



























COMPANY NAME	MCNEX Co., Ltd.	REVENUE	USD1.0B in 2022
HEADQUARTER	Incheon, South Korea	IPO	Listed on Korean exchange market (KOSPI) in 2021
MAIN FACTORY	Ninh Binh, Vietnam	CERTIFIED	IATF 16949 IN 2018
ESTABLISHED	Dec. 2004		

MAIN CUSTOMER

SAMSUNG	НУППОВІ	KI	MOBIS
HL Klemove	Mando Halla Carpary	LG Electronics	DOOSAN
LS SETEL	○ GEELY	molex*	₡ K90cera
SHARP	YURA	core photonics	RYODEN

AUTOMOTIVE SOLUTION

Multi interface camera module	Shark Antenna camera system	Dual scanning camera
AHD, LVDS(GMSL, FPD-link), Ethernet, etc.	In-cabin camera system: DMS, OMS	High resolution camera: 7.4MP, 8MP
ADAS & Autonomous driving camera applications	FRU (Face Recognition unit) system	Fingerprint sensing system
SVM, MFC, Tri-focal camera system, Dual camera, etc.	DVRS system: FHD, QHD	ToF camera

MOBILE SOLUTION

SMART PHONE CAMERA MODULE	ACTUATOR	BIOMETRIC MODULE
Single, Dual, Triple, Quadruple camera	VCM, Encoder, OIS	Iris, Face recognition camera
OIS, Folded zoom, ToF camera	Folded zoom	Fingerprint & Body temp. Sensing module. Skin sensor module

SYSTEM SOLUTION

Dashcam, Golf range finder, Network Camera, Medical camera, AR/VR/MR camera, USB camera

EMS (ELECTRONICS MANUFACTURING SERVICE)

Manufacturing service for all kinds of electronics items





HYUNDRI KI	PSA PELIGEOT CITICOEN	0
69 vehicle model	2 vehicle model	1 vehicle model
Mercedes-Benz	STELLÄNTIS	DOOSAN
1 vehicle model	1 vehicle model	2 vehicle model

TOTAL 1,041 CAMERA MODELS ANNUAL SHIPPING 6.0 MIL MODULES

1,041 model camera moduleS development (supplying for all premium vehicles in Hyundai, KIA)

MILITARY VEHICLE







HEAVY EQUIPMENT









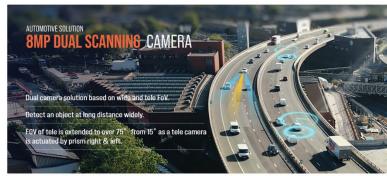
CATEGORY	ITEM	SPECIFICATION
	Resolution	1920 * 1080
	Image Sensor	CMOS FHD SENSOR
	Frame Rate	60fps
CAMERA / ECU	View Angle	H:30° / 60° / 120°
	Output Format	LVDS (PoC)
	Power	DC12V (±2.0V)
	Image Format	RAW Data
	Operating Temp.	-40 ~ +105°C







CATEGORY	ITEM	SPECIFICATION
	Input Voltage	DC 7V ~ DC 24V
	Fov(H)	82°
CAMERA	Resolution	1280*720p@60fps
/	IR	940nm LED
ECU	Video Output	LVDS(PoC)
	Data Output	CAN
SENSING		Disparity Map





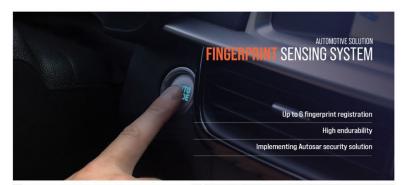
CATEGORY	ITEM	SPECIFICATION
	Input Voltage	DC9V ~ DC25V
	Fov(H)	Wide: 120° Tele: 15°
CAMERA	Pixel Resolution	8M pixel
	Video Output	LVDS(PoC)
	Data Output	CAN
	-	(4)
APPLICATION	PD, VD, TLR, TSR	140
	-	-







TEGORY	ITEM	SPECIFICATION
	Resolution	1280(H) X 800(V), 1Mp
	Image Sensor	1/4" CMOS Mono
	Frame Rate	30fps
AMERA	View Angle	H 85°±3°, V 53°±3°
YSTEM	Output Format	LVDS(POC)
	Power	DC 8V(±0.5V)
	AP	CPU Arm Cortex
	(2)	-

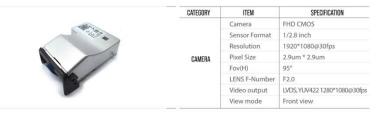




CATEGORY	ITEM	SPECIFICATION
	MCU	32bit RISC CPU
	Max Register no.	6 ↑
	Interface	SPI
FINGERPRINT SENSING	OS	AUTOSAR
SYSTEM	Communication	CAN, SPI
	FRR/FAR	FRR 1%, FAR 1/100,000
	Operating temp	-40~85℃
	-	



DVRS CAMERA - 1st GENERATION



DVRS CAMERA - 2st GENERATION





ITEM	FRONT CAMERA	REAR CAMERA
Image Sensor	QHD CMOS	QHD CMOS
Sensor Format	1/1.7 inch	1/1.7 inch
Resolution Driving	2560 *1440P @30fps	2560 *1440P @30fps
Resolution Parking	2560 *1440P @10fps	2560 *1440P @10fps
Pixel size	2.25um	2.25um
FOV(H)	100°	100°
F no.	1.6	1.6







CATEGORY	ITEM	SPECIFICATION
	Input Voltage	DC9V ~ DC25V
CAMERA	Fov(H)	120°
1	Pixel Resolution	7.4/8M pixel
ECU	Video Output	LVDS (POC)
	Data Output	CAN
	PD, VD, TLR, TSR	(5)
SENSING	0.53	
	(8)	-





CATEGORY	ITEM	SPECIFICATION	
CAMERA	Resolution	1280(H) X 800(V), 1Mp	
	Image Sensor	1/4" CMOS Mono	
	Frame Rate	30fps	
	View Angle	H 85°±3°, V 53°±3°	
	Output Format	LVDS(POC)	
	Power	DC 8V(±0.5V)	
	- 2	-	
		(4)	



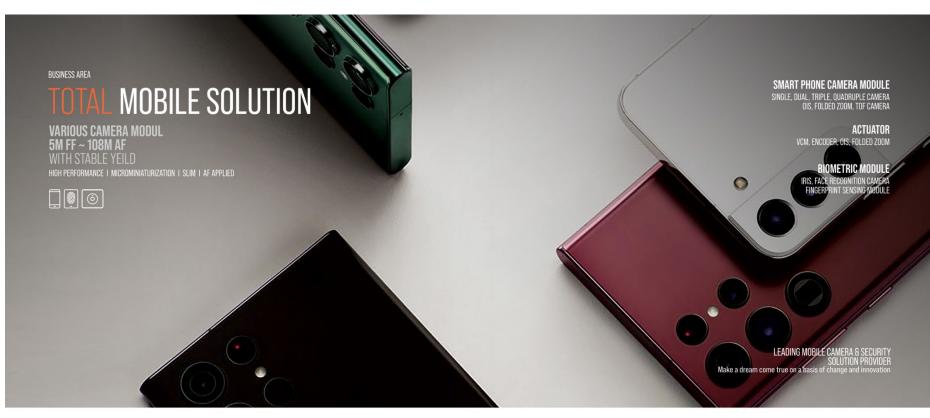








CATEGORY	ITEM	SPECIFICATION	
	Fov	192°(H), 120°(V)	
IVDS	Pixel Resolution	1280 × 724p@30fps	
CAMERA	Video Output	LVDS (POC)	
	Approach	SVM, RVM	
	Fov	192°(H), 137°(V)	
FTHERNET	Pixel Resolution	1280 × 944p@30fps	
CAMERA	Video Output	Ethernet	
	Approach	SVM, RVM	
	Fov	192°(H)	
AHD	Pixel Resolution	1280 × 724p@30fps	
CAMERA	Video Output	AHD	
	Approach	RVM	



TOTAL MOBILE SOLUTION

SMART PHONE CAMERA MODULE

SINGLE, DUAL, TRIPLE, QUADRUPLE CAMERA OIS, FOLDED ZOOM, TOF CAMERA

CAMERA MODULE LINE-UP_FIXED FOCUS MODEL

	5M FF	5M FF	5M FF	5M FF
			(
	CONTRACTOR	120	H2804 001 A42	
F.N	O_2.0 / FOV_68°	F.NO_2.4 / FOV_78°	F.NO_2.4 / FOV_85°	F.NO_2.2 / FOV_123°

8M FF	12M FF	12M FF	13M FF
		- CO	
F.NO_2.2 / FOV_80°	F.NO_2.2 / FOV_120°	F.NO_2.2 / FOV_123° 24M FF	F.NO_2.0 / 78°
<u> </u>	W ST		
F.NO_1.9 / FOV_76°	F.NO_2.0 / FOV_79°	F.NO_1.9/ FOV_76°	



CAMERA MODULE LINE-UP_AUTO FOCUS MODEL

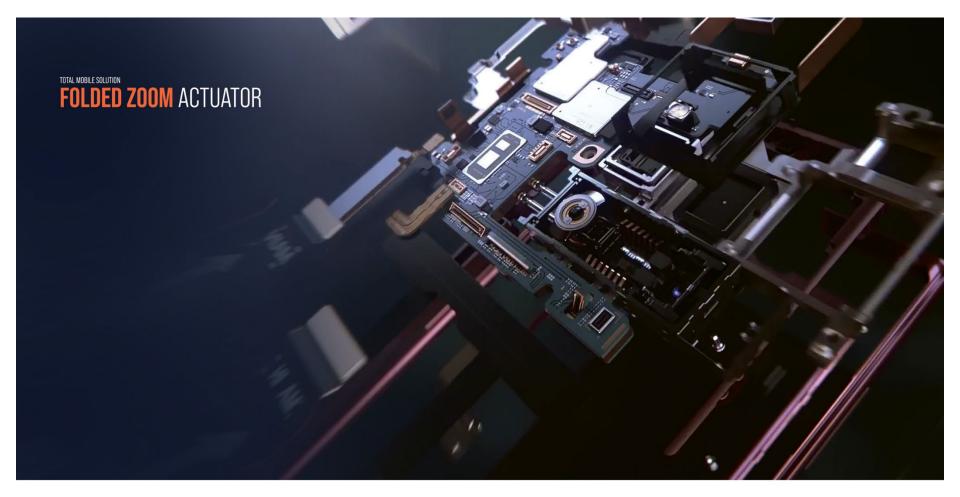
10M AF	10M AF	10M AF	13M AF
F.NO_2.2 / FOV_85°	F.NO_2.2 / FOV_80°	F.NO_2.4 / FOV_80°	F.NO_1.7 / FOV_75
13M AF	13M AF	40M AF	48M AF
F.NO_2.0 / FOV_76°	E.NO_1.9 / FOV_77°	F.NO_2.2 / FOV_80°	F.NO_1.8 / 80°
48M AF	64M AF	1.140_2.27104_00	1.140_1.0700
F.NO_2.0 / FOV_80°	F.NO_1.8/ FOV_81°		

CAMERA MODULE LINE-UP_OIS MODEL

10M OIS	12M OIS	12M OIS
F.NO_2.4 / FOV_35°	F.NO_2.4 / FOV_76°	F.NO_2.4 / FOV_36
	where L	
	64M OIS	64M DIS 108M DIS

CAMERA MODULE LINE-UP_MULTI MODEL

65M AF / 12M AF	12M AF / 12M AF	64M AF / 12M FF / 5M FF	48M AF / 12M FF / 5M FI
65M: F.NO_2.0 / FOV_76° 12M: F.NO_1.8 / FOV_79°	12M(L) : F.NO_2.2 / FOV_80° 12M(R) : F.NO_2.4 / FOV_120°	64M: F.NO_1.8 / FOV_81° 12M: F.NO_2.2/ FOV_123° 5M: F.NO_2.2 / FOV_84°	48M: F.NO_2.0 / FOV_80° 12M: F.NO_2.2/ FOV_123° 5M: F.NO_2.4 / FOV_78°
24M AF / 10M F	FF / 8M FF / 5M FF		
24M : F.NO_1.7 / FOV_77'	° / 10M : F.NO_2.4/ FOV_45° ° / 5M : F.NO_2.2 / FOV_85°		



FOLDED ZOOM ACTUATOR - 5X / 10X



- Up to X10 Optical Zoom-in
- Lower height using Prism mechanism
- Enhanced Image distortion as matching Pivot center and Optic center

AF SPEC

ITEM	UNIT	SPEC
Rated Stroke	um	Min 2410
Hysteresis	um	Max 12
Linearity	um	Max 20
Holding Current	mA	Max 40
Actuating Tilt	Min	Max 10

OIS SPEC

TEM	UNIT	SPEC
Rated Stroke	Deg	Min 2.4 (±1.2)
Hysteresis	Deg	Max 0.10
inearity	Deg	Max 0.11
Max current	mA	Max 100
Phase margin	Deg	Min 25
oop Gain	dB	Min 20

TOTAL MOBILE SOLUTION

TOF CAMERA



TOF CAMERA MODULE

Proved that the optical FOWLP can be used for ToF sensor application. 20% smaller, and 230um thinner module is possible.





SPECIFICATION

ITEM	MIN	NORMAL	MAX	UNIT	REMARK
PKG Height	222	270	318	UM	
Ball Pitch X	-	500	2	UM	
Ball Pitch Y	-	500		UM	
Total Ball Count		314	-	EA	
Resolution		320X240		PX	QVGA
Modulation frequency of VCSEL Driver	20		100	MHZ	
VCSEL wavelength		940		NM	

KEY FEATURES

	Removal of PCB, substrate-less
Size	3D stacking of TOF sensor and the driver IC
	Thickness reduction (>230um)/ Area reduction (>20%)
Easy mounting	No Ceramic Carrier or substrate PCB needed
Lasy mounting	Use ACF film or SMT process to electrically assemble the FOWLP onto the F-PCB
Mass-production	The optical FOWLP is fabricated by the wafer level process with mass- production capability.



OUTSIDE VIEW AND FEATURE

Applying Module Tilt method result in NO Image Distortion

Stabilization angle is twice better than existing products (1.5 deg $\,\rightarrow$ 3 deg)

Module Tilt OIS: Vibration Reduction + External Tremors Reduction

Module Tilt method applied for mobile devices (Patent held by MCNEX)







SPECIFICATION



ITEM	CONDITION			
FOOT PRINT	A: 18.4 x 18.4 x 1.8H / B: 14.0 x 14.0 x 4.7H			
STABILIZING ANGLE	± 3deg			
MAX CURRENT	AF: 50mA / OIS: 100mA (TBD)			
PIXELS	48M			
SENSOR	SONY $\frac{1}{2}$ 48Mega CMOS IMS586-AAJH5-S			
SENSOR SIZE	4.504mm(H) x 5.659mm(V)			
LENS	SUNNY 39256			
LENS SPEC	Ф8.25/6Р			
AF STROKE	380~430um			

USB CAMERA MODULE



8MP UHD 120° USB CAMERA BOARD



Item	USB Camera SPEC
Form factor	PCB Module Type
PCB SIZE	40mm x 15mm x1.0T
Camera Resolution(MAX)	8MP(3264x2448)
Image Sensor	1/4, Pixel size: 1.12um
Video Max frame rate	MJPEG: 8MP 30fps @(3264x2448), 4:3,
	5MP 30fps @(2592x1944)
	Full HD 60fps@(1920x1080) / 2MP 60fps @(1600x1200)
	HD(1280x720) 120fps, VGA(640x480) 120fps
MIC	Option
I/O Interface	USB 2.0
Camera Interface(AP-Camera)	MIPI(CSI-2/4 lane)
Lens spec	4P, F2.2

5MP USB CAMERA BOARD



Item	USB Camera SPEC
Form factor	PCB Module Type
PCB SIZE	50mm x 7mm x 0.8T
Camera Resolution(MAX)	5MP(2592x1944)
Image Sensor	1/5, Pixel size: 1.12um
Video Max frame rate	30fps @ 5Mp (2592 x 1944) / 30fps @ quad HD (2560 x 1440)
MIC	2MIC Support
I/O Interface	USB 2.0
Camera Interface(AP-Camera)	MIPI(CSI-2/4 lane)
Lens spec	4P, F2.4



8MP USB CAMERA BOARD



Item	USB Camera SPEC
Form factor	PCB Module Type
PCB SIZE	40mm x 12mm x1.0T
Camera Resolution(MAX)	8MP(3264x2448)
Image Sensor	1/4, 200um, Pixel size: 1.12um
Video Max frame rate	MJPEG: 8MP 10fps @(3264x2448),4:3
	5MP 10fps @(2592x1944)
	2MP 60fps @(1600x1200) / YUY2: 5fps @(1600x1200
MIC	Option
I/O Interface	USB 2.0
Camera Interface(AP-Camera)	MIPI(CSI-2/4 lane)
Lens spec	4P, F2.2

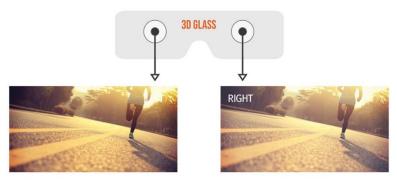
OTAL MOBILE SOLUTION

3D DEPTH CAMERA

TECHNOL SOL

2 cameras can be actuated by one controller. This controller can mix 3D image without any other software 2D or 3D is optional.

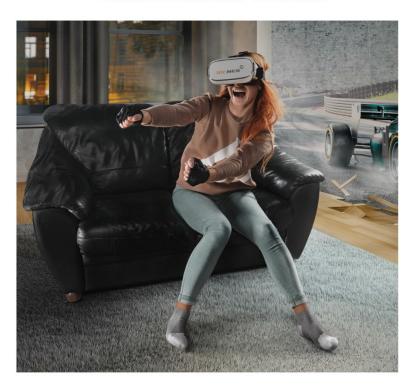




SIDE BY SIDE (SHUTTER GLASS) IMAGE

As displaying right&left frame side by side, open and close a crystal shutter side by side to balance both sides of the frame timing

METAVERSE. 6G. AR. VR. MR. XR SOLUTION



DUAL CAMERA MODULE

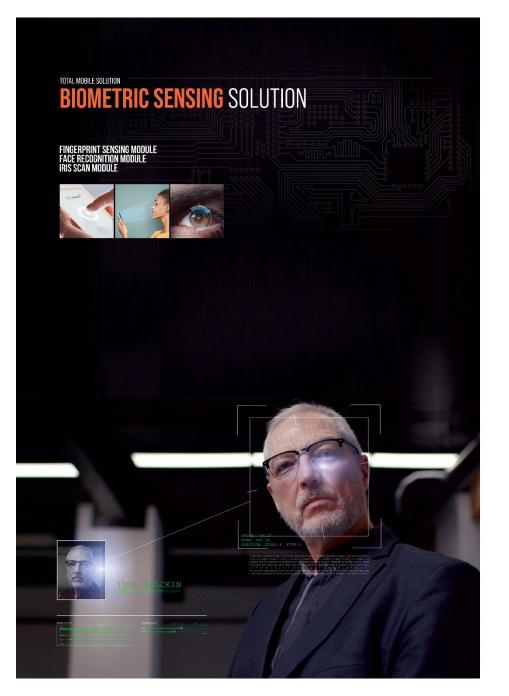


Application	AR, VR, MR, XR
Module Size	105mm x 10mm x 6.5mm
Pixel Size	1/4" CSP
Resolution	1 Mega pixel
I/F	USB3.0 & MIPI
F#	2.0
View Angle	180°
IR LED	850nm, 150°



PRODUCT	TYPE	RESOLUTION	DIMENSION
	CVCA (BALL)	40M	9.1X9.74 / 3.76T
	OIS (BALL)	64M	13.7X13.1 / 4.65T
	OIS (BALL)	12M	13.7X13.1 / 4.65T
	OIS (BALL)	10M	11.1 X 11.1 / 5.65T
	OIS (BALL)	64M	13.5 X 13.5 / 4.8T
	OIS (BALL)	8M	10.0 X 10.0 / 4.3T
	OIS (BALL)	48M	12.5 X 12.1 / 4.3T

PRODUCT	TYPE	RESOLUTION	DIMENSION
	OIS (BALL)	12M	11.3 X 11.7 / 3.95T
	OIS (BALL)	64M	13.5 X 13.5 / 4.8T
	OIS (BALL)	50M	14.8 X 15.3 / 4.1T
	OIS (BALL)	12M 3X	11.1 X 11.1 / 5.15T
	OIS (BALL)	108M	13.9 X 13.9 / 4.8T
The same of the sa	ZOOM (BALL)	12M	36.2 X 14 X 6.2T
	OIS (BALL)	200M	18.0 X 18.7 X 4.9T



FINGERPRINT SENSING MODULE



CAPACITANCE FINGERPRINT SENSING MODULE



SPECIAL COATING TECHNOLOGY (NON-SPRAY COATING)

WIRE BONDING TECHNOLOGY FOR LOW LOOP CONTROL

SPECIALIZED PROCESS FOR FINGERPRINT SENSOR MODULE

GREAT PACKAGE PROCESSING AND INTERNALIZED PACKAGE

CAPACITANCE LINE UP













OPTICAL FINGERPRINT SENSING MODULE



HIGH VISIVILITY BY IN-DISPLAY TYPE

INSTINTIVE USAGE (DIRECT TOUCH TYPE TO OLED PANEL)

HIGHER RESOLUTION THAN CAPACITANCE TYPE: 750 Dpi

NO EFFECT TO OLED YIELD BECAUSE MODULE IS NOT CONTACT TO A PANEL.

OPTICAL LINE UP









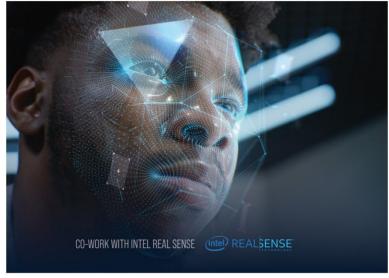






IRIS CAMERA MODULE

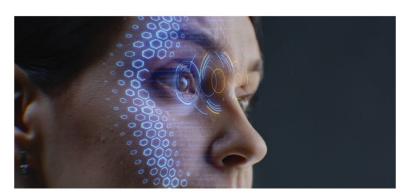




FEATURES

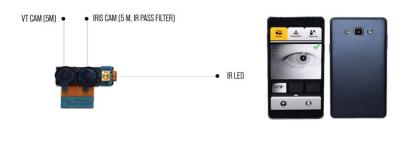
1:1M FAR (False Acceptance Rate)	Low cost design
Highly Secure : Encrypted feature points	Working in all lighting condition : indoor, outdoor, dark etc.
Strong anti-spoofing	Passed Google Certification Test
Vast and Unique 3D & 2D IR databases	

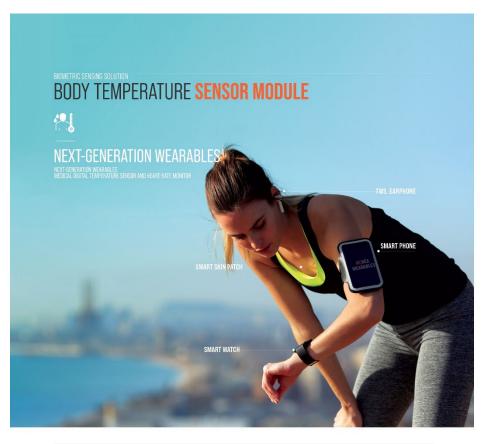
ITEM	CONDITION
SIZE(mm)	12.7 x 7.2 x 3.25t (Focus 60cm)
PIXEL	2M
SENSOR	OV02A10 (1/5", 1.75µm)
Field of View	85.2°
F#	F2.0
TTL	2.7mm
	SIZE(mm) PIXEL SENSOR Field of View F#



FEATURES	HIGH SECURITY / HIGH RECOGNITION RATE
Optimized Solution for "ALL EYE COLOR"	Unable to forge / falsify using photo, video, etc
Applied IR-LED & Band pass filter of 810nm wavelength range	Low rate of error recognition
Running VT / IRIS Camera via Switching function	Impossible to find same patterned iris
High recognition rate regardless of light from indoor-outdoor	After infancy, iris is no longer changed

SMART SECURITY





Very small size (for wearable)	Accurate non-contact temperature measurement
Health tracker	Optimization of space utilization

FEATURES

	SPEC
CH / FOV	4 Cell / 70°
Operating temperature	-20°C ~ 85°C
Medical accuracy	Satisfied
Interface	I2C, VDD(3.3v),GND
Module Size (mm)	5.20 x 13.32 x 1.78(t)
Deco Size (mm)	4.20 x 4.32



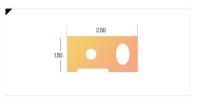
SKIN SENSOR



Very small size (for TWS)	SMD Type
Skin detector	Accurate skin contact / fabric contact detection

FEATURES

	SPEC	
CH / FOV	2 Ch	
Operating temperature	TBD	
Interface	I2C, VCC, GND	
Module Size (mm)	2.50 x 1.50 x 0.80(t)	



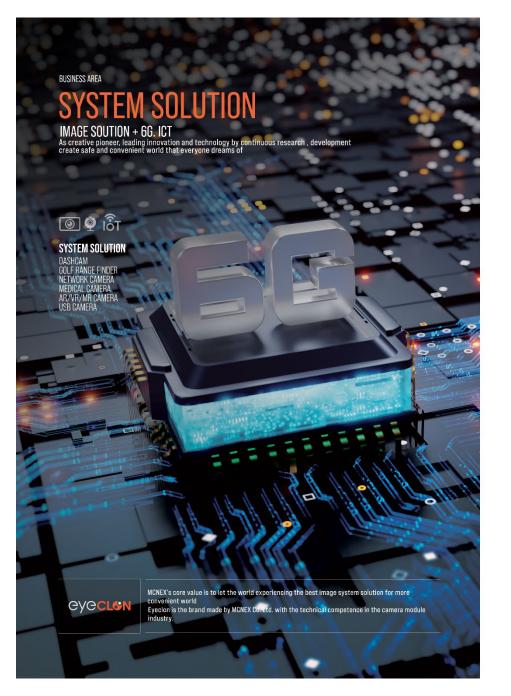
PPG MODULE HEART PULSE. BODY FAT SENSOR MODULE

Heart Pulse, Oxygen Saturation, Body Fat	Module Type	
Optical, Impedance Type	1Ch ~ 8Ch Custom	

FEATURES

	SPEC
PD CH	1Ch ~ 8 Ch
LED	Green, Red, IR
Operating temperature	-20℃ ~ + 60℃
Interface	SPI/I2C, VCC, INT, GND
Module Size (mm)	Design By Custom





DASHCAM DASHCAM





Model		MD-Q		
Resolution		Front: 2560x1440/Rear: 1920x1080(2ch)		
Image Sensor	Front	SC500AI / 135°(D) x 113°(H) x 61°(V) @30fps		
iiilaye sensoi	Rear	SC223A (1/2.8")/ 146°(D) x 116°(H) x 62°(V) @30fps		
LCD		2.0" TFT IPS LCD with Capacity Touch		
GNSS		Built in support(GPS,BEIDOU,QZSS)		
Memory Capacity		Micro SD Card up to 256GB		
Motion detection		3 Axis Acceleration Sensor & Radar Sensor		
Power		DC 12V/24V		
Operating Temp		-20°C ~ 60°C		
Dimension, weight		56x42x29mm / 119g		
ADAS		LDWS, FCWS, FVSA		

SYSTEM SOLUTION DASHCAM

SYSTEM SOLUTION DASHCAM



L7PRIME LTE DASHCAM IMPLEMENTING WORLD FIRST SOUND PRESSURE SECURITY TECHNOLOGY FOR WARNING THEFT PROTECTION

INTRUDING PROTECTION	Detecting sound wave when intruding
THEFT PROTECTION	Warning when intruding into a car
ALRAMING CAR FIRE	Alarming when car is firing
IDENTIFYING PARKED LOCATION	Texting a parking location when parked
MANUAL RECORDING	Check the recorded video after manual recording by smart phone app.
DUAL BAND	LTE / WCDMA
CONTROLLING LOCATION/VIDEO/ STATUS	Check location and recorded video remotely



Model Resolution		CLON L7 PRIME	
		Front: FHD1920x1080/Rear: 1280x720	
Front		1/2.9" CMOS Color Image Sensor	
Image Sensor	Rear	1/4" CMOS Color Image Sensor	
Frame Rate		30fps(Front & Rear)	
View Angle		Front: 130°, Rear: 118°	
LCD		3.5 inch HVGA	
GPS		External	
Memory Capacity		Micro SD Card Support up to 64GB	
Power		DC 12V/24V, Super Cap	
Operating Temp		-20°C ~ 60°C	
Dimension(mm)		112 X 69 X 42mm / 175g	
ADAS		LDWS, FCWS, FVSA, OBD II	
LTE Feature		Real time monitoring and alarm via smartphone app	





Model	CLON3000
Size/Weight	59(W) x 43(H) x 29(D) / 75g
Micro SD card capacity	up to 256GB
Resolution	Front / Rear: FHD (1920 x 1080)
Front Camera	IMX 307 / 105° (H) x 56°(V) x 126°(D)
Rear Camera	IMX 323 / 105° (H) x 56°(V) x 126°(D)
Audio / Speaker	Embedded microphone / speaker
Frame Rate	Front / Rear : Max 30 Frame
Acceleration Sensor	3 Axic Acceleration Sensor
GPS	External GPS Port
Input Power Source	DC 12 / 24V
Auxiliary Power Unit	Super Capacitor
Operating Temp	-10°C ~ 60°C



•	High Quality Optical Lens(lens & Prism)
	Bright adjustable 2Color OLED(Red, Green)
	Calculate a distance reflecting altitude as supporting Slope Mode
	High Speed measuring distance
	Meter/Yard
	High Accuracy
	Water&dust proof: IP54
	CR2 Battery(Replaceable)
	Anti-hand shaking(Pin seeker , Jolt)
	Slope mode/non slope mode/scan mode
	Indicator LED(Slope mode: LED On)

FEATURES

Item	Spec
SIZE / Weight	107.35x38.17x69.03mm/T.B.D
Battery	CR2
View LCD	2Color OLED
Range	0~1,200YD
Accuracy	0.3YD~0.5YD~1YD
Speed (sec)	0.18~0.38~0.58
Optic zoom	X6
FOV	7°
Water/dust proof	IPX54
Slope Mode	Support
Operating Temp.	-20°C ~ 50°C

F	EATURES
	Measure a distance to a green hall by voice command
	Support multi satellite system, Gain over 24 satellites
	Map update through Blue Tooth
	Calculate a distance reflecting altitude
	Meter/Yard
	Measure a ball travel distance (Long Key)
	Setting menu on a smart phone by app.
	Auto detect a golf course and hall
	Select a green (left green/right green/both)
	Support Pogo charging port(Magnetic pogo type)

Item		Spec	
SIZE Weight		Ф44~Ф35, 12.4mm(H) 22.5g	
Voice recog	nition		
BlueTooth Battery		O (BLE 5.1) Chargeable Lithium Polymer	
Operating t	ime at full charging		
Trigger type for distance Guide		Voice command or Button	
I/F	Wireless	Blue Tooth	
Cable		USB	

SMART MEDIA

SMART GLASSES



HIGHLY SIMPLIFIED OPTIC STRUCTURE TO ENSURE

- 1. High efficiency of image data transmitting
- 2. Unique system lens to deliver 2D and 3D images
- 3. Lighter and smaller smart glass device

CENTER-MOUNTED OPTIC MODULE TO PROVIDE

- 1. Wider view angle compared to side-mounted ones
- 2. Unique system lens to deliver 2D and 3D images
- 3. Fit in any stylish design for any application

CENTER-MOUNTED OPTIC MODULE

Our center-mounted optic module enables wide view angle for our glasses, solving one of the most difficult challenges faced by other smart glasses

Center-mounted optic module also allows us to design our glasses more stylish, compared to other models that are bulky and inconvenient to handle

BEST-IN-CLASS OPTIC DESIGN

Our patented technology enables us to use extremely thin beam splitter (2mm) as part of the optic module, making our glasses light weight and more comfortable to wear

Even with our minimum-sized optic module, the virtual images are created far enough from your eyes which makes refocusing of your eyesight unnecessary in order to view images



IOT. ICT CONVERGENCE OF IMAGE SOLUTION AND ICT TECHNOLOGY

INFORMATION COLLECTION

Gender, Age, number of visitors, Preference, purchase pattern, etc

INFORMATION ANALYSIS

Log server save, report date collection, data extraction

INFORMATION SEND

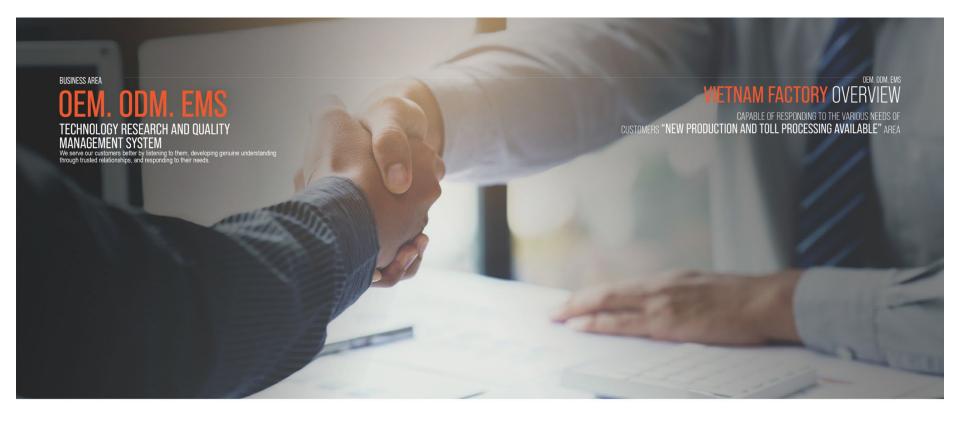
Emergency prevention, translating service, purchase service, visitor data, sales data provide, security, control, suggested service

SMART DID CES BOOTH IN 2019











MANUFACTURING SITE	Phuc Son Industrial Park, Ninh Binh City, Vietnam				
FACTORY SIZE	Land A	rea	Building Area	Employees	
THOTOIT GIEE	150,000 m²		127,338 m'	6,124	
ITEM & CAPACITY	<u></u>	0			
	Mobile Camera	Actuator	Biometric	Automotive Camera	
	30M / Month	11M / Month	9M / Month	1.5M / Month	







3TH FACTORY TOTAL AREA 24,000 m³

2 FLOOR - 12,000 m2

3 FLOOR - 12,000 m²

OEM, ODM, EMS

COMPETITIVENESS

VERIFIED QUALITY **MANAGEMENT** SYSTEM

Robust quality management system established through co-work with SAMSUNG, HKMC, Japan & US Customer + HKMC 5 Star (Quality system)

FACTORY SYSTEM. ERP. MES. PLM SYSTEM FULLY ESTABLISHED







ERP (Enterprise Resource Planning) MES (Manufacturing Execution System) PLM (Product Lifecycle Management)

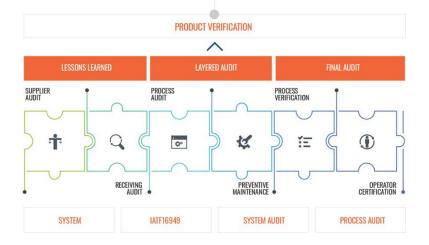
OHSAS18001

FACTORY CERTIFICATES

IATF16949 ISO14001 ISO45001

ISO26262

DEVELOPMENT / PRODUCTION QUALITY MANAGEMENT PROCESS



GLOBAL NETWORK - ON-TIME DELIVERY



Factory/R&D	Korea(Seoul), Vietnam(Hanoi)			
Sales office	Korea(Seoul), Vietnam(Hanoi), China(Shanghai), Japan, Taiwan			
Cost competitiveness	Factory located in bonded area	Standard laboring day	rs in Vietnam : 6days a week & Low laboring cost	
Labor friendly factory environment	No laboring dispute since establishment of Vietnam Factory [2013 ~ now]			
	"Excellent enterprise award for labor environment"		MES System	
Logistics advantages	Through FTA, can be shipped any country without worrying (US / CN / EU / AU / Pacific, etc.)			
	Vietnam-US tariff agreement -> (Cheap tariff due to TPP contract)			
	Fast custom clearance : 1~2days earlier custom clearance than others(Factory located in bonded area)			

Enough space in MCNEX's 3rd Vietnam Factory for "New project & New customer"

VARIOUS EXPERIENCE OF IMAGE SOLUTION TECHNOLOGY

Co-work with HKMC for ADAS camera system	Co-work with Microsoft for stereo camera development for AR, VR application
Selected as a standard module of iris recognition ca	amera system into Qualcomm AP chip
Development of camera system for ADAS application	on with TI, NXP & Socio Next AP
Co-develop with Corephotonics for front camera	Camera module development for Autonomous driving level 3 / Level 4
18years of experience in the field of camera module	e: Single / Dual / Tri-Focal / Quadruple
Abundant experience of government project for adv	ranced technology









SOCIAL RESPONSIBILITY MANAGEMENT

SOCIAL RESPONSIBILITY MANAGEMENT

In order to become a leading technology innovation company of the future, MCNEX will practice sustainable management based on friendship and trust with all our stakeholders and continue to fulfill corporate social responsibility by maximizing corporate value through ESG management.

MCNEX will set Environment, Social, and Governance as major driving areas and promote ESG strengthening measures and strategies throughout the business.

SUSTAINABLE DEVELOPMENT WITH ALL STAKEHOLDERS











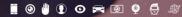


CUSTOMER-ORIENTED MUTUAL GROWTH

THE INVISIBLE CORE TECHNOLOGY OF **MCNEX**

"THE INVISIBLE CORE TECHNOLOGY IS CLOSED TO OUR LIFE."

The invisible core technology of MCNEX is unseen but to turn everyone's imagination into reality, is always closed to our life every time and everywhere













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