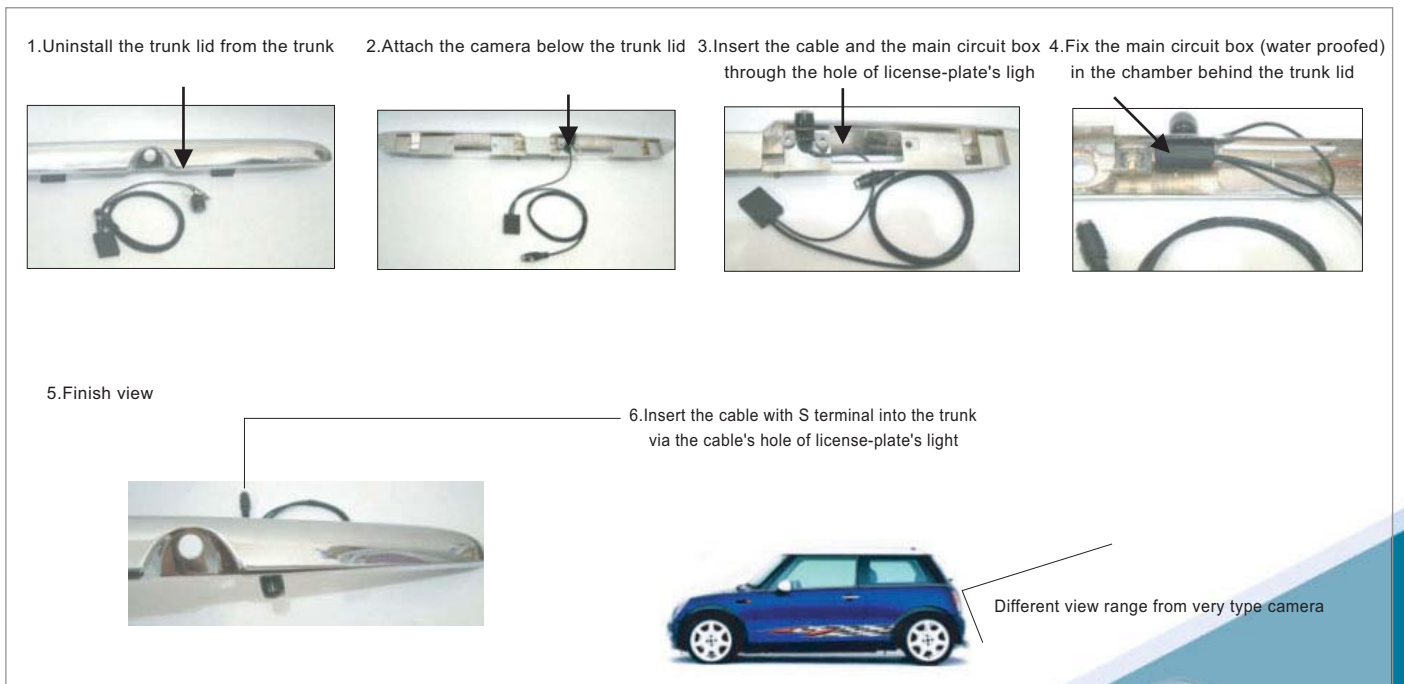
Model	MO-XC313	MO-AC713	MO-PC143	MO-AC554	MO-AC524
Video system	NTSC / PAL				
Number of effective pixels	250K(NTSC)/ 370k(PAL)		270K(NTSC)/320k(PAL)		
Image sensor	1/3" CCIQ Color Camera		1/4" CCIQColor Camera		
Resolution(TV Lines)	380TV Lines		400TV Lines		
S/N Ratio	more than 50dB				
Minimum illumination	0.5Lux		0.1Lux		
Horizontal sync frequency	NTSC(EIA) -15.734kHz , PAL(CCIR) - 15.625kHz				
Vertical sync frequency	NTSC(EIA) - 60Hz , PAL(CCIR) - 50Hz				
Camera consumption	0.45				
Video output	1Vp-p , 75ohm composite				
Storage temperature	-30 to 60 Degree C				
Working temperature	-10 to 45 Degree C				
Power source	DC 5~12 V		DC 5~12 V		
Power current	60 mA-max		80 mA-max		
Dimension (mm) (without bracket)	22 x 25(mm)	24 x 25 x 32(mm)	25 x 25 x 32(mm)	22 x 25(mm)	19 x 25(mm)







REARVIEW CCD CAMERA



How to install the camera below the trunk lid



Specification

 <p>Dimensions: 20mm(Diameter)x25/27(L)mm</p>	Item NO.	MS-EC54	MS-EC514	MS-EC524		
	CCD Image Sensor	1/4" Color CCD				
	Video system.	NTSC/PAL (Optional)				
	Minimum Illumination	0.5Lux	0.3Lux/F2.0			
	Resolution (TV Lines)	350 TV Lines				
	Electronic Shutter	1/50 - 1/100,000 Sec.	1/50 - 1/120,000 Sec.			
	Built-In Lens	3.6mm	2.1mm	1.9mm		
	Angle View	70	130	150		
	Power Source	DC 12V (Standard)				
	Power Current	40mA				
 <p>Dimensions: 20mm(Diameter)x25/27(L)mm</p>	Item NO.	MS-EC84	MS-EC814	MS-EC824		
	CCD Image Sensor	1/4" Color CCD				
	Video system.	NTSC/PAL (Optional)				
	Minimum Illumination	0.5Lux	0.3Lux/F2.0			
	Resolution (TV Lines)	350 TV Lines				
	Electronic Shutter	1/50 - 1/100,000 Sec.	1/50 - 1/120,000 Sec.			
	Built-In Lens	3.6mm	2.1mm	1.9mm		
	Angle View	70	130	150		
	Power Source	DC 12V (Standard)				
	Power Current	40mA				
 <p>Dimensions: 26mm(Diameter)</p>	Item NO.	MS-BC34	 <p>Dimensions: 26mm(Diameter)</p>	MS-BC314		
	CCD Image Sensor	1/4" Color CCD		1/4" Color CCD		
	Video system.	NTSC/PAL (Optional)		NTSC/PAL (Optional)		
	Minimum Illumination	1Lux/F2.8		1Lux/F2.8		
	Resolution (TV Lines)	350 TV Lines		350 TV Lines		
	Electronic Shutter	1/50 - 1/120,000 Sec.		1/50 - 1/120,000 Sec.		
	Built-In Lens	2.1mm		2.1mm		
	Angle View	130		130		
	Power Source	DC 12V (Standard)		DC 12V (Standard)		
	Power Current	40mA		40mA		
 <p>Dimensions: 26mm(Diameter)</p>	Item NO.	MS-BC24		MS-AC54		
	CCD Image Sensor	1/4" Color CCD		1/4" Color CCD		
	Video system.	NTSC/PAL (Optional)		NTSC/PAL (Optional)		
	Minimum Illumination	0.5Lux/F2.8		1Lux		
	Resolution (TV Lines)	350 TV Lines		350 TV Lines		
	Electronic Shutter	1/50 - 1/120,000 Sec.		1/50 - 1/120,000 Sec.		
	Built-In Lens	1.9mm		1.9mm		
	Angle View	150		130		
	Power Source	DC 12V (Standard)		DC 12V (Standard)		
	Power Current	40mA		40mA		
 <p>Dimensions: 19mm(Diameter)</p>	Item NO.	MS-DC54	ITEM NO.	PIXELS <small>NTSC PAL</small>	PIXELS <small>EIA CCIR</small>	MIRROR
	CCD Image Sensor	1/4" Color CCD	MS-xxxx-N	NTSC-250K	/	
	Video system.	NTSC/PAL (Optional)	MS-xxxx-P	PAL-290K	/	
	Minimum Illumination	0.5Lux/F2.8	MS-xxxx-C	/	EIA-250K	
	Resolution (TV Lines)	350 TV Lines	MS-xxxx-E	/	CCIR-290K	
	Electronic Shutter	1/50 - 1/120,000 Sec.	MS-xxxxR-N	NTSC-250K	/	●
	Built-In Lens	1.9mm	MS-xxxxR-P	PAL-290K	/	●
	Angle View	150	MS-xxxxR-C	/	EIA-250K	●
	Power Source	DC 12V (Standard)	MS-xxxxR-E	/	CCIR-290K	●
	Power Current	40mA				

Specification

CCD Rearview Camera

CCD REARVIEW CAMERA			
Item NO.	MS-AC14	MS-AC24	MS-AC44
Video system.	NTSC/PAL		
Number of Effective Pixels	PAL	500x582	
	NTSC	510x492	
CCD Image Sensor	1/4" Interline CCD		
Scanning System	2:1 INTERLACE		
Synchronization	INTERNAL		
Resolution (TV Lines)	350 TV LINES		
S/N Ratio	more than 48dB		
Minimum Illumination	0.5Lux / F 1.4		
Electronic Shutter	1/50 - 1/120,000		
Horizontal Sync Frequency	NTSC(EIA)-15.734kHz / PAL(CCIR)-15.625kHz		
Vertical Sync Frequency	NTSC(EIA)-60Hz / PAL(CCIR)-50Hz		
Gamma Consumption	0.45		
Video Output	1Vp-p , 75ohms Composite		
Audio Output	Frequency 20-16000Hz,S/N ratio more than 63dB SPL(at 1000Hz))(Ordering in advance)		
Audio Standard	Frequency 20-16000Hz,S/N ratio more than 58dB		
Built-In Lens	1.9mm/F2.0	3.6mm/F2.0	1.67mm/F2.0
Storage Temperature	-30 to 60 Degree C		
Working Temperature	-10 to 45 Degree C		
Power Source	DC 12V(standard)		
Power Current	150mA(max)		
Dimension (mm)	32x19x25	32x29x25	32x26x25



MS-AC14



MS-AC24



MS-AC44

Dimensions

Ordering Information

MS-AC14

Side view

Front view

MS-AC24

Side view

Front view

MS-AC44

Side view

Front view

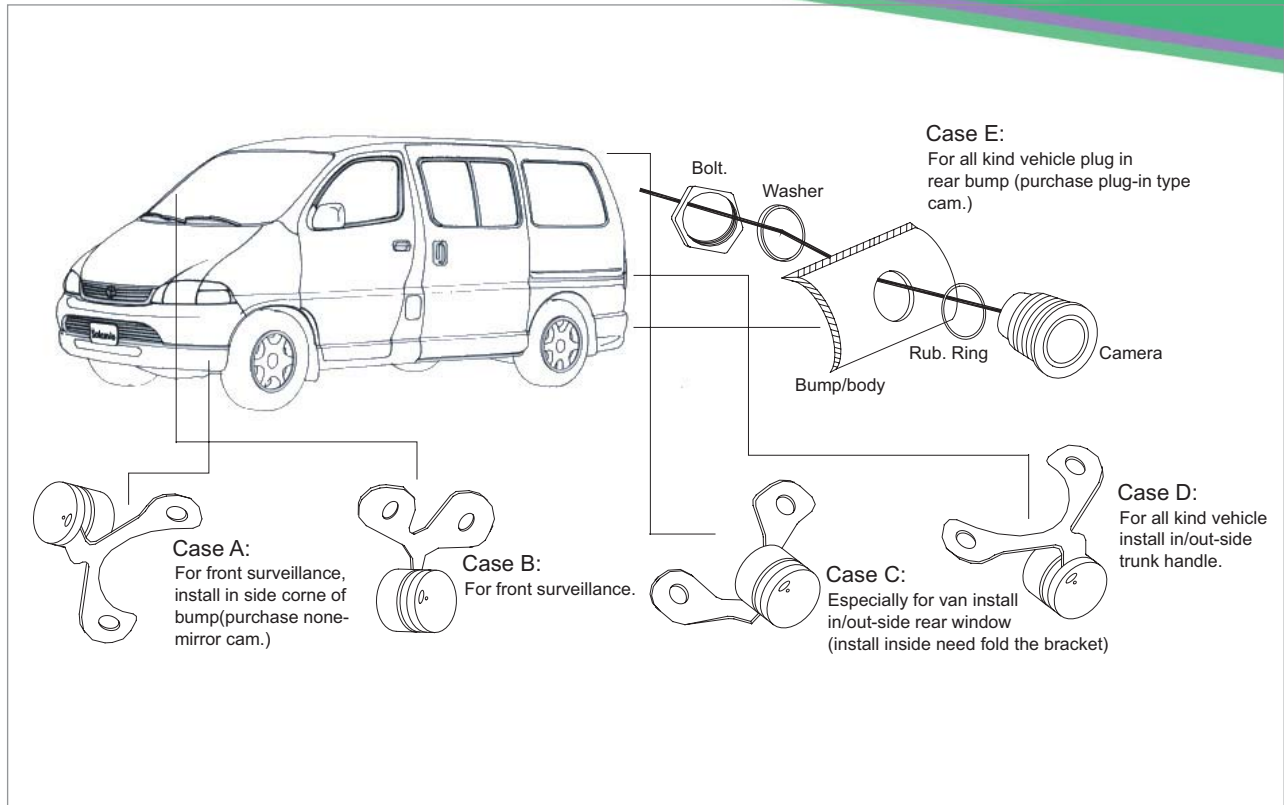
Unit:mm(Approx.)

MODEL	MIRROR	VIEW (Degrees)	NOTE
MS-AC14-N		130	NTSC - 250K
MS-AC14P		130	PAL - 290K
MS-AC14R-N	●	130	NTSC - 250K
MS-AC14R-P	●	130	PAL - 290K
MS-AC24-N		70	NTSC - 250K
MS-AC24P		70	PAL - 290K
MS-AC24R-N	●	70	NTSC - 250K
MS-AC24R-P	●	70	PAL - 290K
MS-AC44-N		150	NTSC - 250K
MS-AC44P		150	PAL - 290K
MS-AC44R-N	●	150	NTSC - 250K
MS-AC44R-P	●	150	PAL - 290K



Feature

- Water Proof (IP67) Color CCD Camera.
- Wide Angle Mirror image view for reverse back up system.
- Compact and lightwewght design.
- Optional : mirror

REARVIEW CMOS CAMERA



Specification

 Dimensions: 26mm(Diameter)x30mm(L)	Item NO.	MO-MC103	MO-MC103X
	CMOS Image Sensor	1/3" COLOR CMOS	
	Effective Pixels.	NTSC - 510x492 / PAL - 500x528	
	Minimum Illumination	1.5 Lux	1 Lux
	Resolution (TV Lines)	380 TV Lines	
	Electronic Shutter	1/50 ~ 1/15,000	1/50 ~ 1/125,000
	Built-In Lens	2.9mm / F2.0	
	Angle View	NTSC - 130 / PAL - 120	
	Power Source	DC 12 V	
	Power Current	40 mA	60 mA
 Dimensions: 26mm(Diameter)x30mm(L)	Item NO.	MO-MC113	MO-MC113X
	CMOS Image Sensor	1/3" COLOR CMOS	
	Effective Pixels.	NTSC - 510x492 / PAL - 500x528	
	Minimum Illumination	1.5 Lux	1 Lux
	Resolution (TV Lines)	380 TV Lines	
	Electronic Shutter	1/50 ~ 1/15,000	1/50 ~ 1/125,000
	Built-In Lens	2.9mm / F2.0	
	Angle View	NTSC - 130 / PAL - 120	
	Power Source	DC 12 V	
	Power Current	40 mA	60 mA

Specification

 <p>Dimensions: 22mm(Diameter)x28mm(L)</p>	Item NO.	MO-PC123	MO-PC123X
	CMOS Image Sensor	1/3" COLOR CMOS	
	Effective Pixels.	NTSC - 510x492 / PAL - 500x528	
	Minimum Illumination	1.5 Lux	1 Lux
	Resolution (TV Lines)	380 TV Lines	
	Electronic Shutter	1/50 ~ 1/15,000	1/50 ~ 1/125,000
	Built-In Lens	2.9mm / F2.0	
	Angle View	NTSC - 130 / PAL - 120	
	Power Source	DC 12 V	
	Power Current	40 mA	60 mA
 <p>Dimensions: 26mm(Diameter)x33mm(L)</p>	Item NO.	MO-MC13	MO-MC13X
	CMOS Image Sensor	1/3" COLOR CMOS	
	Effective Pixels.	NTSC - 510x492/PAL - 500x528	
	Minimum Illumination	1.5 Lux	1 Lux
	Resolution (TV Lines)	380 TV Lines	
	Electronic Shutter	1/50 ~ 1/15,000	1/50 ~ 1/125,000
	Built-In Lens	2.1mm / F2.0	
	Angle View	NTSC - 150 / PAL - 160	NTSC - 150 / PAL - 160
	Power Source	DC 12 V	
	Power Current	40 mA	60 mA
 <p>Dimensions: 19mm(Diameter)x27mm(L)</p>	Item NO.	MO-QC314	MO-QC324
	CMOS Image Sensor	1/4" COLOR CMOS	
	Effective Pixels.	NTSC - 510x492	
	Minimum Illumination	1.5 Lux	1.5 Lux
	Resolution (TV Lines)	380 TV Lines	
	Electronic Shutter	1/60 ~ 1/63,000	1/60 ~ 1/63,000
	Built-In Lens	1.9mm / F2.0	
	Angle View	145	
	Power Source	DC 12 V	
	Power Current	40 mA	40 mA
 <p>Dimensions: 32(W)x29(D)x25(H)(mm)</p>	Item NO.	MO-AC73	
	CMOS Image Sensor	1/3" COLOR CMOS	
	Effective Pixels.	NTSC - 510x492/PAL - 500x528	
	Minimum Illumination	1 Lux	
	Resolution (TV Lines)	380 TV Lines	
	Electronic Shutter	1/50 ~ 1/125,000	
	Built-In Lens	2.9mm / F2.0	
	Angle View	NTSC - 130 / PAL - 120	
	Power Source	DC 6-12 V	
	Power Current	60 mA	

Ordering Information

MODEL SAMPLE			
MODEL	Mirror	Electronic Shutter	Pixels
MO-PC123-P	/	1/50 ~ 1/15,000	PAL - 290K
MO-PC123-N	/	1/60 ~ 1/15,000	NTSC - 250K
MO-PC123X-P	/	1/50 ~ 1/125,000	PAL - 290K
MO-PC123X-N	/	1/60 ~ 1/125,000	NTSC - 250K
MO-PC123R-P	Mirror	1/50 ~ 1/15,000	PAL - 290K
MO-PC123R-N	Mirror	1/60 ~ 1/15,000	NTSC - 250K
MO-PC123XR-P	Mirror	1/50 ~ 1/125,000	PAL - 290K
MO-PC123XR-N	Mirror	1/60 ~ 1/125,000	NTSC - 250K

NOTE:
Purchase no.= Item no. + (R) + (-N/P)
(N/P) = NTSC/PAL ; (R)=Mirror image

Feature

Water Proof (IP67) Color CMOS Camera.
Wide Angle Mirror image view for reverse back up system.
Compact and lightweight design.
Optional : mirror