



CMOS CAMERA MODULES







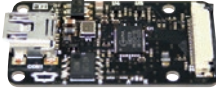
CMOS Camera Module

Nippon Chemi-con's CMOS Camera modules are the best as any image input and sensing applications in order to low power consumption, excellent color reproduction and small module profile by using our optical and signal processing technologies.

◆Application example

Automotive products, Event data recorder, Intercom, Surveillance, Code reader, Biometrics ID, Sensing device

◆Outline of product specification

Active Pixels	Part Number	Module Size	Lens		Optical Format	Feature
			Element	HFOV		
VGA (640H×480V)	NCM03-V NCM03-S NCM03-W2  (NCM03-V)	8.4×11.8×5(*1) 13×21×11.6(*1) 16×20×12.3(*1)	3Plastic 2Plastic 4Plastic	55° 105° 135°	1/4"	<ul style="list-style-type: none"> • Max 30fps • Mirroring • Auto Exposure • Auto White Balance • Flicker Control
VGA (640H×480V) NTSC Output	NCM03-ZB 	23×23×22(*2)	2Glass 3Plastic	135°	1/4"	<ul style="list-style-type: none"> • NTSC Output • Wide Dynamic Range(108db) • Mirroring • Auto Exposure • Auto White Balance • Flicker Control
WVGA (752H×480V)	NCM03-CB 	20×15×18(*1)	2Glass 3Plastic	86° *3	1/3"	<ul style="list-style-type: none"> • RAW data Output • Global Shutter • Max 60fps • Mirroring • Auto Exposure • Auto White Balance
WXGA(HD) (1280H×800V)	NCM10-B 	18×18×20.5(*1)	2Glass 3Plastic	110°	1/3"	<ul style="list-style-type: none"> • Max 30fps • Wide Dynamic Range(115db) • Mirroring • Auto Exposure • Auto White Balance • Flicker Control
SXGA (1280H×1024V)	NCM13-M NCM13-K NCM13-K2  (NCM13-M)	10.2×13.5×6.9(*1) 16×20×11.1(*1) 16×20×14(*1)	3Plastic 4Plastic 5Plastic	55° 135° 190°	1/4"	<ul style="list-style-type: none"> • Max 15fps • Mirroring • Auto Exposure • Auto White Balance • Flicker Control
VGA(640H×480V) USB Camera Module	NCM-USB-03D(55) NCM-USB-03D(105) 	15×40×6 15×40×12	3Plastic 2Plastic	55° 105°	1/4"	<ul style="list-style-type: none"> • USB2.0 • USB Video Class1.0 • Windows XP(SP2)~ Windows 10 • USB Bus Power(5.0±0.5V)
USB Output Interface Board	NCM-USB-C NCM-USB-E 	20×37×5	It supports each camera			

- *1 FPC part is not included
- *2 Cable part is not included
- *3 Setting of 640×480