

## DATASHEET

# VK2-HDX23IR-SMW

DISCRETE 23:1 PTZ DOME WITH IR ILLUMINATION  
& 4 ALARM INPUTS



**VK2**

**STARVIS**



The VK2-HDX23IR-SMW is a discreet PTZ dome offering 23:1 optical zoom, full HD 1080p/60ips resolution and 60M IR illumination. In addition the camera can offer 4 individual configurable video streams in either H264, H265 or MJPEG formats.

The dome uses the Sony STARVIS CMOS sensor for exceptional low light performance, and when combined with the built in IR illumination, provides exceptional quality images both day and night.

Additional features include True WDR (120dB), 4 Alarm inputs, 2 way audio and the ability to record directly to a Micro SD memory card.

The camera is ONVIF compliant and fully compatible with Vista's range of NVRs and VIPER Central control software.

### Key Features:

#### Full HD Recording

The dome delivers Full HD resolution images at up to 60 images per second

#### 60m IR illumination

Ensures excellent quality images 24 hour per day

#### H265 / H264 Quad streaming

The Dome can stream 4 individually configured video streams in various formats

#### 4 Alarm inputs

Allows for increased system automation

#### True WDR (120dB)

Allows detail to be seen even in scenes of high contrast

## TECHNICAL SPECIFICATION

Model	VK2-HD231R-SM (HPoE, 12VDC)	
<b>IMAGE</b>		
Lens	Optical Zoom 23X, 5mm ~ 117mm	
Angle of View	56.6° ~ 3° (H)	
Image Sensor	1/2.8" Sony STARVIS CMOS sensor	
Min. Illumination	Colour: 0.35 Lux @ 50IRE, BW: 0 Lux (IR LED On)	
Scanning Mode	Progressive Scan	
Wide Dynamic Range	True WDR	
Day and Night Mode	True D/N (Auto, Day, Night)	
Noise Reduction	2DNR, 3DNR	
Digital Zoom	Yes (ROI)	
Exposure Control	Auto, Iris Priority	
White Balance Control	Auto, Manual	
Metering Mode	Spot, Center, Average	
Image Effect	Flip, Defog	
Flicker Free Mode	50Hz, 60Hz	
Shutter Speed	Auto (1/10,000 ~ 1sec)	
IR Illuminator	Quantity	4 IR LEDs
	Distance	Up to 60m
<b>VIDEO/AUDIO</b>		
Compression	H.264 (Baseline, Main, High Profile), H.265 (Main Profile), MJPEG	
Bitrate Control	CBR, CVBR	
Resolution	1920x1080, 1440x1080, 1280x1024/720, 1024x768, 800x600/480, D1, 640x480, 400x240, CIF	
Frame Rate	Max. 25fps/30fps	
Streaming	Quad Stream (H.264/H.265 x 3, MJPEG x 1)	
Audio Compression	G.711	
Audio Streaming	2 Way	
<b>PTZ FUNCTION</b>		
Pan Range	360° Endless	
Pan Speed	Max. 380°/sec (Preset)	
Tilt Range	-5° ~ 90°	
Tilt Speed	Max. 380°/sec (Preset)	
Preset	256	
Tour	8	
Pattern	8	
Home Function	Yes	
<b>SYSTEM</b>		
Video Contents Analysis	Tempering, iVMD, Intrusion detector	
Motion Detection Area	16 Programmable Areas (Include Area 8, Exclude Area 8)	
Privacy Mask Zone	16 Programmable Zones	
Hi-Stream (Smart Codec)	8 Regions, Quality setup, Non-ROI fps setup	
FTP Uploading	MJPEG	
Event Notification	E-mail, FTP, XML Notification, Audio Alert, Notification Server	
Audio Alert	User-Defined 3 Audio files	
Login Authority	Administrator, Operator, Guest	
Event Buffering	FTP	Pre : 30sec, Post : 30sec
	SD Record	Pre : 10sec, Post : 60sec
Manual Trigger	4 Programmable Triggers	
Security	Multi User Authority, IP Filtering, HTTPS, SSL	
Network Time Sync	NTP Server, Synchronized Computer, Manual	
SD Recording Mode	Event, Continuous	
<b>NETWORK</b>		
Protocols	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour	
Client Software	Web, SmartManager, Client S/W, Mobile S/W	
Max. User Connection	Live: 10 Users, Playback: 3 Users	
API Support	Open API, ONVIF Compliance	
Mobile Support	Android, iOS	
<b>EXTERNAL IN/OUT</b>		
Audio	1 Input, 1 Output (Terminal Block)	
Alarm	4 Inputs, 1 Output (Terminal Block)	
Ethernet	RJ-45 (10/100Base-T)	
u-SD Card	SDHC/SDXC	
<b>ENVIRONMENTAL</b>		
Operating Humidity	0 ~ 90% RH (Non-condensing)	
Operating Temperature	-10°C ~ +50°C	
Power Supply	HPoE, 12VDC	
Power Consumption	420mA (22W) @ HPoE, 1.8A (22W) @ 12VDC	
Dimensions	182.4mm (D) x 208.3mm (H)	
Net Weight	Approx. 2.8kg	
Ingress Protection	IP66	

## Models In This Range

**0392820**  
**VK2-HDX231R-SMW**

## Associated Products

**0815480**  
**VCW-EWMB**  
Stand alone Wall bracket

**0366950**  
**VDM-WMVRD**  
Wall mount bracket requires back box

**0366930**  
**VDM-WMJB**  
Back box for wall mount

**0457230**  
**VDM-ECMA**  
Corner mount bracket for back box

**0394210**  
**VDM-EPMWV**  
Pole mount adaptor to be used with back box

**0812220**  
**VRD-TMJB(W)**  
Swan neck tower mount

## PoE Switches

**0199470**  
**QSW16M**  
16 port PoE managed switch

**0766120**  
**QSW4**  
4 port PoE switch

**0766130**  
**QSW8**  
8 port PoE




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DS - VK2-HDX231R-SMW - Version 1

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