



Idea For Your Business



Shenzhen Novel Electronics Limited

深圳市诺维安电子有限公司

Video solution provider



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:

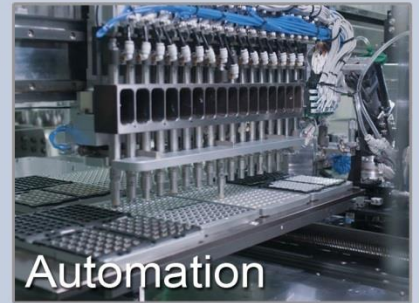
- 1, USB/MIPI/DVP/AHD Camera Module with lens m12/m7/m5/M16
- 2, Medical endoscopy camera module
- 3, Vehicle Security Camera Systems for Commercial vehicle and HGV TAXI Our camera module and various camera are widely used for industrial security, machine vision, Medical endoscopy camera, family image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



Showroom



Automation



Automation



Semi-automatic



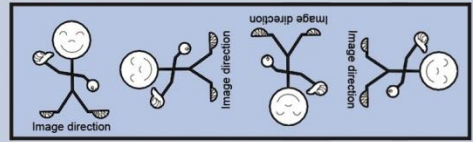
Test room



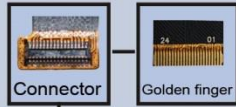
Test room

What we can customized ?

Image direction



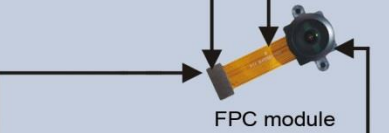
Connectors
camera modules:
PS/MOLEX/KYOCERA
HRS/JAE/YXT...



Optional
Customization



Optional
Customization



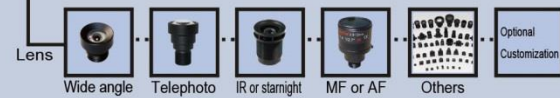
FPC module

Image Sensor

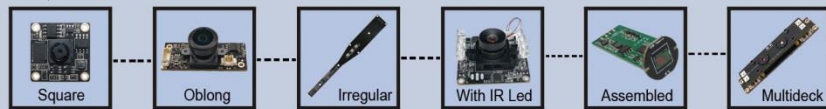
- Sony
- Samsung
- Omnivision
- GalaxyCore
- Hynix
- Aptina
- Himax
- ST
- SuperPix Micro
- SC smartsens



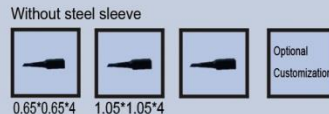
Optional
Customization



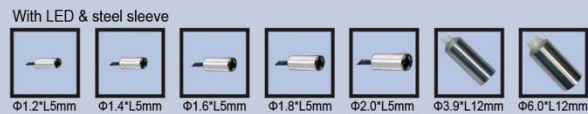
Optional
Customization



PCB board + FPC module

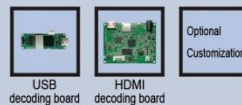
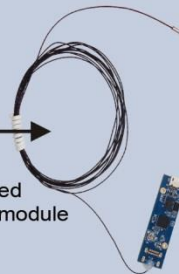


Optional
Customization



Optional
Customization

Integrated
endoscope module



Optional
Customization

Shell custom processing



Metal case

Plastical case

Optional
Customization

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



Hundreds of alternative lenses are available



Custom design cables are available



Different interfaces are supported



Square series



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



Round tube series



Camera size: Φ 20mm
(other size can be done)



Observation fire
Tubular with long focal length



Install with pipe clamp

Bullet series



Camera size: Φ 19mm
MP / 2MP / 5MP / 8MP

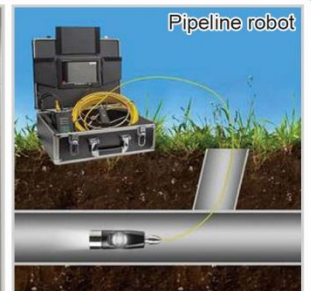


Mini CCTV

Cat's eye camera 2MP

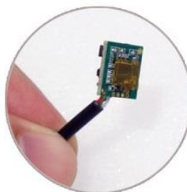
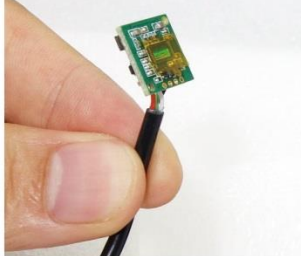


Security door

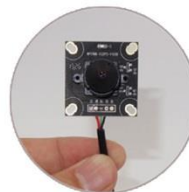


Pipeline robot

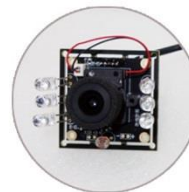
Custom-made



10*10mm, 12*12mm,



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

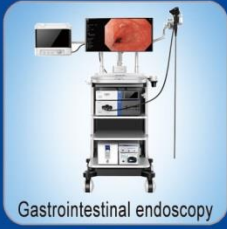


PCB+IR LED



For round shells

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



Gastrointestinal endoscopy



Bronchoscope



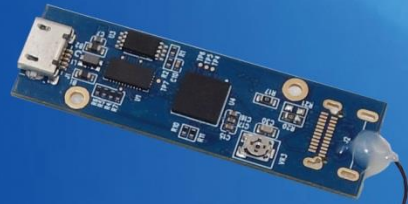
ENT endoscope



Urinary endoscope



One-shot hysteroscope



4 Led, steel tube

The smallest Front size $\Phi 1.2m$

Visual surgery



Endocardioscope



Gastrointestinal endoscope



Ent endoscope



Industrial inspection



Pipeline inspection



Maintenance inspection

			OVM6948 Sensor series 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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			OCHTA10 Sensor series 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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			OVM6946 Sensor series 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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			OCHFA10 Sensor series 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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			OV9734 Sensor series 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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			OV2740 Sensor series 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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The process of designing an endoscopic camera

Choose the sensor & lens
Design the head

without LED without steel tube	with LED with steel tube
with LED without steel tube	Head design

Design the cable

The inner data cable
Sleeve to protect the line

Output signal format

USB output USB, Type-C, Micro USB
HDMI output Store to TF card HD video output to the display

Design the handle or keyboard

Design the displayer

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MP HD
LED compensation
USB



HD dental camera module



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



HD skin and hair camera



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



HD iris detection camera



Camera modules for POS machine



IMX298



IMX351



S5K3P3



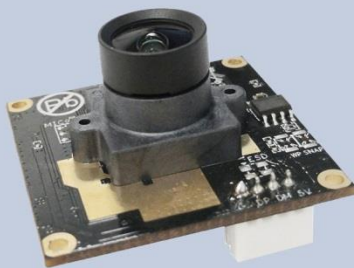
OV13850



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 Fresh electronic scale



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

Mini infrared thermal imaging module



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



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

Ultra-narrow border module

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



IMX415



OV2710+OV2710 Dual lens

Face recognition module

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



GC2145



OV9281, MP

Code scanning module

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



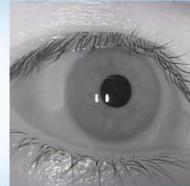
MP + 850nm IR



IMX258 Dual lens

Iris recognition module

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



SC530AI



MP 1/4"

Robot vacuum cleaner module

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



IMX291, 2MP



IMX678, 8MP

Starlight night vision 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



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



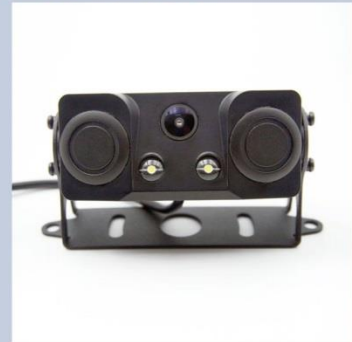
5inch IPS, Front 4K+rear 1080P
DV12-30V, support 256GB
Wireless carplay + AI BSD

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

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



Fisheye lens

鱼眼广角镜头

Telephoto lens

长焦镜头



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°	/

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°	/

Dark light night vision lens 星光夜视镜头



Mount	EFL	TTL	F. No.	Sensor	F0V(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 小镜头



Mount	EFL	TTL	F. No.	Sensor	F0V(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 差异化镜头



Mount	EFL	TTL	F. No.	Sensor	F0V(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系列镜头

Mount	EFL	TTL	F. No.	Sensor	F0V(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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