

## DATASHEET

# VK2-1080XNPR10Z

## VK2 ZOOM MODULE NUMBER PLATE RECOGNITION CAMERA

# VK2



# STARVIS



The VK2-1080XNPR10Z has been designed specifically to catch images of vehicle number plates. It's 10x auto focussing zoom lens can be remotely adjusted to give the ideal field of view for each individual application.

The camera uses a combination of a fast shutter speed, IR pass filtering and LED IR illumination, to create a controlled scene environment. This allows the cameras to deliver a crisp image of the number plate both day and night, and overcomes the common problem of the bright light from the vehicles head lights obscuring the plate.

The camera can be used in conjunction with Vista's VANPC IP number plate recognition system or simply to record video footage of vehicles using Vista VIPER or QNVR recording platforms. It is also ONVIF S compliant so can be used on many 3rd party IP recording systems.

Whether the VK2-1080XNPR10Z is being used simply to record images of number plates onto a NVR, or if it is being used in conjunction with Vista VANPC IP number plate recognition software, this camera offers a very cost effective solution.

Factory set preset positions allow simple set up. From the cameras web page the installer simply needs to select one of the 13 pre-programmed positions for 3 to 15m read ranges. Each preset is set to view a 4m wide lane at the corresponding number of meters distant from the camera. (e.g. Preset 8 is used for a 8m range etc.)

### Key Features:

#### Read range of 15M

The IR illumination and angle of view is adjustable, allowing effective read range of between 3 and 15m ranges

#### Wide lane coverage

As the camera provides a Full HD stream, it is capable of covering a 4M wide lane

#### Factory set preset positions

These stored preset positions greatly simplify the set up and commissioning of the camera, preset no. 3 to 15 correspond with 3m to 15m ranges

#### Multi system compatibility

The camera can be used with Vista VANPC IP number plate recognitions system, or can be used as a standard camera recorded onto most ONVIF S based recording systems, such as VIPER

#### User adjustable

The user adjustable auto focusing zoom lens allows the camera's angle of view to be adjusted to suit each individual application

## TECHNICAL SPECIFICATION

Model		VK2-1080XNPR10Z
<b>IMAGE</b>		
Lens		5.1 - 51mm zoom lens
Angle of View		TBD
Image Sensor	Type	1/2.8" Sony STARVIS CMOS sensor
	Pixels	3096(H) x 2094(V)
Scanning Mode		Colour: 0.2 Lux, 50IRE BW: 0 Lux, 50IRE
Wide Dynamic Range		Progressive Scan
Noise Reduction		D-WDR (72dB)
Digital Zoom		True D/N (Auto, Day, Night)
Exposure Control		2DNR, 3DNR
White Balance Control		Yes (ROI)
Back Light Compensation		Auto
Image Effect		Auto, Incandescent, Fluorescent, Outdoor
Shutter Speed		Yes
IR Illuminator	Quantity	36 IR LEDs
	Angle	76°(H)
	Distance	20m
<b>VIDEO/AUDIO</b>		
Compression		H.264 (Baseline, Main, High Profile), MJPEG
Bitrate Control		CVBR, VBR
Resolution		1920x1080, 1280x1024, 1280x720/960, 704x480/576, 640x360/480, 320x240
Frame Rate		Max. 50fps/60fps
Streaming		50/60fps (Dual Stream: H.264 x 1, MJPEG x 1) 25/30fps (Triple Stream: H.264 x 2, MJPEG x 1)
Audio Compression		G.711
Audio Streaming		2 Way
<b>AUTO FOCUS</b>		
Focus System		Auto / One Push / Manual
Min. working distance		100mm (WIDE end), 1000mm (TELE end)
<b>SYSTEM</b>		
Factory set presets		13 preset zoom positions set up to give 4m wide view at meter intervals from 3 to 15m
Motion Detection Area		16 Programmable Areas (Include Area 8, Exclude Area 8)
Privacy Mask Zone		16
PTZ Preset		32
FTP Uploading		MJPEG
Event Notification		E-mail, FTP, Notification Server, XML Notification, Audio Alert, AIHM
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
Software Reset		Restart, Reset, Factory Default
<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>		
Video Composite Output		Yes (3.5pi Stereo Jack)
Audio		1 Input, 1 Output (Terminal Block)
Alarm		1 Input, 1 Output (Terminal Block)
Ethernet		RJ-45 (10/100Base-T)
u-SD Card		SDHC (Max. 32GB)
<b>ETC</b>		
Operating Humidity		0 ~ 90% RH (Non-condensing)
Operating Temperature		-30°C ~ +50°C
Power Supply		PoE(IEEE802.3at only), DC12V
Power Consumption		0.47A (22.6W) @ PoE, 1.6A (19.2W) @ 12VDC
Dimensions		272mm(W) x 85mm(H) X 100mm(D)
Net Weight		1,200g
Certification		CE RoHS2: 2011/65/EU

## Models In This Range

**0771280**  
**VK2-1080XNPR10Z**

## Associated Products

**0496990**  
**VCB-EPMA/B**  
Side pole mount adapter

**0747590**  
**UMBB**  
Universal mount back box

**0747600**  
**UMFP1**  
Face plate for UMBB

**0766120**  
**QSW4**  
4 Port PoE Switch

**0766130**  
**QSW8**  
8 Port PoE switch




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DS - VK2-1080XNPR10Z - Version 1

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