

Made in Korea

YOUR CAMERA
MODULE SOLUTION
PARTNER

SOMO VISION VISION FOR BETTER LIFE

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SOMO VISION

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SOMO SV

A MEMBER OF SOMO GROUP

About SOMO VISION

YOUR CAMERA MODULE SOLUTION PARTNER



Founded in 2013 in South Korea, SOMO VISION is a global Camera Module manufacturer and a member of SOMO Group(founded in 1968). We have capabilities from lens design to production of complete camera module in house and are focusing on automotive camera applications such as SVM, RVC, ADAS, DMS, CMS...etc. Furthermore, we have capability to design and manufacture long wave infra-red lenses.

Location

- HQ : Seoul, South Korea
- Factory : 1st factory in Vietnam, 2nd factory in South Korea

Products

- Camera Module(including lens) for Automotive, Security...etc.
- Infra-red Lens for military, commercial applications...etc.



Certificates



ISO 9001

ISO 14001

IATF 16949

Why SOMO as your Camera Module partner?

- Finance stability supported by SOMO Group of 51-year-old history
- Competitiveness of manufacturing costs : Factory in Vietnam
- R&D power : Long experience(Average of more than 8 years) in Automotive(OEM)
- Capability from lens design to production of complete camera module

Automotive

	Photo	Parameter	Specifications
ADAS		Part No.	HD Front Camera
		Image Sensor	On-semi_AR0132AT_1/3" RCCC
		Resolution	1280(H) x 960(V)
		Frame Rate	45Fps @ Full
		Output Format	Parallel_Raw 12Bit
		F No.	1.6
		FOV	52° (H) / 38.4° (V) / 66° (D)
Guaranteed Operating Temp.	-40°C ~ +85°C		
Size(mm)	52 x 16 x 22.8		
CMS		Part No.	HD CMS Camera
		Image Sensor	Omnivision_OV10640_1/2.56"
		Resolution	1280(H) x 1080(V)
		Frame Rate	60Fps @ Full
		Output Format	FPD-Link III Serializer POC
		F No.	2.1
		FOV	54° (H) / 45° (V) / 71° (D)
Guaranteed Operating Temp.	-40°C ~ +85°C		
Size(mm)	37.2 x 23.3 x 38.3		
CMS		Part No.	FHD CMS Camera
		Image Sensor	On-semi_AR0230AT_1/2.7" + AP0202AT
		Resolution	1280(H) x 1080(V)
		Frame Rate	30Fps @ Full
		Output Format	GMSL Serializer STP
		F No.	2.0
		FOV	40° (H) / 23° (V) / 46° (D)
Guaranteed Operating Temp.	-40°C ~ +85°C		
Size(mm)	26 x 26 x 61.35		
Front View		Part No.	HD Front Camera
		Image Sensor	On-semi_AR0132AT_1/3" + AP0102AT
		Resolution	1280(H) x 960(V)
		Frame Rate	30fps @ 720p
		Output Format	Parallel_YUV422 8Bit
		F No.	1.6
		FOV	34° (H) / 25° (V) / 43° (D)
Guaranteed Operating Temp.	-40°C ~ +85°C		
Size(mm)	49.7 x 20 x 22.8		
Front View		Part No.	FHD Front Camera
		Image Sensor	S.LSI_S5K3B5_1/2.75"
		Resolution	1920(H) x 1080(V)
		Frame Rate	90Fps @ 2.0Mp
		Output Format	FPD-Link III Serializer POC
		F No.	2.1
		FOV	105° (H) / 55.2° (V) / 127.4° (D)
Guaranteed Operating Temp.	-40°C ~ +85°C		
Size(mm)	27 x 27 x 42.4		
SVM		Part No.	HD SVM Camera
		Image Sensor	Sony_ISX016_1/4"
		Resolution	1280(H) x 720(V)
		Frame Rate	30fps @ 720p
		Output Format	TVI
		F No.	2.0
		FOV	196° (H) / 147° (V) / 205° (D)
Guaranteed Operating Temp.	-40°C ~ +85°C		
Size(mm)	23 x 23 x 38.67		

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	Photo	Parameter	Specifications
SVM		Part No.	HD SVM Camera
		Image Sensor	Aptina_AR0140AT_1/4"
		Resolution	1280(H) x 720(V)
		Frame Rate	30fps @ 720p
		Output Format	YUV422 8bit, 10bit, 16bit
		F No.	2.0
		FOV	190°(H) / 124°(V) / 212°(D)
		Guaranteed Operating Temp.	-40°C ~ +85°C
	Size(mm)	23.0 x 23.0 x 39.9	
SVM		Part No.	HD SVM Camera
		Image Sensor	S.LSL_S5K4A1_1/3.8" + GW4200
		Resolution	1280(H) x 720(V)
		Frame Rate	30fps @ 720p
		Output Format	GMSL Serializer COAX
		F No.	2.0
		FOV	190°(H) / 138°(V) / 210°(D)
		Guaranteed Operating Temp.	-40°C ~ +85°C
	Size(mm)	28 x 30.2 x 42.4	
Rear View		Part No.	HD Rear Camera
		Image Sensor	On-semi_AR0140AT_1/4" + AP0100AT
		Resolution	1280(H) x 720(V)
		Frame Rate	30fps @ 720p
		Output Format	FPD-Link III Serializer COAX
		F No.	2.4
		FOV	137°(H) / 102.2°(V) / 174°(D)
		Guaranteed Operating Temp.	-40°C ~ +85°C
	Size(mm)	26.9 x 27 x 46.5	
Rear View		Part No.	VGA Rear Camera
		Image Sensor	On-semi_LASX340AT_1/4"
		Resolution	720(H) x 480(V)
		Frame Rate	60 Fields/sec Interlaced
		Output Format	NTSC
		F No.	2.2
		FOV	143.6°(H) / 106.1°(V) / 186.6°(D)
		Guaranteed Operating Temp.	-40°C ~ +85°C
	Size(mm)	23 x 23 x 33.79	
Rear View		Part No.	HD Rear Camera
		Image Sensor	Sony_ISX016_1/4"
		Resolution	1280(H) x 720(V)
		Frame Rate	30fps @ 720p
		Output Format	TVI
		F No.	2.0
		FOV	141°(H) / 90.1°(V) / 168°(D)
		Guaranteed Operating Temp.	-40°C ~ +85°C
	Size(mm)	23 x 23 x 40.94	
Rear View		Part No.	VGA Rear Camera
		Image Sensor	On-semi_ASX344AT_1/4"
		Resolution	720(H) x 480(V)
		Frame Rate	60 Fields/sec Interlaced
		Output Format	NTSC
		F No.	2.0
		FOV	130.3°(H) / 103.1°(V) / 160°(D)
		Guaranteed Operating Temp.	-40°C ~ +85°C
	Size(mm)	23.9 x 25.9 x 40.3	

Dash Cam, IoT ...etc.

	Photo	Parameter	Specifications
12M (360Deg.)		Part No.	SV-TD-ACN160
		Image Sensor	Omnivision_OV16825_1/2.3"
		Resolution	4608(H) x 3456(V) or 3456(H) x 3456(V)_Cropping
		Frame Rate	24fps @ 16M(4:3) or 12M(1:1), MIPI 4 lane
		Interface / Communication	MIPI 4Lane, RGB Bayer / I2C
		F No.	2.5
		FOV	240°(H) / 240°(V) / 240°(D)
		Guaranteed Operating Temp.	-30°C ~ +70°C
	Size(mm)	42.73 X 56.74 X 24.1	
12M(4K)		Part No.	SV-LEA1-AC1205
		Image Sensor	Sony_IMX377CQT_1/2.3"
		Resolution	4K(4096 x 2196)_Cropping or 12M(4:3 Ratio)
		Frame Rate	35fps @ 4000 x 3000
		Interface / Communication	MIPI 4Lane, RGB Bayer / I2C
		F No.	2.6
		FOV	113.6°(H) / 82.6°(V) / 149.8°(D)
		Guaranteed Operating Temp.	-10°C ~ +75°C
	Size(mm)	25 X 34 X 18.77	
QHD		Part No.	SV-CTB21-BF050N
		Image Sensor	Omnivision_OV5653_1/3.2"
		Resolution	2560(H) x 1440(V)_Cropping
		Frame Rate	15fps @ 2560(H) x 1440(V)
		Interface / Communication	10 bit parallel, RGB Bayer / I2C
		F No.	2.5
		FOV	80°(H) / 50°(V) / 124°(D)
		Guaranteed Operating Temp.	-30°C ~ +70°C
	Size(mm)	17 X 26.8 X 20.1	
QHD		Part No.	SV-CTB34-BF050S
		Image Sensor	Sony_IMX335LQN-C_1/2.8"
		Resolution	2560(H) x 1440(V)_Cropping
		Frame Rate	60fps @ 2560(H) x 1440(V)
		Interface / Communication	MIPI 2Lane, RGB Bayer / I2C
		F No.	2.0
		FOV	105°(H) / 55°(V) / 126°(D)
		Guaranteed Operating Temp.	-30°C ~ +85°C
	Size(mm)	17 X 26.8 X 20.1	
QHD		Part No.	SV-ITB5-BF053S
		Image Sensor	Sony_IMX326LQC-C_1/2.9"
		Resolution	2560(H) x 1440(V)_Cropping
		Frame Rate	Max 60fps @ 2560(H) x 1440(V)
		Interface / Communication	MIPI 4Lane, RGB Bayer / I2C
		F No.	2.0
		View of Angle(H/V/D)	100.7°(H) / 54.8°(V) / 125.3°(D)
		Guaranteed Operating Temp.	-30°C ~ +75°C
	Size(mm)	18.5 X 18.5 X 18.78	
FHD		Part No.	SV-CTB33-BF020S
		Image Sensor	Sony_IMX327LQR-C_1/2.8"
		Resolution	1920(H) x 1080(V)
		Frame Rate	Max 60fps @ 1080P
		Interface / Communication	MIPI 2Lane, RGB Bayer / I2C
		F No.	2.0
		FOV	105°(H) / 55°(V) / 126°(D)
		Guaranteed Operating Temp.	-30°C ~ +85°C
	Size(mm)	17 X 26.8 X 18.88	
FHD		Part No.	SV-HHB6-BF020A
		Image Sensor	Aptina_AR0237_PLCC_1/2.7"
		Resolution	1920(H) x 1080(V)
		Frame Rate	Max 60fps @ 1080P, Linear HiSPI
		Interface / Communication	HiSPI(HiVcm) 2Lane, RGB Bayer / I2C
		F No.	2.0
		FOV	115.1°(H) / 58.3°(V) / 145.6°(D)
		Guaranteed Operating Temp.	-30°C ~ +85°C
	Size(mm)	22 X 27 X 22.89	






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	Photo	Parameter	Specifications
FHD		Part No.	SV-QRB1-BF020S
		Image Sensor	Sony_IMX291_1/2.8"
		Resolution	1920(H) x 1080(V)
		Frame Rate	30fps @ 1080P
		Interface / Communication	10 bit parallel, RGB Bayer / I2C
		F No.	2.0
		FOV	115.8° (H) / 60.2° (V) / 141.3° (D)
		Guaranteed Operating Temp.	-10°C ~ +60°C
	Size(mm)	18 X 26 X 18.78	
Stand-alone type 8M		Part No.	SV-SSE1-ET080S
		Image Sensor	Sony_IMX179_PLCC_1/3.2"
		Resolution	3280(H) x 2464(V)
		Frame Rate	15fps @ 3264 x 2448, 30fps @ FHD
		Interface / Communication	USB2.0, YUV422 / CAM Set: Stand-alone, Sensor: I2C
		F No.	2.2
		FOV	125.0° (H) / 94.77° (V) / 160.98° (D)
		Guaranteed Operating Temp.	-30°C ~ +75°C
	Size(mm)	60 X 22 X 16.95	
Stand-alone type FHD		Part No.	SV-CTB24-BR020SN
		Image Sensor	Sony_IMX322_1/2.9"
		Resolution	1920(H) x 1080(V)
		Frame Rate	30fps @ 1080P
		Interface / Communication	FHD-Analog(AHD), BT656 / CAM Set: Stand-alone, Sensor: I2C
		F No.	2.2
		FOV	107.5° (H) / 56.1° (V) / 130.4° (D)
		Guaranteed Operating Temp.	-30°C ~ +75°C
	Size(mm)	28.5 X 30 X 21.23	
Stand-alone type FHD		Part No.	SV-CTB27(S)-BR020SN
		Image Sensor	Sony_IMX307(327)_1/2.9"
		Resolution	1920(H) x 1080(V)
		Frame Rate	30fps @ 1080P
		Interface / Communication	FHD-Analog(AHD), BT656 / CAM Set: Stand-alone, Sensor: I2C
		F No.	2.0
		FOV	114° (H) / 61° (V) / 141° (D)
		Guaranteed Operating Temp.	-30°C ~ +75°C
	Size(mm)	30 X 30 X 19.04	
Stand-alone type HD		Part No.	SV-SMB16 Series
		Image Sensor	Clairpixel_X11_1/4"
		Resolution	1280(H) x 720(V)
		Frame Rate	30fps @ 720P
		Interface / Communication	HD-Analog(AHD), BT656 / CAM Set: Stand-alone, Sensor: I2C
		F No.	2.0
		FOV	97° (H) / 60° (V) / 122° (D)
		Guaranteed Operating Temp.	-40 ~ +85°C
	Size(mm)	26 phi X 51.1	
VGA		Part No.	SV-RSS1-SE003N
		Image Sensor	Omnivision_OV7740_1/5"
		Resolution	640(H) x 480(V)
		Frame Rate	Max 60fps @ VGA
		Interface / Communication	8 bit parallel, YUV 8 Bit / I2C
		F No.	2.0
		FOV	103.6° (H) / 77.7° (V) / 129° (D)
		Guaranteed Operating Temp.	-30°C ~ +75°C
	Size(mm)	8 X 8.5 X 10.23	

Long Wave Infra-red Lens

	Photo	Parameter	Specifications
VGA		Part No.	SV-FU13V02
		Image Sensor	640X480, 17um pixel
		Resolution	640(H) x 480(V)
		EFL	25mm
		HFOV	24.22
		BFL	6.45mm
		F No.	1.25
		Distortion	1.4%
		Mount	M25 X P0.5
		Size	Φ30.4 X 30.6mm
	Barrel Material	Aluminum	
80P		Part No.	SV-FU47C02
		Image Sensor	80X80, 34um pixel
		Resolution	80(H) x 80(V)
		EFL	6.715mm
		HFOV	21
		BFL	8.73mm
		F No.	1.2
		Distortion	-3.66%
		Mount	M20 X P0.5
		Size	Φ21 X 11.5mm
	Barrel Material	Aluminum	
80P		Part No.	SV-FU47C06
		Image Sensor	80X80, 34um pixel
		Resolution	80(H) x 80(V)
		EFL	2.71mm
		HFOV	58
		BFL	3.95mm
		F No.	1.4
		Distortion	-22.3%
		Mount	M17 X P0.5
		Size	Φ19 X 9mm
	Barrel Material	Aluminum	
80P		Part No.	SV-FU47C09
		Image Sensor	80X80, 34um pixel
		Resolution	80(H) x 80(V)
		EFL	1.8mm
		HFOV	92
		BFL	2.53mm
		F No.	1.3
		Distortion	-47.1%
		Mount	M10 X P0.5
		Size	M10 X 3.6mm
	Barrel Material	Plastic	
80P		Part No.	SV-FU47C12
		Image Sensor	80X80, 34um pixel
		Resolution	80(H) x 80(V)
		EFL	1.48mm
		HFOV	118
		BFL	1.815mm
		F No.	1.3
		Distortion	-59.2%
		Mount	M10 X P0.5
		Size	M10 X 2.8mm
	Barrel Material	Plastic	