

車載・産業機器用カメラモジュールラインナップ


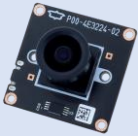


Camera Modules Lineup For automotive and industrial equipment

Part Number Active Pixels	Module Size[mm]	Features	
	FOV(H×V)		
NCM03-DV/DS VGA (640H×480V) Digital Output 	DV:11.8×8.4×4.3(※1) DS:21×13×10.5(※1)	<ul style="list-style-type: none"> ■ Digital output YUV422,RGB565,RGB444 ■ Automatic control Exposure,White Balance,Gain, flicker detection,Image mirroring 	<ul style="list-style-type: none"> ■ Frame rate 30fps (Max) ■ Operating temperature -20~+60°C ■ Storage temperature -30~+70°C
	DV:54°H×42°V DS:104°H×77°V		
NCM03-BCW VGA (640H×480V) Analog Output 	23×23×25.5 (※2)	<ul style="list-style-type: none"> ■ Analog NTSC Output ■ Low power consumption ■ Automatic control Exposure,White Balance,Gain flicker detection,Image mirroring 	<ul style="list-style-type: none"> ■ Waterproof IP67 ■ Operating temperature -30~+80°C ■ Storage temperature -40~+85°C
	139°H×112°V		
NCM10-B WXGA (1280H×800V) Digital Output 	18×18×17.4 (※1)	<ul style="list-style-type: none"> ■ Digital output YUV422 ■ Automatic control Exposure,White Balance,Gain, flicker detection,Image mirroring ■ High Dynamic Range 	<ul style="list-style-type: none"> ■ Frame rate 30fps (Max) ■ Operating temperature -30~+80°C ■ Storage temperature -40~+85°C
	110°H×77°V		
NCM12-FC * * HD (1280×960) Digital Output 	16×16×5~17.9(※1)	<ul style="list-style-type: none"> ■ Digital output Parallel (8-bit Multiplex) ■ Communication interface: I2C ■ High Dynamic Range ■ Automatic control Exposure, White Balance, Gain flicker detection,Image mirroring 	<ul style="list-style-type: none"> ■ Frame rate 30fps (Max) ■ Operating temperature -30~+80°C ■ Storage temperature -40~+85°C
	①FC55 :56°H×44°V ②FC80 :83°H×66°V ③FC120:127°H×104°V ④FC180:190°H×151°V		
NCM12-FE * * HD (1280×960) Digital Output 	21×31×21.9 (※2)	<ul style="list-style-type: none"> ■ (127F,180F) FAKRA Connector (127P,180P) Pigtail Cable ■ Digital output LVDS / YUV422 ■ High Dynamic Range ■ Automatic control Exposure,White,Balance,Gain flicker detection,Image mirroring 	<ul style="list-style-type: none"> ■ Waterproof IP69K ■ Frame Rate 30fps(Max) ■ Operating Temperature -30~+80°C ■ Storage Temperature -40~+85°C
	①127F/B:127°H×104°V ②180F/B:188°H×149°V		
NCM12-E HD (1280×960) Digital Output Monochrome 	18.6×27×17.9(※1)	<ul style="list-style-type: none"> ■ Global Shutter ■ Digital output 12bit Parallel ■ Automatic control Exposure, Image mirroring 	<ul style="list-style-type: none"> ■ Frame rate 54fps(960p)60fps(720p) ■ Operating temperature -20~+60°C ■ Storage temperature -30~+70°C
	101°H×81°V		
NCM20-WA Under Development FHD (1920H×1080V) Analog Output 	28.8×28.8×36.7(※2)	<ul style="list-style-type: none"> ■ Analog output HD-TVI (YCbCr422) ■ Dynamic Range 100dB ■ Automatic control Exposure, White Balance 	<ul style="list-style-type: none"> ■ Frame Rate Max 30fps ■ Operating Temperature -30~+70°C ■ Storage Temperature -40~+85°C
	169°H(Typ.)		
NCM25-AA FHD (1920×1280) Digital Output 	32×32×17(※1)	<ul style="list-style-type: none"> ■ Digital output MIPI CSI-2 (4Lane) /YUV422 ■ Dynamic Range 120dB ■ Automatic control Exposure, White Balance, Gain, flicker detection,Image mirroring 	<ul style="list-style-type: none"> ■ Frame Rate Max 30fps ■ Operating Temperature -30~+80°C ■ Storage Temperature -40~+85°C
	123°H×80°V		

※1 FPC part is not included
 ※2 Cable part is not included
 ※3 Substrate dimensions

USB I/Fラインナップ

USB CMOS Camera Modules Lineup

Part Number Active Pixels	Module Size[mm]	Features	
	FOV(H×V)		
NCM-USB-E03DV/DS VGA (640H×480V) Digital Output USB 	DV:15×40×5(※3) DS:15×40×11(※3)	<ul style="list-style-type: none"> ■ I/F USB2.0(Micro-B) ■ USB Video Class1.1 ■ Automatic control Exposure, White Balance, Gain, flicker detection, Image mirroring 	<ul style="list-style-type: none"> ■ Frame rate 30fps (Max) ■ OS Windows7,8,10 (It is not compatible with Linux or embedded OS.)
	DV:54°H×42°V DS:104°H×77°V		
NCM-USB-10B HD (1280H×720V) Digital Output USB 	32×32×17.4(※3)	<ul style="list-style-type: none"> ■ I/F USB2.0(Micro-B) ■ USB Video Class1.1 ■ High Dynamic Range ■ Automatic control Exposure, White Balance, Gain, flicker detection, Image mirroring 	<ul style="list-style-type: none"> ■ Frame rate 30fps (Max) ■ OS Windows7,8,10 (It is not compatible with Linux or embedded OS.)
	110°H×70°V		
NCM-USB-E*** USB I/F Board It Supports Each Camera Module 	22pin:36×20×3.5(※3) 28pin:36×24×3.5(※3) 	<ul style="list-style-type: none"> ■ I/F USB2.0(Micro-B) ■ USB Video Class1.1 	<ul style="list-style-type: none"> ■ OS Windows7,8,10 (It is not compatible with Linux or embedded OS.)

※1 FPC part is not included
 ※2 Cable part is not included
 ※3 Substrate dimensions

<Contact information>

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