

# KLIS MD-4x4

## 16M multi-sensor Surround view IP Camera



### FEATURES

- **Optimized Multiple Profile Streaming**  
Up to 12 streams are able to be set by different setting parameters such as res. video rate and frame rate to be serviced for different purposes at 1440p environments from the 1 ports of Gigabit Ethernet port. Also concurrent max connections support up to 16 sessions simultaneously.
- **Independent ISP and Encoding block**  
Totally, up to 4 ISPs and Encodings provide the most suitable optimized scenes with any environments and real time frame rates up to 1440p x 4.
- **ROI (Region of Interest)**  
Gives efficient video rates with optimized video quality. Frequently moving areas are keeping much better quality. On the other hands, less moving areas are dropping video rates.
- **Smart AVC**  
Efficiently, frame rate priority & Quality priority feature give the most fluid data stream at low bandwidth from built-in Smart AVC(Advanced Video Coding).
- **Advanced built in ISP**  
3D-DNR, Adjustable 3A features, Defect Pixel Correction, WDR, HDR, lens correction and even more advanced ISP functions are provided from built in ISP.
- **Fluid integration way**  
The latest Onvif profile is optimized to have interoperability with any kind of purpose. Well-structured CGI-API plug in gives even more detailed functions to be integrated to VMS.
- **Double Scan sensor with advanced built in ISP**  
Double scan sensor provides up to 60fps at 1440p resolution (Encoding max performance 1440p 30fps). It gives long exposure and short exposure combined as real WDR with real time frame rate 1440psolution.
- **Easy way to install with module separation structure**  
Sensor block with lens built-in modules are highly efficient way to cover whatever types of scene circumstances at the installation site from 2.8mm, 4mm and 6mm with perfect focus fitting.

## TECHNICAL SPECIFICATIONS

CAMERA	
Image Sensor	1/3" 4.0M CMOS x 4ea
Total Pixels	2688(H) X 1520(V) per one sensor
Focal Length	2.8mm, F1.8 / 4mm, 6mm, 8mm F2.0
Field Angle (FOV)	D : 104°, H : 90°, V : 55° (2.8mm) D : 101°, H : 81°, V : 43° (4mm) D : 59°, H : 51°, V : 29° (6mm)
Shutter Speed	Auto/Manual (1/30 ~ 1/32000), Anti-Flicker, Slow Shutter (1~1/5,1/7.5, 1/10)
Min. Illumination	0.41Lux (F2.0)
IR LEDs	None
IR distance	N/A
Dynamic Range Conf.	WDR (2x, 3x)
Dynamic Range	120dB or above
S/N Ratio	50dB
D&N	TDN (True Day & Night) → only for IR version
Digital Noise Reduction	3D-DNR
Privacy Mask Support	16 Programmable Zone per each sensor
AGC	Auto
Other Image Processing	Configurable Exposure, White Balance, Sharpness
ENCODER VIDEO/AUDIO	
Video Compression	H.264, MJPEG
H.264 Profile	BP / MP / HP
Max Resolution	2560 X 1440 x 4
Multiple Profile Streaming Performance	1440p30 + 480p/30 with H.265 + MJPEG(Max SVGA) x 4 up to 12 sessions Max. Concurrent connections up to 16
Video Bit rate	100Kbps ~ 10Mbps, Multi-rate for Preview and Recording
Support Res.	H.264: 1440p/1080p/720p/VGA/D1/CIF MJPEG: 800x600/VGA/768x432/D1/CIF
Bitrate Control	Multi Streaming CBR/VBR at H.264 (Controllable frame rate and Bandwidth)
Audio Compression	G.711
Edge Storage	Micro SD / SDHC / SDXC x 4
Special Feature	Smart AVC, Dynamic ROI
SECURITY AND NETWORK	
Network Protocol	IPv4/IPv6, Zero config (Auto IP), ONVIF, TCP/IP, UDP, RTP(UDP/TCP), RTSP, NTP, HTTP,HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2c/v3 (MIB-2)
Security	HTTPS (SSL), IP filtering, 802.1x, Digest Authentication (ID/PW)
SIP/VoIP Support	N/A
Plug In	Onvif Profile S, CGI API
EXTERNAL IN/OUT	
Audio In / Out	1/1 ( Master in/out)
Alarm In /Out	1/1
Video Output (2nd Video Out)	1 [CVBS 1.0V p-p (75Ω)], 4:3 aspect ratio - Sensors selectable
Event Trigger	Motion, Alarm, Network Disconnections, Temperature critical
Pre-Post Recording x 4	Pre: 1~5 sec. - Post: 1~240 sec.
Event Notification	FTP, e-mail, SD card
Ethernet	RJ45 (10/100BASE-T)
GENERAL	
Power	DC12V - POE IEEE 802.3at
Power Consumption	DC12V In : Max 18W
Temperature	-20°C ~ 50°C
Humidity	10~90% RH (non-condensing)
Housing	Aluminum Die-casting
Dimensions (D x H)	Ø190 x 90 mm
Weight	2.0 kg
Compliance	FCC, CE, ROHS, IP66

All specifications subject to change without notice



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