

SG-UCM8003NKL

- 4K/12Megapixel 3.5x Zoom NDAA Network UAV Camera Module



1. Features

- > 1/2.3" Sony Exmor CMOS Sensor.
- > Powerful 3.5x optical zoom (3.85~13.4mm).
- > Max. 12MP(4000×3000) Resolution.
- > Support Electronic Defog and EIS.
- > Dual video stream output, support Network.
- > Support various OSD.
- > Intelligent tracking function based on optical flow.
- > Support flight log such as longitude, latitude, height.
- > Support MP4 file recording and capture.
- > **With NOVATEK high performance chip.**

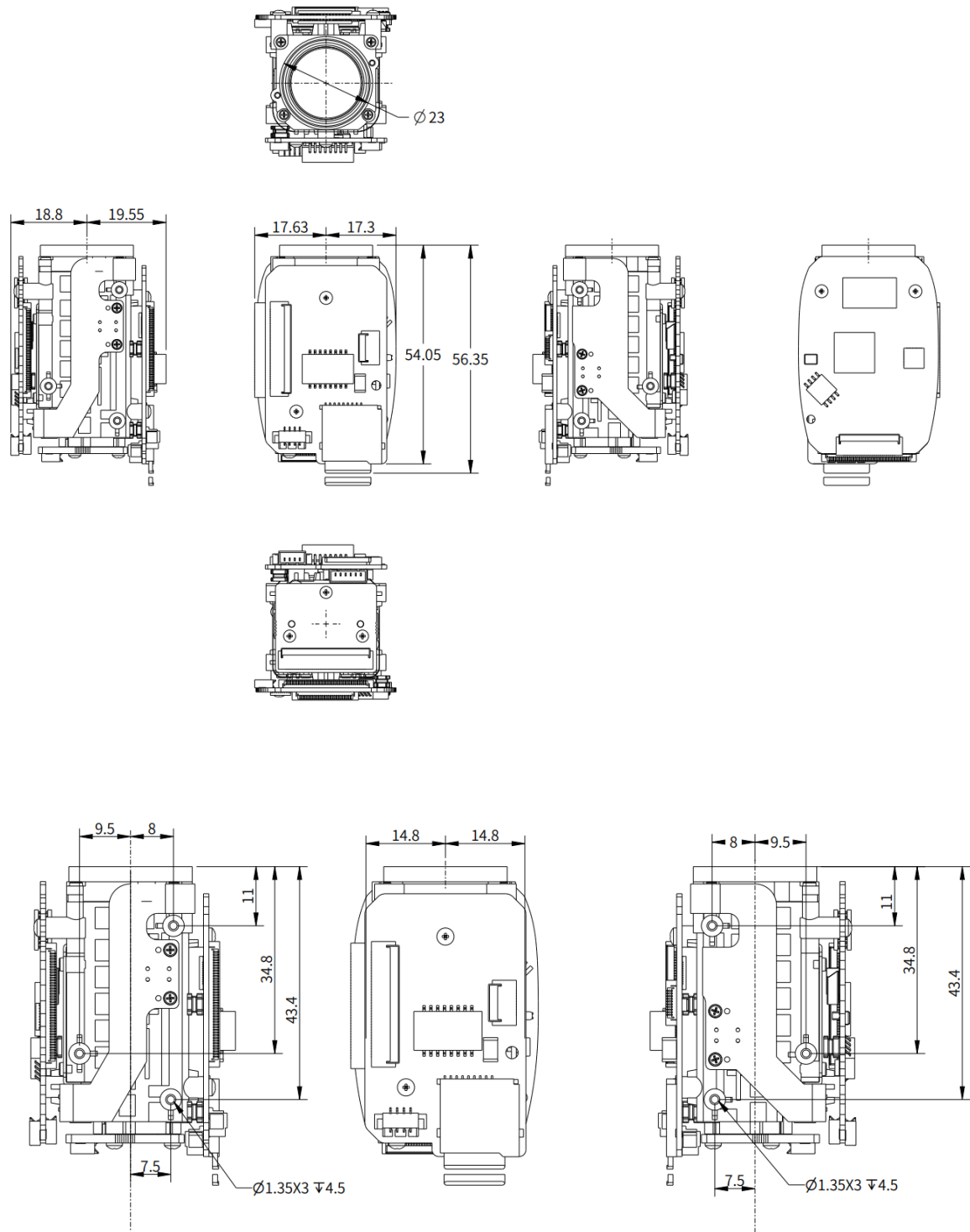
2. Specification

Model		SG-UCM8003NKL			
Sensor	Image Sensor	1/2.3" Sony Starvis progressive scan CMOS			
	Effective Pixels	Approx. 12.47 Megapixel			
Lens	Focal Length	3.85mm~13.4mm, 3.5x Optical Zoom			
	Aperture	F2.4~F5.03			
	Field of View	H: 77.6°~25.9°			
	Close Focus Distance	1m~2m (Wide~Tele)			
	Zoom Speed	Approx. 2.5s (Optical Wide~Tele)			
	DORI Distance (Human)	Detect	Observe	Recognize	Identify
		346m	137m	69m	34m

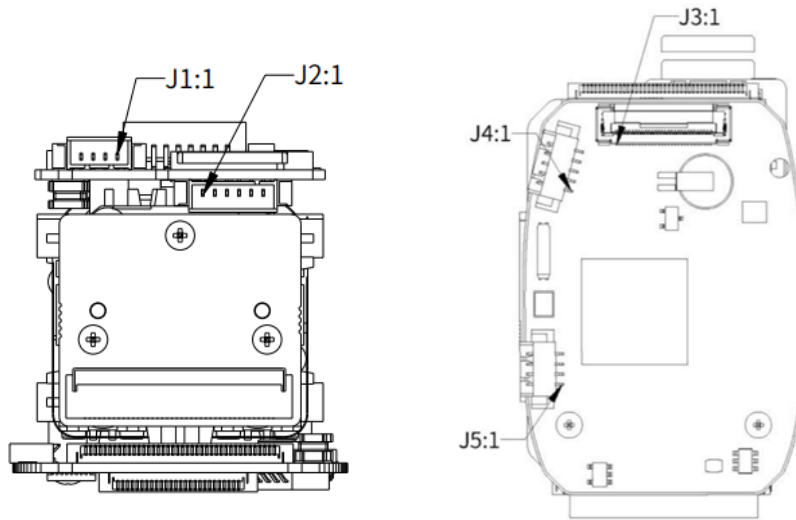
Video	Compression	H.265/H.264/H.264H/MJPEG
	Streaming Capability	3 streams
	Resolution	50Hz: 10fps@12MP(4000×3000), 25fps@8MP(3840×2160) 60Hz: 10fps@12MP(4000×3000), 30fps@8MP(3840×2160)
	Video Bit Rate	32kbps~16Mbps
	Audio	AAC / MP2L2
Network	Network Protocol	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour
	API	ONVIF, HTTP API, SDK
	Web Browser	IE, Edge, Firefox, Chrome
	User	Up to 20 users, 2 level: Administrator, User
	Storage	TF card, up to 1TB
	Multicast	Support
Upgrade		Support
General Events		Motion, Tamper, SD Card, Network
Function		Smart Tracking, Snapshot, Video recording, Flight log, GPS Information Overlay, etc.
S/N Ratio		≥55dB (AGC Off, Weight ON)
Minimum Illumination		Color: 0.01Lux/F2.4;
Noise Reduction		2D/3D
Exposure Mode		Auto, Shutter Priority, Gain Priority, Manual
Exposure Compensation		Support
Shutter Speed		1/3~1/30000s
BLC		Support
HLC		Support
WDR		Support
White Balance		Auto, Manual, Indoor, Outdoor, ATW, Sodium lamp, Street lamp, Natural, One Push
Day/Night		Electrical, ICR(Auto/Manual)
Focus Mode		Auto, Manual, Semi Auto, Fast Auto, Fast Semi Auto, One Push AF
Electronic Defog		Support
Flip		Support
EIS		Support
Digital Zoom		16x
External Control		TTL, Compatible with VISCA protocols
Interface		4pin Ethernet port, 6pin Power & UART port, 5pin Audio port.
Communication Protocol		SONY VISCA, Pelco D/P
Operating Conditions		-30°C~+60°C/20% to 80%RH
Storage Conditions		-40°C~+70°C/20% to 95%RH
Power Supply		DC 12V

Power Consumption	Static power: 3.5W, Sports power: 4.5W
Dimensions(L*W*H)	56.3mm*35mm*39mm
Weight	55g

3. Dimension



4. Interface Definition



Network Interface

Type	PIN Number	PIN Name	Description
J1_6PIN Internet Interface (A1251-04A 1.25MM)	1	ETHRX-	Internet RX-
	2	ETHRX+	Internet RX+
	3	ETHTX-	Internet TX-
	4	ETHTX+	Internet TX+
	5	GND	GND
	6	DC_IN	DC12V±10%
J2_6PIN Power & UART Interface (A1251-06A 1.25MM)	1	DC_IN	DC12V±10%
	2	GND	GND
	3	RXD1	TTL 3.3V, Pelco Protocol
	4	TXD1	TTL 3.3V, Pelco Protocol
	5	RXD0	TTL 3.3V, Visca Protocol
	6	TXD0	TTL 3.3V, Visca Protocol
J4_5pin Audio Interface (A125105A 12.5MM)	1	AUDIO_OUT	Audio Out (Line Out)
	2	GND	GND
	3	AUDIO_IN	Audio In (Line In)
	4	GND	GND
	5	NC	NC
J5:1_4pin USB Interface (A1251-04A 1.25MM)	1	+VDD_USB	+VDD_USB
	2	USB_DP	Differential data+
	3	USB_DM	Differential data-
	4	GND	GND

Hangzhou Savgood Technology Co., Ltd.

Rm. 1201, Xincheng Fazhan Building #1, No. 406 Xintiandi Street,
Gongshu District, Hangzhou City, 310022, China
Tel: +86 - (571) 8803 8121
Email: sales@savgood.com
<http://www.savgood.com>
<http://www.savgoodtech.com>

*Design and specifications are subject to change without prior notification.
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