

Camera for embedded devices



Home / Public / Industrial security



Machine vision



AHD camera



USB camera



Camera module

Novel Manufacture Limited
Shenzhen Novel Electronics Limited
Video solution provider



Shenzhen Novel Electronics Limited started since 2011(our Hongkong company name : Novel Manufacture Limited found in 2007), is a professional image vision provider that R&D manufacture 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, 0.3MP to 48MP.

2, Medical / Industrial endoscope camera module.

3, Custom-made Embedded Vision Camera Module and Micro Cameras.

These cameras are widely used for machine vision, Medical, Industrial security, equipment machine and vehicles.



Showroom



Automation



Automation



Semi-automatic



Test room



Test room

Smallest size 2MP AHD Camera in the filed



For AHD display or DVR

Smallest size 2MP AHD Camera in the filed



For AHD display or DVR

Wifi Mini Camera

For security door cat eye installation



12MP Ultra HD
USB Camera module
14*14mm only
4000*3000@15fps
AF or MF optional



Super small size metal USB Camera



Smallest size 12MP USB Camera in the filed

Mini cameras

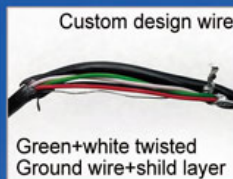
AHD / USB MP / 2MP / 5MP / 8MP / 12MP



Hundreds of alternative lenses are available

Distortionless	160°~210° Panoramic	120°~160° Wide angle	F0.95-F1.4 Starlight night vision	4mm 85°	6mm 60°	8mm 40°	12mm 25°	16mm 23°	25mm 14°	35mm 10°	50mm 7°	400mm 1°

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: $\Phi 20$ mm
($\Phi 8$ mm, 14mm, 16mm and other size can be done)



Bullet series



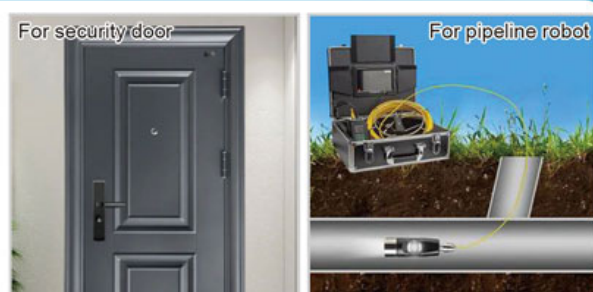
Camera size: $\Phi 19$ mm
MP / 2MP / 8MP



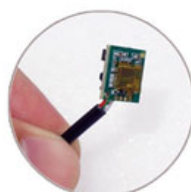
Security door camera



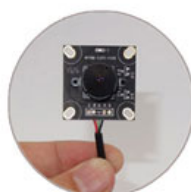
Wide-angle fisheye camera, USB or wifi camera



Custom-made



12*12mm, 14*14mm



23*23mm, 28*28mm, 38*38mm



PCB+IR LED

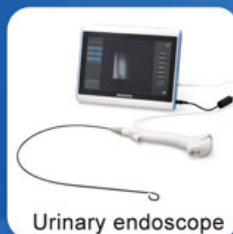
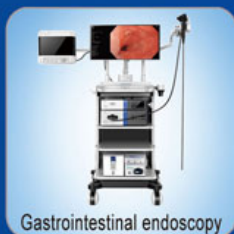


For round shells

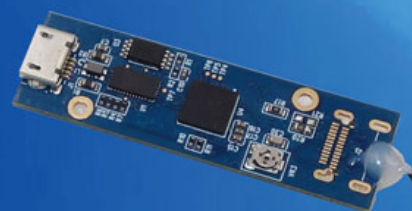
Support custom designed PCB shape and size, camera housing and wire

Endoscope camera & module

Suit for:



Front Size: 0.64*0.64 / 1.05*1.05 / Φ 1.2 / Φ 1.4 / Φ 1.6 / Φ 1.8 / Φ 2.0 / Φ 3.9 / Φ 6.0mm
Resolution: 0.04MP / 0.16MP / 0.3MP / 0.5MP / 1MP / 2MP



OV9734
MP HD Φ 3.9mm



Visual surgery



Endocardioscope



Gastrointestinal endoscope



Ent endoscope



Industrial inspection



Pipeline inspection



Maintenance inspection

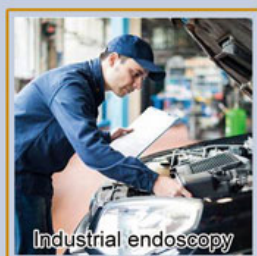


Super Mini AHD 2MP

6*6mm only.
Full HD 1920*1080P.
PAL 25fps or NTSC 30fps.
DFOV 75-115 lens optional.



Security monitoring



Industrial endoscopy



Device embedding



Vehicle application

AC-602



AC-501

15*15mm.
Full HD 1080P.
Lens optional.

AC-505



Bullet seires

AC-512



Block seires

AC-507



Tube seires

AC-520



IR seires

USB Camera & Digital Video Recorder Set



USB Camera & 4.3" screen DVR

1. Built-in lithium battery, can be used independently after charging
2. Small size, suitable for portable use.
3. All USB cameras under 2MP can be replaced



Police DVR



Body Camera



Working video



USB Camera & 7" screen DVR

1. Built-in lithium battery, can be used independently after charging
2. HD 7" large screen, suitable for fixed position installation.
3. All USB cameras under 2MP can be replaced



Home Security



Health examination



Device embedding

4.3" screen DVR



4.3" Universal display screen.
USB-A port.
Supports 64GB micro SD card
2~3 hours working time.
Video resolution 720P

7" screen DVR



7" HD display screen.
USB-A port.
Supports 64GB micro SD card
1~2 hours working time.
Video resolution 1080P full HD



AHD Camera & 7" HD display

- 1.The display provides power to the camera.
- 2.Simple connection.All mini 4 pin connector used.
- 3.All AHD cameras under 1080P can be replaced



Security door



Industrial monitor



Device embedding



Waterproof AHD Camera & 7" HD vehicle display

- 1.The display provides power to the camera.
- 2.Suitable for outdoor use in cars and commercial vehicles.
- 3.All AHD cameras under 1080P can be replaced



Pipeline inspection



Commercial vehicle



Device embedding



Mini AHD Camera & 7" HD vehicle display

- 1.The display provides power to the camera.
- 2.Can be used for vehicle security monitoring.
- 3.All AHD cameras under 1080P can be replaced



Industrial Security



Vehicle security



Device embedding

Special cameras

48MP



UC-548

48MP super HD

USB 2.0 camera,
8000*6000@5fps,
Size: 56*50*60mm



Suit for : Industrial, document scanner,

color
night
vision



UC-535

SONY IMX385 1/2"

Starlight full color night vision

USB 2.0 camera,
1920*1080@30fps,
Size: 51*45*45mm



Suit for : Night vision security monitoring,

color
night
vision



UC-532

SONY IMX291 1/2.8"

Starlight full color night vision

USB 2.0 camera,
1920*1080@30fps,
Size: 41*41*32mm



Suit for : Night vision security monitoring,



UC-541

Micro thermal imaging

USB or CVBS,
256*192 / 384*288 / 640*512,
Size: 21*21mm



Suit for : Industrial, UAV, fire safety

-25°C



UC-538

Cryogenic camera

USB 2.0 camera,
1920*1080@30fps FHD,
Size: 56*50*46mm,
The min temperature is -25°C



Suit for : Refrigerator, freezer, cold cellar



UC-528

Mine camera night vision close-range, white LED

USB 2.0 camera,
1920*1080@30fps FHD,
Size: 50*41*46mm,
Waterproof: IP67



Suit for : mine, sewer, pipeline,

UC-902



FHD dental camera

USB 2.0 camera,
1920*1080@30fps FHD,
6 LED, DFOV 140



Suit for : Oral, beauty, home health.

UC-803/UC-804



Φ3.9mm USB endoscope

USB 2.0,
640*480@30fps, 1280*720P@30fps
Size: Φ3.9mm *20mm
LED: with or without



Suit for : Industrial endoscope



UC-531

FHD USB / AHD vehicle camera

USB 2.0 , or AHD
1920*1080 Full HD,
Waterproof IP68,
Aluminum alloy case.
IR-LED night vision.
Suit for : Bus,pickups,caravan,truck,etc.



AC-532

Auto-shutter Auto heating camera

AHD camera ,1920*1080@25fps,
Aluminum alloy case.
Waterproof IP68, IR-LED night vision.
Auto-shutter when reversing,
Auto-heating when temp is low.
Suit for : Mining, construction vehicle. etc.



AC-536

AI BSD camera

AHD camera ,1280*720@25fps,
Aluminum alloy case.
Waterproof IP68,
Build-in voice speaker,
AI algorithm, DiDiDi sound.
Suit for : trucks, bus, Commercial vehicle, etc.



AC-537

AHD camera with 2 Rader

AHD camera ,1920*1080@25fps,
Aluminum alloy case.
Waterproof IP68,
Sensor X,Y,60℃
Sensor detect: 0.3m-2.5m
Suit for : trucks, bus, Commercial vehicle, etc.

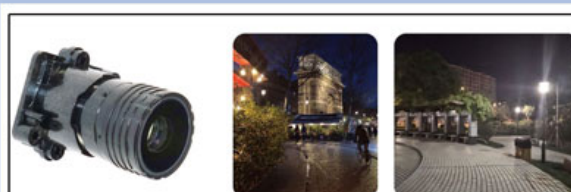
M7/M8/M12 pinhole lens



M7 sharp shaped pinhole,EFL 2.8, 3.7, 5.6, 6, 8, 12, 15mm
 M7 flat pinhole,EFL 2.3, 2.7, 2.8, 3.3, 3.8, 4, 4.7, 5.7, 6, 8, 9, 21, 30mm
 M8 sharp shaped pinhole,EFL 2.8, 3.7, 4, 6, 8, 10, 12, 15mm
 M8 flat pinhole,EFL 3.7, 4.4, 4.9, 5.7, 6, 8.5, 10.5, 11.5,12, 21mm
 M9 sharp shaped pinhole,EFL 3.7mm
 M10 sharp shaped pinhole,EFL 3.7mm
 M12 sharp shaped pinhole,EFL 2.1, 2.5, 2.8, 3.7, 5, 6, 7, 8, 10, 12, 15, 20, 22, 25, 30, 35, 45, 70mm

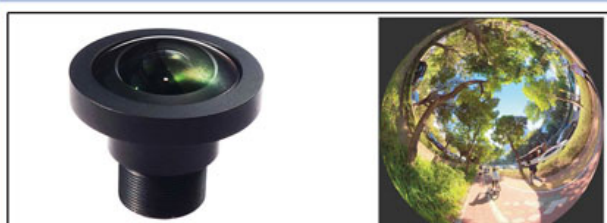
We can customize metal glass lenses according to requirements.

Dark light night vision lens



M12 : F1.1 1/2.7" DFOV 132°, TTL22.09mm, EFL3.4mm, 2MP
 M12 : F1.0 1/2.7" DFOV 104°, TTL22.34mm, EFL4mm, 5MP
 M12 : F1.0 1/2.7" DFOV 66°, TTL22.3mm, EFL6mm, 5MP
 M12 : F1.4 1/2.7" DFOV 110°, TTL22.2mm, EFL4mm, 5MP
 M12 : F1.4 1/2.7" DFOV 66°, TTL22.24mm, EFL6mm, 5MP
 M12 : F1.4 1/2.7" DFOV 48°, TTL22.24mm, EFL8mm, 5MP
 M12 : F1.4 1/2.5" DFOV 39°, TTL33.0mm, EFL12mm, 3MP
 M16 : F1.0 1/2.7" DFOV 110°, TTL31.96mm, EFL4mm, 2MP
 M16 : F1.0 1/2.7" DFOV 64°, TTL32.00mm, EFL6mm, 2MP

Wide Angle fisheye lens



M4.5 : 1/5" DFOV 125°
 M5.5 : 1/5" DFOV 144°, 1/6" DFOV 142°, 1/7.5" DFOV 137°
 M6 : 1/4" DFOV 120°, 1/6" DFOV 125°
 M7 : 1/4" DFOV 206°, 1/5" DFOV 150°
 M8 : 1/3" DFOV 200°, 1/4" DFOV 160°
 M12 : 1/2.5" DFOV 220°, 1/2.7" DFOV 220°, 1/3" DFOV 206°, 1/4" DFOV 220°, 1/1.8" DFOV 185°, 1/3.6" DFOV 220°, 1/3" DFOV 185°, 1/3" DFOV 180°, 1/3" DFOV 170°

Zoom lens



1/2.7" 2.7-13.5mm 4K/5MP 2.8-8mm 4K 5-50mm 4MP
 1/2.7" 5-115mm 5MP/HD F1.6 TTL90.7mm
 1/2.7" 4.5-148.5mm 4MP/2MP F1.4 TTL89.7mm
 1/2.8" 3.3-40mm 4K/5MP/HD F1.8 TTL 103mm low distortion
 1/1.8" 8-32mm 4K/4MP F1.6
 1/1.8" 3.6-11mm 4K/4MP F1.3 Φ16
 1/1.8" 10-50mm 4K/4MP F1.3 Fixed TTL67mm
 1/1.2" 15-50mm 4K F1.3 Fixed TTL90mm
 1/2.5" 2.8-13.5mm 4K/5MP F1.3 Φ14
 1/2.5" 6-22mm 4K/5MP/HD F1.6 Φ14
 1/2.7" 5-50mm 4MP/HD F2.0 Fixed Φ14
 1/1.8" 7-300mm 4K/4MP F1.6 TTL158mm
 1/1.8" 6.4-192mm 4K/4MP F1.6 TTL119mm

Lens for endoscope



Mount	EFL	F.No.	Sensor	DFOV	TTL	DOF
M2.1*0.15	0.90mm	F6.0	1/9"	140°	3.05mm	3-100mm
M2.2*0.25	0.92mm	F4.5	1/9"	140°	5.80mm	3-120mm
M2.2*0.25	1.00mm	F4.5	1/9"	120°	5.86mm	3-120mm
M2.2*0.25	1.06mm	F4.5	1/6"	120°	5.50mm	5-120mm
M2.6*0.25	1.10mm	F4.0	1/9"	110°	3.30mm	5-50mm
M2.55*0.1	1.26mm	F2.0	1/9"	78°	1.80mm	10-30mm
M3*0.2	1.25mm	F2.2	1/7.25"	88°	1.81mm	10-30mm
M3.15*0.15	1.44mm	F2.0	1/7.25"	80°	2.10mm	10-30mm

Special Mini lens



Mount	EFL	F.No.	Sensor	DFOV	TTL	Holder
M4*0.35	6mm	F4.5	1/4"	47°	9.65mm	6*6mm
M5*0.2	6mm	F5.6	1/4"	45°	6.00mm	6.5*6.5mm
M5*0.35	8mm	F5.2	1/4"	32°	7.90mm	8*8mm
M6.5*0.25	6mm	F2.2	1/4"	39°	5.60mm	8*8mm
M8*0.35	10.36mm	F3.0	1/3"	34°	16.03mm	PD18mm
M8*0.35	16mm	F2.0	1/3"	25°	22.8mm	PD18mm
M8.5*0.25	10mm	F2.4	1/3"	35°	8.80mm	10*10mm
M7*0.35	4.7mm*	F8.0	1/4"	54°	5.60mm	8*8mm

* We have a series of M7 lenses with Φ0.5 hole, EFL2.3, 2.7, 3.3, 4.5, 4.7mm etc.

Special USB Camera Modules



10X Zoom Auto Focus

Sensor: 2MP CMOS
Pixel: 1920*1080P@30fps
Lens: 10X Zoom, AF, F1.6
Suitable for machine vision.



48MP Ultra HD Camera

Sensor: 48MP Sony IMX586
Pixel: 8000*6000P@5fps
Lens: AF, D79°, F2.0
Suitable for HD monitoring.



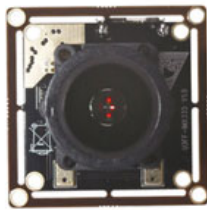
13MP Ultra HD AF

Sensor: 13MP Sony IMX258
Pixel: 4224*3192P@30fps
Lens: EFL3.46mm, AF, F2.2
Suitable for HD live camera.



4K ultra HD autofocus

Sensor: 8MP Sony IMX179
Pixel: 3264*2448P@20fps
Lens: AF, EFL3.5mm, optional
Suitable for document scanner.



USB 3.0 high speed

Sensor: 5MP Sony IMX335
Pixel: 2592*1944P@30fps
Lens: EFL3mm, D150°, F1.8
Suitable for machine vision.



5MP document scanner

Sensor: 5MP MI5100
Pixel: 2592*1944P@30fps
Lens: EFL2.97mm, F4.0
Suitable for high-speed photographic apparatus.



Ultra low illumination

Sensor: 1/2" 2MP Sony IMX385
Pixel: 1920*1080P@30fps
Lens: F1.0~F1.4, optional
Suitable for night monitoring.



HDR 2MP, Mini size

Sensor: 1/2.7" 2MP PS5268
Pixel: 1920*1080P@30fps
Size: 20*14mm, low-distortion
Suitable for backlight environment



B/W scanning code global shutter

Sensor: 1/7.5" OV7251 VGA
Pixel: 640*480P@120fps
Lens: D50~130° optional
Suitable for barcode scanner.



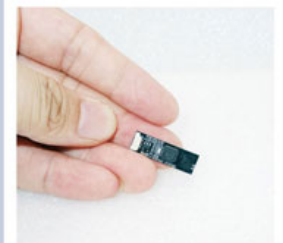
HD Global exposure dual camera

Sensor: 1/4" OV9281 MP * 2pcs
Pixel: 2560*720P@60fps
Lens: D50~130° optional
Suitable for B/W high-speed.



Split design, FPC+PCB

Sensor: 1/4" OV5640 5MP
Pixel: 2592*1944P@15fps
Lens: optional
Suitable for device embedding.



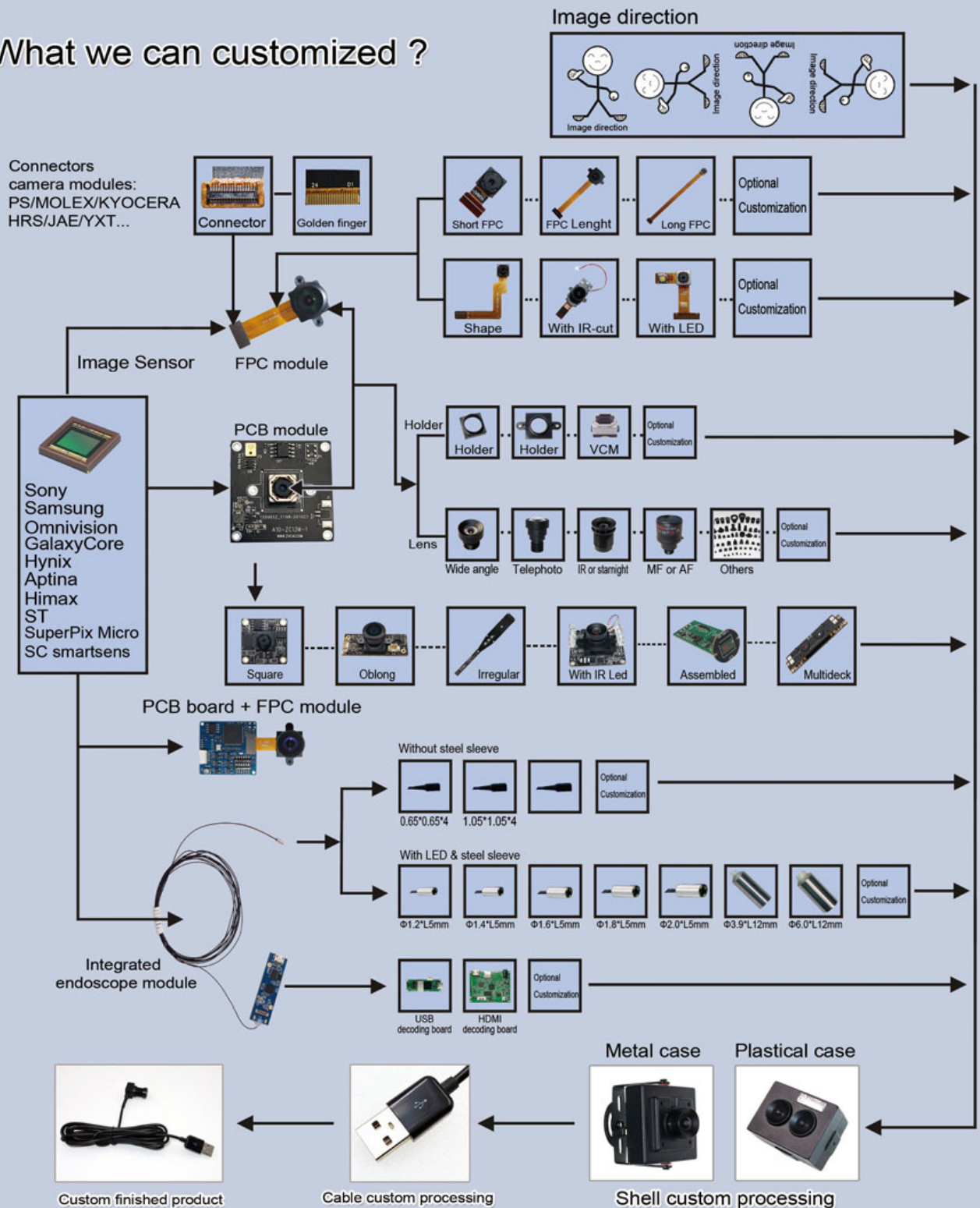
Mini size USB camera

Sensor: 1/9" VGA
Pixel: 640*480P@30fps
Size: 25*8mm Lens: optional
Suitable for small space device.

We can customize the camera shell and wire according to customer requirements.

Customizable parameters of camera modules

What we can customized ?



We work and use international famous brand image sensor:

SONY

Omnivision

onsemi

Panasonic

SAMSUNG

Himax

SMARTSENS

hynix

SuperPix

GALAXYCORE

BYD

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Product application of Novel USB camera / AHD Camera / Camera Module / lens



Novel Manufacture Limited Shenzhen Novel Electronics Limited

Add: 3A05 Floor 4, Plant 8, No31 Jiaan Road, 41 District, Xinan Street,
Baoan, Shenzhen, China 518101

Tel: +86-755-2977 5656 , Mobile & wechat & whatsapp: +8613510914939

Web: www.okgoobuy.com , www.an755.com

Mail: office@okgoobuy.com , goobuy@163.com

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