



Idea For Your Business



Shenzhen Novel Electronics Limited

諾維安電子有限公司です  
ビデオソリューションメーカーです



Shenzhen Novel Electronics Limited started since 2011(our Hongkong company name: Novel Manufacture Limited found in 2007), is a professional image version provider that sale custom-made personalized camera module and various camera in Shenzhen, China, our main products as following:

- 1, USB/MIPI/DVP/AHD Camera Module with lens m12/m7/m5/M16
- 2, Medical endoscopy camera module
- 3, Vehicle Security Camera Systems for Commercial vehicle and HGV TAXI Our camera module and various camera are widely used for industrial security, machine vision, Medical endoscopy camera, family image care and commercial/construction vehicles etc.



デモルームです



自動化ワークショップ



自動化ワークショップ



半自動化です



テストルームです

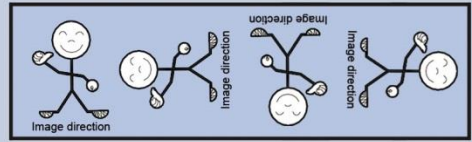


テストルームです

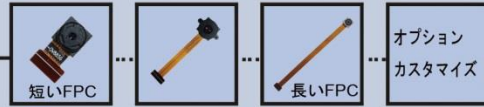
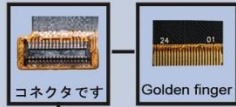


# カスタマイズ可能な項目は何ですか What we can customized ?

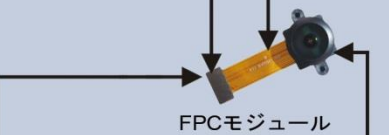
画像化方向です



コネクタです  
カメラ・モジュール:  
PS/MOLEX/KYOCERA  
HRS/JAE/YXT...

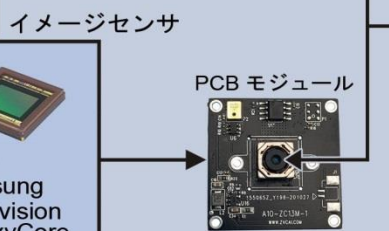


オプション  
カスタマイズ



オプション  
カスタマイズ

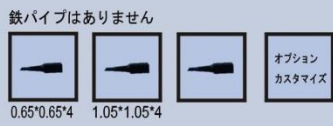
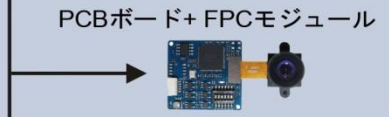
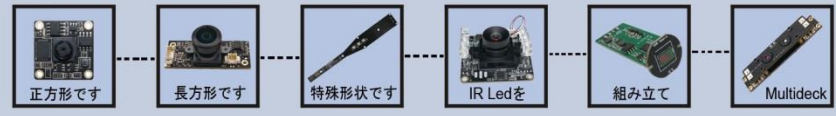
Sony  
Samsung  
OmniVision  
GalaxyCore  
Hynix  
Aptina  
Himax  
ST  
SuperPix Micro  
SC smartsens



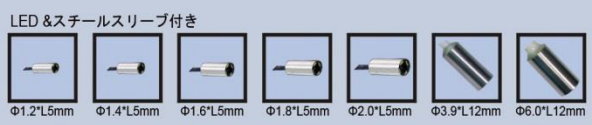
オプション  
カスタマイズ



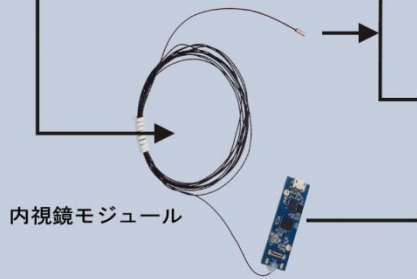
オプション  
カスタマイズ



オプション  
カスタマイズ



オプション  
カスタマイズ



オプション  
カスタマイズ

## 殻を作る必要があればです Shell custom processing



金属製のケースです



プラスチックのカバー

VGA / MP / 2MP / 5MP / 8MP / 13MP  
CVBS / AHD / USB



Hundreds of alternative lenses are available 数百種類のレンズが用意されています



Custom design cables are available カスタム設計のケーブルが利用可能です



Interfaces are optional インターフェースは任意である





## Square series



Camera size: 25\*25mm with holder  
(other size can be done)



## Round tube series



Camera size:  $\Phi$ 20mm  
(other size can be done)

Observation fire  
Tubular with long focal length



Install with pipe clamp

## Bullet series



Camera size:  $\Phi$ 19mm  
MP / 2MP / 5MP / 8MP

Mini CCTV



## Cat's eye camera

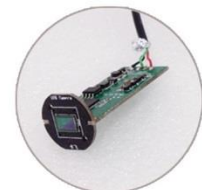
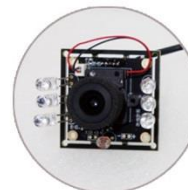
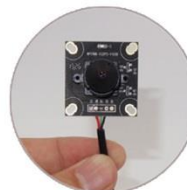
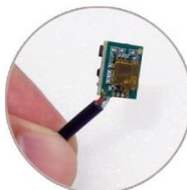
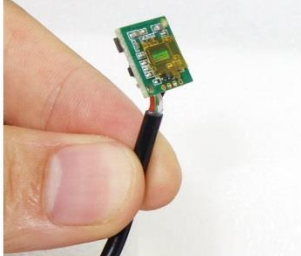


Security door



Pipeline robot

## Custom-made



6\*6mm, 10\*10mm, 12\*12mm,

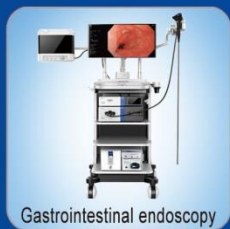
20\*20mm, 28\*28mm, 38\*38mm

PCB+IR LED

For round shells

Support custom designed PCB shape and size, camera housing and wire





Gastrointestinal endoscopy  
胃腸内視鏡



Bronchoscope  
気管支鏡の



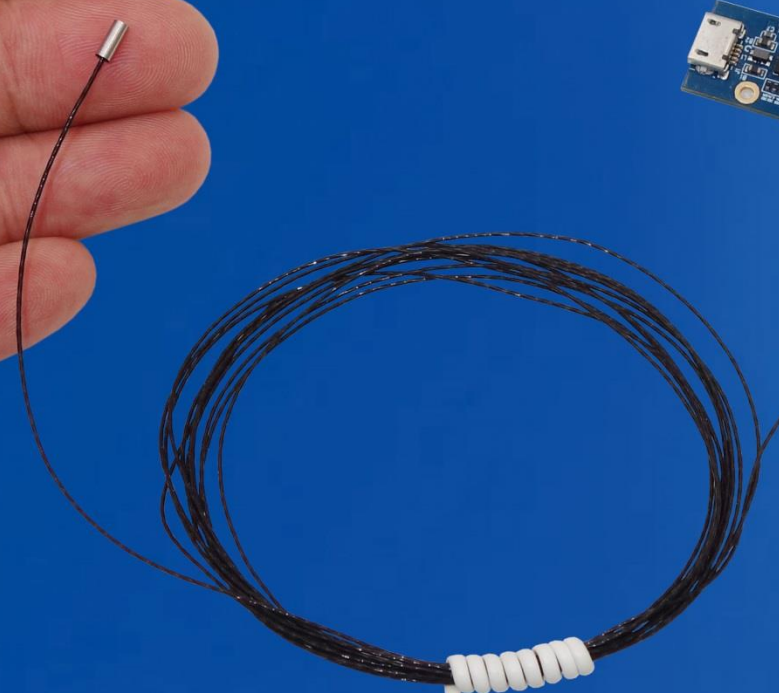
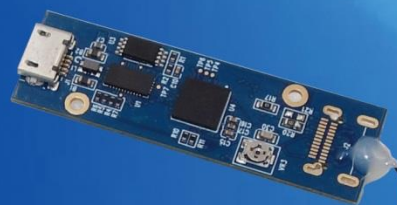
ENT endoscope  
耳鼻咽喉科内視鏡



Urinary endoscope  
泌尿器内視鏡



One-shot hysteroscope  
使い捨て子宮鏡です



Visual surgery



Endocardioscope



Gastrointestinal endoscope



Ent endoscope



Industrial inspection




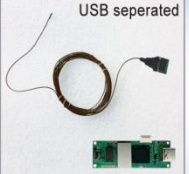
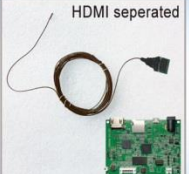


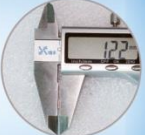
Pipeline inspection

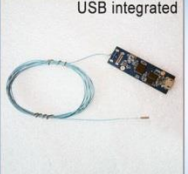
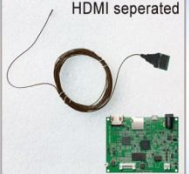


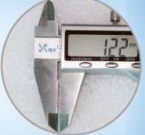


Maintenance inspection



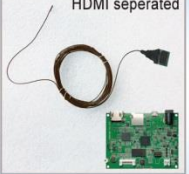


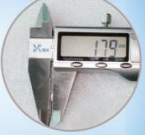




<b>USB integrated</b> 	<b>USB seperated</b> 	<b>HDMI seperated</b> 	<b>OVM6948 Sensor series</b> Resolution: 200x200 Angle of View: D120° Depth of filed: 3~50mm Cable length: 5cm~5m Front size: 0.64*0.64*L4mm Φ1.2*L5mm with LED & steel tube Φ1.4*L5mm with LED & steel tube	 0.64*0.64mm  Φ1.2*L5mm 
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<b>USB integrated</b> 	<b>USB seperated</b> 	<b>HDMI seperated</b> 	<b>OCHTA10 Sensor series</b> Resolution: 400x400 Angle of View: D127° Depth of filed: 5~30mm Cable length: 5cm~2.5m Front size: 0.65*0.65*L4mm Φ1.2*L5mm with LED & steel tube	 0.64*0.64mm  Φ1.2*L5mm 
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<b>USB integrated</b> 	<b>USB seperated</b> 	<b>HDMI seperated</b> 	<b>OVM6946 Sensor series</b> Resolution: 400x400 Angle of View: D120° Depth of filed: 5~50mm Cable length: 5cm~5m Front size: 1.05*1.05*L4mm Φ1.8*L5mm with LED & steel tube Φ2.0*L5mm with LED & steel tube	 1.05*1.05mm  Φ1.8*L5mm 
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<b>USB integrated</b> 	<b>USB seperated</b> 	<b>HDMI seperated</b> 	<b>OCHFA10 Sensor series</b> Resolution: 700x700 Angle of View: D105° Depth of filed: 5~50mm Cable length: 5cm~2.5m Front size: 1.05*1.05*L5mm Φ1.8*L5mm with LED & steel tube Φ2.0*L5mm with LED & steel tube	 1.05*1.05mm  Φ1.8*L5mm 
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<b>USB Hot-swappable</b> 	<b>USB seperated</b> 	<b>HDMI seperated</b> 	<b>OV9734 Sensor series</b> Resolution: 1280x720 Angle of View: D75~140° Depth of filed: 10~100mm Cable length: 5cm~5m Front size: Φ3.8*L8mm with LED & steel tube Φ3.9*L12mm with LED & steel tube	
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<b>USB integrated</b> 	<b>USB seperated</b> 	<b>HDMI seperated</b> 	<b>OV2740 Sensor series</b> Resolution: 1920x1080 Angle of View: D90~175° Depth of filed: 10~100mm Cable length: 5cm~3m Front size: Φ6.0*L12mm with LED & steel tube	
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内視鏡カメラを設計するプロセスです The process of designing an endoscopic camera

<b>Choose the sensor &amp; lens</b> Design the head  without LED with steel tube    with LED with steel tube with LED without steel tube    Head design	<b>Design the cable</b>  The inner date cable Sleeve to protect the line	<b>Output signal format</b>  USB output USB, Type-C, Micro USB  HDMI output Store to TF card HD video output to the display	<b>Design the handle or keyboard</b>  	<b>Design the displayer</b> 
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歯科用カメラモジュール  
HD dental camera module

MP HD  
LED compensation  
USB



5MP HD  
30X,50X,200X,800X  
USB



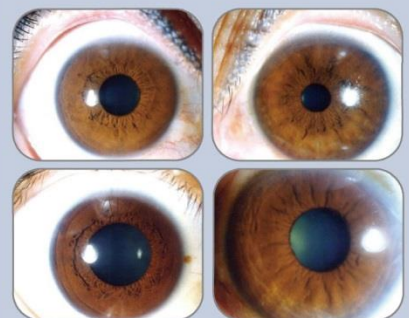
皮膚・毛皮検知カメラ  
HD skin and hair camera



5MP HD  
30X,50X,200X,800X  
USB



アイリス検出カメラ  
HD iris detection camera





## POSマシン用カメラモジュール



IMX298



IMX351



S5K3P3



OV13850

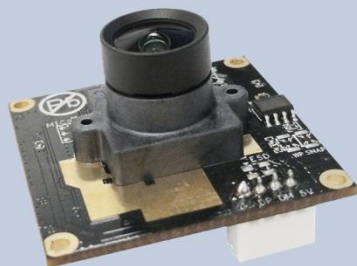


Sensor: IMX298

- 1/2.8" 16MP
- Pixel size 1.0 um x 1.0 um BSI
- Active image size 4640 x 3488
- Max. FPS : 30fps @16Mp
- Auto focus
- MIPI interface
- PDAF

Camera modules for POS machine

## 新しい電子スケールのカメラモジュール



Sensor: AR0234

- 1/2.6" 2.3MP
- Resolution: 1920\*1200
- Max. FPS : 90fps : 1080P
- Wide angle while low distortion
- USB interface
- Rapid response
- Global Shutter

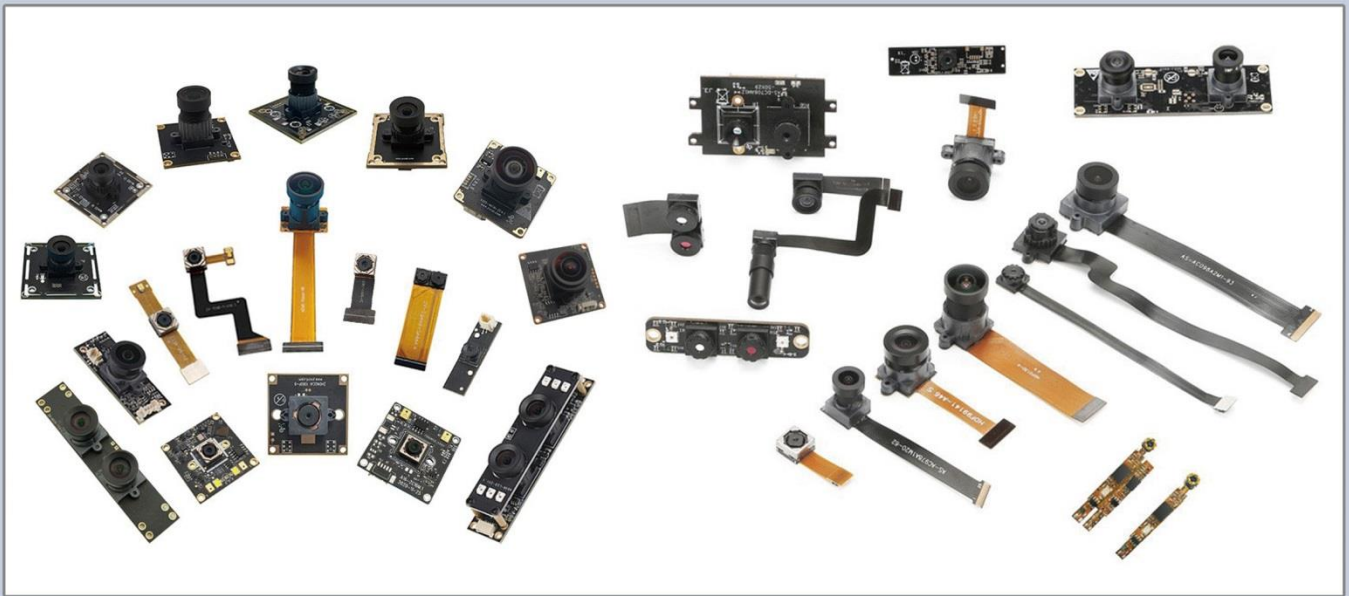
Camera modules for Fresh electronic scale

## ミニ赤外線熱画像モジュール



- CMOS
- 256x192@12mm
- Uncooled infrared thermal imaging
- 25Hz
- Mini body 21\*21mm
- USB interface
- Temperature measurement in two levels

Mini infrared thermal imaging module



## カメラモジュール用センサ

## Sensors for camera modules

- 48MP : IMX586
- 20MP : IMX476
- 16MP : IMX298, IMX351, S5K3P3
- 13MP : IMX214, IMX258, IMX458, S5K3P8, OV13855
- 8MP : IMX179, IMX219, IMX334, IMX415, OV8865, OS08A20, HI-843B
- 5MP : IMX335, OV5640, OV5645, OV5647, OV5648, OV5670, OV5695,
- 5MP : OS05A10, OS05A20, HM5065, AR0521
- 4MP : OV4689,
- 3MP : AR0330, AR0331,
- 2MP : IMX291, IMX323, GC02M2, GC2053, GC2145, PS5268, OV2640,
- 2MP : OV2710, OV2732, OV2735, OV2740, OG02B10, AR0237
- 1MP : OV9281, OV9732, OV9734
- VGA : OV7251, SC035GS, OV7740





OV2744, 2MP



OV9734

### 狭い幅のカメラモジュール Ultra-narrow border camera module

Sensor: OV9734  
Pixel: MP  
Resolution: 1280\*720  
Focusing: Fixed  
Interface: USB  
Feature: Ultra-narrow width 3.7mm



IMX415



OV2710+OV2710 Dual lens

### 顔認識カメラモジュール Face recognition camera module

Sensor: IMX415  
Pixel: 8.46MP  
Resolution: 3840\*2160  
Focusing: Fixed  
Interface: USB  
Feature: Low distortion, HD, live detection



GC2145



OV9281, MP

### コードスキャンカメラモジュール Code scanning camera module

Sensor: GC2145  
Pixel: 2MP  
Resolution: 1600\*1200  
Focusing: Fixed  
Interface: DVP  
Feature: Low distortion, HD  
Fast reaction speed



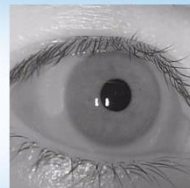
MP + 850nm IR



IMX258 Dual lens

### 虹彩認識カメラモジュール Iris recognition camera module

Sensor: IMX258  
Pixel: 13MP  
Resolution: 4224 × 3192  
Focusing: Fixed  
Interface: MIPI  
Feature: IR, Low distortion, HD



SC530AI



MP 1/4

### ロボット掃除機カメラモジュール Robot vacuum cleaner camera module

Sensor: SC530AI  
Pixel: 5MP  
Resolution: 2884 × 1628  
Focusing: Fixed  
Interface: DVP  
Feature: Low distortion, HD



IMX291, 2MP



IMX678, 8MP

### ナイトビジョンカメラモジュール Starlight night vision camera module

Sensor: IMX291  
Pixel: 2MP  
Resolution: 1920 × 1080  
Focusing: Fixed  
Interface: USB  
Feature: F.No. F1.0, 0.001Lux, HD  
Starlight vision colorful



Frontview or rearview vehicle camera



2MP, HD 1920\*1080P, IP69K waterproof, 120° wide angle view, Aluminum alloy case

We can offer and provide Customization Solutions for your vehicle safety,

- 1, IP69K AHD 720P/1080P backup Camera and 4.5/5/7/8/9/10.1 inch vehicle Monitors with 1/2/3/4channels For Trucks, Bus and Construction Vehicle.
- 2, 360 degree Surround view /bird View Vehicle CCTV Camera System.
- 3, Complete Vehicle CCTV System with 24/77G Millimeter Radar sensor.



IP69K waterproof Vehicle monitor

Dustproof, whetherproof, shockproof  
 7inch IPS Display DC 12-36V  
 2ch/3ch/4ch available, 4Pin Aviation  
 Application: Heavy equipment, Farm tractor,  
 marine, construction vehicle, mining vehicle,  
 industrial visual application



Semi Truck Camera System

7inch HD display, 4\*AHD1080P cam  
 5/10/10/15meter cable 4Pin Aviation  
 Application: Bus/pickups/Caravan/truck



4CH 4G GPS AI MDVR with 360 bird view

4CH 4G GPS HDD MDVR with AI algorithm  
 ADAS+BSD+DMS  
 360° panorama image/video 2D/3D  
 Work with ultrasonic radar sensor available



## AI BSD Camera AHD720P



Built-in voice speaker,  
AI Algorithm, DiDiDi sound  
HFOV 105°, 12V, IP68

## 4K BSD dashcam with carplay



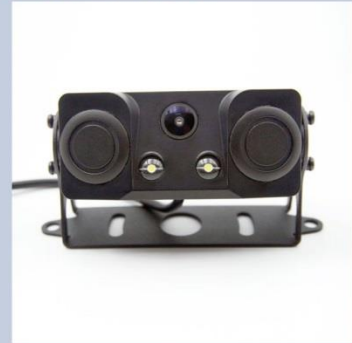
5inch IPS, Front 4K+rear 1080P  
DV12-30V, support 256GB  
Wireless carplay + AI BSD

## Auto-Shutter Auto heating cam



AHD1080P, IP68  
Auto-Shutter when reversing  
Auto-heating when temp is low  
Application: Mining, Construction vehicle

## Camera with 2 Radar



AHD1080P, 120°, IP68, DV12-30V,  
Sensor X,Y,60°C  
Sensor detect: 0.3m-2.5m  
Application: Truck, Autobus, HGV, Campervan

## Solar battery magnet Wireless Cam System



5" or 7" wireless monitor (wifi phone ok)  
9600mAh built-in battery, solar panel recharge  
Magnet Base, 100% DIY Installation  
Application: motorhome, truck, RV, construction vehicle

## Wireless Cam for Crane



AF 30X optical zoom, 10.1" monitor  
IP67 temperature -22° F to +149° F  
Application: Excavator, Tower Crane, Marine,  
Lifting Height Truck, Jib Bridge Mobile Tower

私たちは千から選択するレンズを持っており、また、カスタムレンズを受け入れます。

We have a thousand lenses to choose from and also accept custom lenses.



## Fisheye lens

## 広角レンズ



Mount	EFL	TTL	F. No.	Sensor	FOV (D)	Holder
M2. 1*0.15	0.9mm	3.05mm	F6.0	1/9"	140°	2.7*3mm
M4. 5*0.25	1.1mm	3.90mm	F2.2	1/5"	125°	6.5*6.5mm
M4. 5*0.25	1.3mm	3.90mm	F2.2	1/5"	120°	6.5*6.5mm
M5*0.25	0.78mm	3.80mm	F2.2	1/7.5"	129°	6.5*6mm
M5. 5*0.2	0.9mm	4.33mm	F2.4	1/6"	137°	6.5*6.5mm
M5. 5*0.25	1.0mm	4.42mm	F2.8	1/4"	120°	8*8mm
M5. 7*0.25	1.0mm	4.40mm	F2.8	1/4"	125°	8*8mm
M6*0.2	1.5mm	4.80mm	F2.6	1/4"	108°	8*8mm
M7*0.35	0.9mm	10.51mm	F2.0	1/5"	150°	8*8mm
M7*0.35	1.08mm	12.01mm	F2.2	1/3"	206°	PD 18mm
M8*0.35	0.81mm	12.1mm	F1.1	1/5"	140°	PD 18mm
M8*0.5	0.95mm	9.30mm	F2.0	1/4"	160°	12*12mm
M8*0.5	1.5mm	14.5mm	F2.0	1/3"	200°	10*10mm
M12*0.5	1.08mm	12.1mm	F2.2	1/3"	206°	/
M12*0.5	1.0mm	14.55mm	F2.0	1/2.5"	220°	/
M12*0.5	1.56mm	20.70mm	F2.2	1/2.5"	185°	/

## Telephoto lens

## 望遠レンズ



Mount	EFL	TTL	F. No.	Sensor	FOV (D)	Holder
M7*0.35	30mm	29.8mm	F6.0	1/3"	12.5°	8*8mm
M7*0.35	21mm	28.7mm	F6.0	1/3"	16.5°	8*8mm
M8*0.35	21mm	28.7mm	F6.0	1/3"	16.5°	9*9mm
M9*0.5	16mm	16.0mm	F4.8	1/2.7"	21.8°	PD 18mm
M12*0.5	400mm	125mm	F2.0	1/3"	0.8°	/
M12*0.5	300mm	115mm	F2.0	1/3"	1°	/
M12*0.5	70mm	95mm	F3.0	1/3"	4°	/
M12*0.5	50mm	56.9mm	F2.0	1/2"	9.2°	/
M12*0.5	45mm	70mm	F3.0	1/3"	8°	/
M12*0.5	42mm	45mm	F2.0	1/3"	9°	/
M12*0.5	35mm	39.3mm	F2.0	1/3"	9.8°	/
M12*0.5	30mm	38.1mm	F3.0	1/3"	11°	/
M12*0.5	25mm	26.1mm	F2.0	1/2"	19°	/
M12*0.5	22mm	25mm	F2.5	1/3"	19°	/
M12*0.5	20mm	25mm	F3.0	1/3"	18°	/
M12*0.5	16mm	26mm	F2.0	1/2.5"	29°	/



# 特別レンズ

# Special Lenses

## Dark light night vision lens 星明かり暗視レンズです



Mount	EFL	TTL	F. No.	Sensor	FOV (D)	Holder
M16*0.5	4mm	31.96mm	F0.95	1/2.7"	110°	/
M16*0.5	5mm	47mm	F1.2	1/1.8"	114°	/
M16*0.5	6mm	32mm	F0.98	1/2.7"	64°	/
M16*0.5	8mm	47mm	F1.05	1/1.8"	67°	/
M12*0.5	3.4mm	22mm	F1.1	1/2.7"	132°	/
M12*0.5	4mm	22.3mm	F1.4	1/2.7"	110°	/
M12*0.5	4mm	22.3mm	F1.4	1/3"	95°	/
M12*0.5	4mm	22.2mm	F1.0	1/2.7"	104°	/
M12*0.5	6mm	22.24mm	F1.4	1/2.7"	66°	/
M12*0.5	6mm	22.2mm	F1.0	1/2.7"	66°	/
M12*0.5	8mm	22.24mm	F1.4	1/2.7"	48°	/
M12*0.5	8mm	36.8mm	F1.4	1/2.5"	50°	/
M12*0.5	12mm	33mm	F1.4	1/2.5"	39°	/
M8*0.35	0.81mm	12.1mm	F1.1	1/5"	140°	PD 18mm
M8*0.35	2.1mm	14.5mm	F1.8	1/3"	130°	10*10mm
M7*0.35	2.1mm	11.1mm	F1.8	1/3"	130°	8*8mm

## Mini lenses

## ミニレンズ



Mount	EFL	TTL	F. No.	Sensor	FOV (D)	Holder
M6.5*0.25	2.8mm	4.50mm	F2.2	1/3.2"	90°	8*8mm
M6*0.25	2.69mm	3.40mm	F2.2	1/4"	79.5°	6.5*6.5mm
M6*0.35	2.94mm	3.88mm	F2.0	1/4"	75°	8*8mm
M6*0.35	3.29mm	3.90mm	F2.8	1/4"	68°	8*8mm
M5.5*0.25	1.8mm	5.20mm	F2.4	1/4"	120°	8*8mm
M5.5*0.25	2.1mm	3.40mm	F2.4	1/4"	91.5°	8*8mm
M5.5*0.25	2.38mm	3.20mm	F2.2	1/5"	73.5°	6.5*6.5mm
M5.5*0.35	2.8mm	4.75mm	F2.4	1/5"	63°	6.5*6.5mm
M5.5*0.35	3.13mm	3.6mm	F5.6	1/4"	71°	6.5*6.5mm
M5*0.25	1.99mm	2.96mm	F2.4	1/5"	84°	6.5*6.5mm
M5*0.35	2.45mm	3.25mm	F2.2	1/5"	72°	8*8mm
M5*0.35	2.7mm	3.50mm	F2.8	1/6"	58°	6*6mm
M5*0.35	2.9mm	3.20mm	F2.8	1/5"	61.2°	6.5*6.5mm
M4.5*0.3	2.9mm	3.00mm	F2.8	1/6"	70°	5*5mm
M4*0.2	1.69mm	2.80mm	F2.4	1/6.5"	79°	5*5mm
M2.6*0.25	1.1mm	3.30mm	F4.0	1/9"	110°	3*3mm

## Special Lens

## 特別レンズ



Mount	EFL	TTL	F. No.	Sensor	FOV (D)	Holder
M4*0.35	6mm	9.65mm	F4.5	1/4"	47°	6*6mm
M5*0.2	6mm	6mm	F5.6	1/4"	45°	6.5*6.5mm
M5*0.35	8mm	7.9mm	F5.2	1/4"	32°	8*8mm
M6*0.35	10mm	12.4mm	F5.5	1/2.7"	35°	11*7.3mm
M6*0.35	12.65mm	16.05mm	F4.2	1/2.7"	27.7°	11*7.4mm
M6.5*0.25	6mm	5.6mm	F2.2	1/4"	39°	8*8mm
M6.5*0.35	8.9mm	11.54mm	F5.0	1/1.8"	49°	10.5*10.5mm
M6.5*0.35	11.8mm	15.78mm	F5.0	1/1.8"	39°	10.5*10.5mm
M8*0.35	5.7mm	10.0mm	F3.0	1/3"	60°	PD 18mm
M8*0.35	8mm	12mm	F2.5	1/2.7"	49°	10*10mm
M8*0.35	8.5mm	6.5mm	F2.4	1/3"	50°	10*10mm
M8*0.35	10mm	8.5mm	F2.4	1/3"	30°	10*10mm
M8*0.35	10.36mm	16.03mm	F3.0	1/3"	33.5°	PD 18mm
M8*0.35	12mm	18.3mm	F2.4	1/2.7"	38°	10*10mm
M8*0.35	15mm	21.6mm	F4.5	1/2"	30°	10*10mm
M8*0.35	16mm	22.8mm	F2.0	1/3"	25°	PD 18mm

## M7 lens

## M7 レンズ

Mount	EFL	TTL	F. No.	Sensor	FOV (D)	Holder
M7*0.35	1.14mm	9.74mm	F2.4	1/6"	120°	10*10mm
M7*0.35	1.3mm	10.2mm	F2.5	1/6"	130°	8*8mm
M7*0.35	1.5mm	9.51mm	F2.0	1/4"	144°	8*8mm
M7*0.35	1.6mm	10.49mm	F2.4	1/3"	156°	8*8mm
M7*0.35	1.8mm	12.25mm	F2.6	1/5"	126°	8*8mm
M7*0.35	2.07mm	10.7mm	F2.6	1/4"	110°	10*10mm
M7*0.35	2.2mm	5.6mm	F2.8	1/4"	120°	8*8mm
M7*0.35	2.28mm	10mm	F2.0	1/4"	127°	8*8mm
M7*0.35	2.5mm	12.25mm	F2.5	1/4"	135°	8*8mm
M7*0.35	2.8mm	6.15mm	F5.5	1/3"	140°	8*8mm
M7*0.35	3.0mm	5.5mm	F2.8	1/4"	78°	8*8mm
M7*0.35	3.2mm	11.3mm	F2.6	1/4"	70°	8*8mm
M7*0.35	3.3mm	5.2mm	F2.8	1/4"	68°	8*8mm
M7*0.35	3.6mm	5.2mm	F2.2	1/4"	65°	8*8mm
M7*0.35	3.7mm	10.2mm	F2.4	1/3"	92°	8*8mm
M7*0.35	4.0mm	5.5mm	F2.5	1/4"	62°	8*8mm
M7*0.35	6.0mm	12.7mm	F2.8	1/2.7"	70°	8*8mm
M7*0.35	8.0mm	15.3mm	F2.8	1/2.7"	49°	8*8mm
M7*0.35	8.5mm	6.5mm	F2.4	1/3"	47°	8*8mm
M7*0.35	9mm	6mm	F2.0	1/3"	45°	8*8mm
M7*0.35	10mm	13.5mm	F2.8	1/3"	30°	8*8mm
M7*0.35	11mm	9.1mm	F2.4	1/4"	23°	8*8mm
M7*0.35	12mm	16.5mm	F2.8	1/2.7"	38°	8*8mm
M7*0.35	15mm	21.6mm	F4.5	1/3"	23°	8*8mm

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ダウンロードします



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