vista
TRUSTED
SECURITY
SOLUTIONS
Solutions
Guide
2020 EDITION

The Vista philosophy

WHO ARE VISTA?

Vista is a UK based, trusted manufacturer of Video Surveillance products. We have made it our mission to understand our customers' needs. Our CCTV security solutions offer innovative products, using the most powerful and stable technologies - wrapped up in a support environment to ensure your projects run smoothly.

We pride ourselves on creating a range of differentiated solutions, developed in alignment with customer feedback to help you to deliver in the ever-changing marketplace.

Vista don't just provide Video Surveillance products or send you a datasheet, we listen to your specific security requirements, work closely with you and your customers to advise you on the best approach.

By choosing Vista, you'll be working with a partner who stands by you and helps to resolve any challenges you experience.

VALUES & SERVICES

With over 30 years' experience in the Video Surveillance industry, we have made it our mission to understand your business. Everything Vista do is based around the values of listening, understanding, advising and supporting.

LISTENING

Vista don't just provide products. Before we offer any security solution, we listen to your specific requirements.

UNDERSTANDING

By choosing Vista, you'll be working with a partner that will stand by you every step of the way and help to resolve any issues by taking ownership of the solution. You'll benefit from our pre-configuration services, a 3 Year Advance Replacement as standard, Technical Support, along with Customer Services and Product Management teams to ensure that your project is a success.

ADVISING

Vista can advise you on the best approach tailored to your project – whether you're looking to make the most of your current analogue infrastructure or benefit from the advantages of IP video, or something else. We offer a differentiated product range reflecting the brand's depth of market understanding.

SUPPORTING

By choosing Vista, you'll be working with a partner who stands by you and helps to resolve any challenges you encounter. Vista will support you to ensure your suggested solution is suitable through technology days or demos at one of our two UK Demonstration Centres.

Overview

At Vista we focus on providing great quality products in a number of technology areas and, with the support of other industry leading brands, we can offer a complete tailored solution. The below diagram shows our core technologies, which are outlined throughout this brochure. The top section of the diagram highlights the fundamental parts of a solution, with Optio and VOLO offering other innovative technologies to meet specific project requirements.

Our Business Development Managers are here to support you and help prove the suitability of the proposed solution to your End Users via on-site demonstrations or with a trip to one of our Demonstration Centres.

Vista Brands:

HDA
High Definition Analogue Cameras

VK2
IP Cameras

VIPER HDA
High Definition Analogue Recorders

VIPER IP
IP Recorders

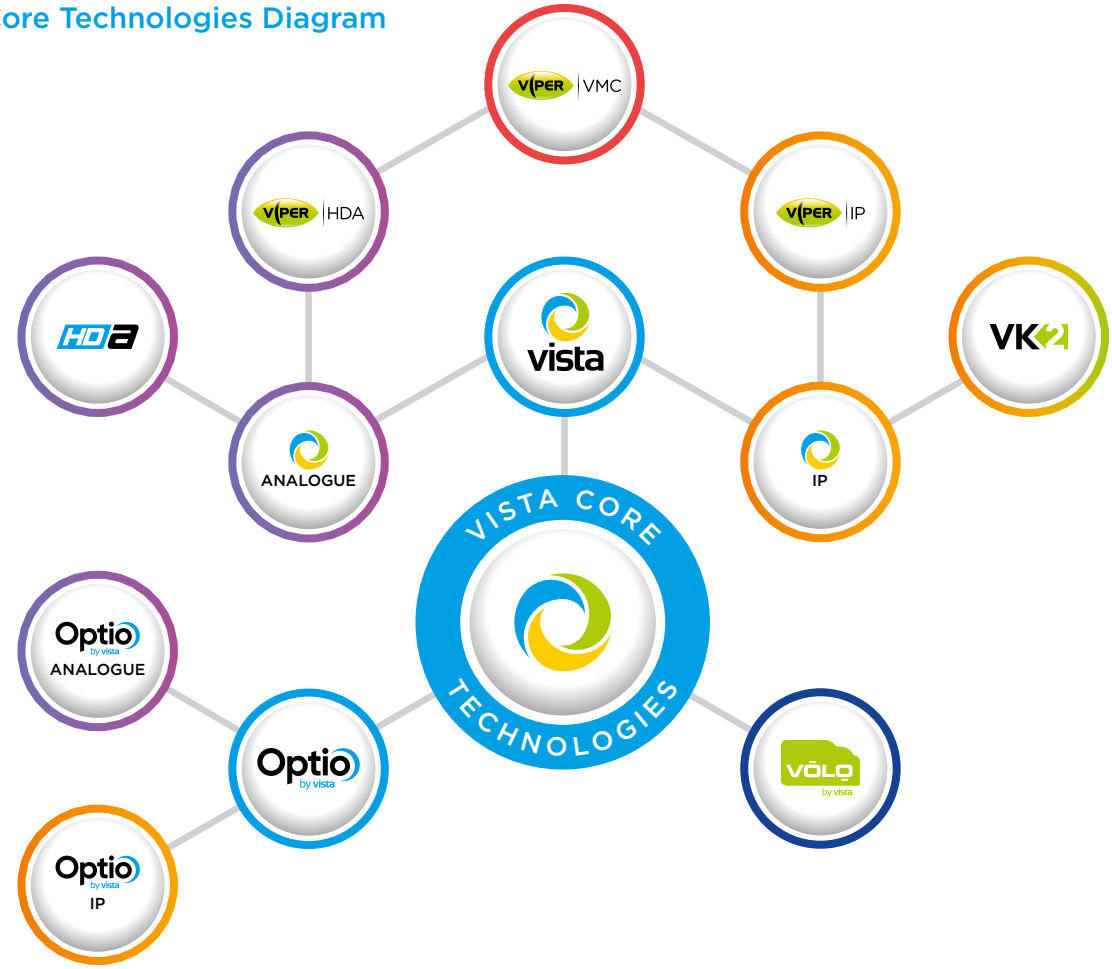
VIPER VMC
Matrix for HDA and IP

By Vista Brands:

Optio by vista
High Definition Analogue & IP Cameras & Recorders

VOLO by vista
Access Control

Vista Core Technologies Diagram



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VOC:
vista-cctv.com/about-vista-cctv/voice-of-customer

TWITTER:
@VistaCCTV

LINKEDIN:
Search for Vista CCTV

YOUTUBE:
Search for Vista CCTV

VIMEO:
Search for Vista CCTV

VISIT THE NEW VISTA WEBSITE: **vista-cctv.com**

Don't forget...

If you need help identifying the right solution for you, our Business Development team is here to help.

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Not sure what to do?

THERE'S NEVER BEEN A BETTER TIME TO TALK TO VISTA

With so many products and choices available, navigating the security market can be a real challenge. Vista has years of experience developing solutions to match the needs of installers and end-users alike.

If you want to find a cost-effective and scalable solution to address your security needs, why not talk to us now?

vista

LET'S TALK:

tel: **+44 (0) 118 912 5000**

email: **info@vista-cctv.com**

web: **vista-cctv.com**

The Vista Project Life Cycle

Providing an excellent customer experience is more than just delivering good products. We understand that providing support and advice at the right time is critical to your business. There are lots of ways we can help you throughout all phases of a project lifecycle, so why not talk to us?

Opportunity

Dedicated Business Development

Our Business Development Managers are here to listen, advise and support you during the opportunity identification phase of the project. By working closely with you during joint meetings we listen to your End Users and help propose various solutions to reassure them that their operational requirements will be met.

Demonstration Centres

We realise that when it comes to initially proposing video surveillance equipment to your customers, the hardest part is establishing the solution's actual performance. In many cases it needs more than just a datasheet. That's why we have invested in our Demonstration Centres, so we can help you win more opportunities through joint demonstrations and product trials.

Design

Comprehensive Offering

Whether you are on a coaxial infrastructure looking to move to High Definition Analogue, managing a hybrid system, or wanting to upgrade to an IP infrastructure.

Value Through Re-Engineering

By really listening to and understanding your needs, we can advise on different technology solutions. We can create value and save you money through reconfiguring the system or using alternative technologies from Vista. This can be supported by a proof of concept so your End Users can see how the system will operate.

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Procurement

Supplier Rationalisation

With an ever increasing number of products available it can be challenging and costly to find the right partner to support your business. Our comprehensive offering, supported by strategic relationships, can help you rationalise the number of suppliers you work with, saving you time and money.

Customised Project Pricing

Managing your costs over the lifespan of a project can sometimes be difficult. We understand the importance of avoiding any unforeseen costs so we collaborate with you to provide tailored project pricing, as well as ensuring our solutions are available as and when you need them.

Delivery

Inventory

We have made significant investments in our inventory to ensure we have the required solutions available to you. By working closely with you through the delivery phase we can better understand your installation schedules and mitigate any delays, ensuring your project roll out goes as smoothly as possible.

Bespoke Configuration Services

Our pre-configuration services can be tailored to your specific needs, helping minimise time on site and reducing risk as equipment is fully tested prior to delivery. We will unpack all the equipment, configure the video surveillance system, and re-pack it before shipping to site. Talk to us about your next project to discuss how we can help you.

Support

Advance Replacement

We understand the challenges you face once the system has been installed and this is why we offer a 3 Year Advance Replacement on Vista products and a 2 year Advance Replacement on Optio by Vista products. Our simple advance replacement process means we can help you manage any issues that do occur, minimising the impact for your End Users, and saving you time and money.

Strategic Partnerships

We work closely with selected technology partners and, if you experience any issue post installation, we will stand by you every step of the way. We'll take ownership of the solution by working with our partners to provide you with a resolution as quickly as possible.

Dedicated Tech Support

We provide you with dedicated technical support – both pre and post-sales. By choosing Vista, you'll be working with a partner who stands by you and helps to resolve any challenges you encounter.

LET'S TALK:

Email us directly:

email:
info@vista-cctv.com

Or call us:

tel:
+44 (0) 118 912 5000

Voice of Customer

Our 'Voice of Customer' (VoC) initiative supports our values of listening to and understanding our customers' requirements.

In a very crowded supplier landscape we see many manufacturers continually focusing on products, rather than really understanding your needs. The better we understand your challenges, the more effectively we can find ways to support your business and to make your engagement with us even more valuable.

The Voice of Customer web page allows you to get in touch directly with a member of the Vista team. This gives us the opportunity to provide answers to your queries, taking valuable feedback on board so we can improve our services, products and your experience with us.

Let's talk! We're here to listen.

Visit vista-cctv.com/about-vista-cctv/voice-of-customer

Vista Priority Partners

The Vista Priority Partners (VPP) Programme is available for a limited number of our key customers. These installers work closely with Vista to support and promote the brand and provide valuable feedback on what products are needed in the marketplace. In return, our VPPs receive exclusive support, training, and content ahead of the rest of the market.

DEMONSTRATION CENTRES

Situated in Berkshire and Greater Manchester, our Demonstration Centres contain the latest IP and analogue products from our differentiated ranges. The Centres showcase the flexibility and scalability of our solutions, and are ideal for End User demonstrations and product shoot-outs. They can also be used for training and generally keeping up to date with the latest technology developments.

You can come along for full training on any of our products or for a quick refresher on something specific that you would like our support with.

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Vista 3 Year Advance Replacement

3 YEAR ADVANCE REPLACEMENT for Vista* products

To help save you time and money on site we offer a 3 Year Advance Replacement on all Vista products.

How can you benefit from our 3 Year Advance Replacement?

- End user peace of mind – never be left without a working product on site
- Only one site visit – take out the faulty product and install the advance replacement product
- No time consuming or complicated returns procedures
- No waiting for products to be repaired – saves you time and money

Optio 2 Year Advance Replacement

2 YEAR ADVANCE REPLACEMENT* Optio by vista

To help save you time and money on site we offer a 2 Year Advance Replacement on all Optio by Vista products.

How can you benefit from our 2 Year Advance Replacement?

- End user peace of mind – never be left without a working product on site
- Only one site visit – take out the faulty product and install the advance replacement product
- No time consuming or complicated returns procedures
- No waiting for products to be repaired – saves you time and money

The process for managing Advance Replacement is as follows:

If any Vista or Optio by Vista product purchased from 4th January 2016 develops a fault within 36 months of invoice, an Advance Replacement will be offered#, subject to confirmation of the fault by Vista Technical Support. Product warranty comes into effect from shipment date as determined by the serial number and purchase order number.

1. Fault confirmed by Vista Technical Support – Tel: 0118 912 5125
2. Once fault is confirmed, Norbain Customer Services will arrange Advance Replacement
3. Advance Replacement will be dispatched
4. Faulty unit returned to Norbain

After 1 month from shipment date, we reserve the right to use a refurbished or service product for the remainder of the warranty period.

* This offer is subject to proper installation and use in accordance with our terms and conditions.

PRE-CONFIGURATION

Our pre-configuration service reduces the amount of time engineers spend on site by preparing the system prior to delivery. We will unpack all the equipment, configure the video surveillance system and re-pack it before shipping to site which reduces the risk to the installer.

The purpose-built configuration centre is capable of delivering a variety of services such as:

- Programming of IP addresses into cameras and servers to make all devices present on the network
- Installation of software onto servers
- Configuration of software/NVR to communicate with cameras
- Setting up camera streams for resolution and frame rate in accordance with client requirements
- Configuration of software/NVR to record streams
- Delivery of camera and equipment schematics detailing IP address and MAC address

These configuration services are designed to be flexible and can be tailored to respond to your specific needs.

CUSTOMER SERVICES

In the event of a product failure our simplified Advance Replacement process, supported by the Customer Services team, means we can resolve the situation as quickly as possible, saving you time and money.

PRE- & POST-SALES TECHNICAL SUPPORT

Our Technical Support team is available to assist and support on every Vista product, providing you with the reassurance of expert technical backup.

- Available from 8:30am-6:00pm, Monday to Friday
- Expert advice across the whole of the Vista product offering
- Advice on specification, configuration and implementation
- Technical Support Number: 0118 912 5125

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BUSINESS DEVELOPMENT TEAM

We know that choosing the right video surveillance solution can be a challenge. Our dedicated Business Development team will help you identify the right solution for you and prove its suitability to your End Users through on-site demonstrations, or via our Demonstration Centres.

PRODUCT MANAGEMENT

With a wealth of experience in the CCTV industry, our Product Management team manage all aspects of the product life cycle. We continually assess market and technology trends, and strive to develop innovative products, using the most powerful and stable technologies that add real value to you.

VISTA WEBSITE

Our website is home to a wealth of detailed information on our products, support services, publications and latest news. Take a look at the website, vista-cctv.com, then give us a call. Let's talk!

YOUTUBE CHANNEL

Pictures speak a thousand words and our YouTube channel lets our videos do the talking for us. You can find useful videos that highlight our philosophy, particular technologies, new products and integrated solutions.

VISUAL CONTENT

Vista has created a wealth of visual content to support you in installing, using and promoting our solutions. On our website you'll find webinars explaining different solutions in the Vista range, along with animations showing where our Public Viewing Monitors can add value and cut costs. There are short Vista Bytes 'How To' videos, walking you through different features within our products as well as general Vista and Optio Video Surveillance visual explanations.

LET'S TALK: tel: +44 (0) 118 912 5000 | email: info@vista-cctv.com | web: vista-cctv.com

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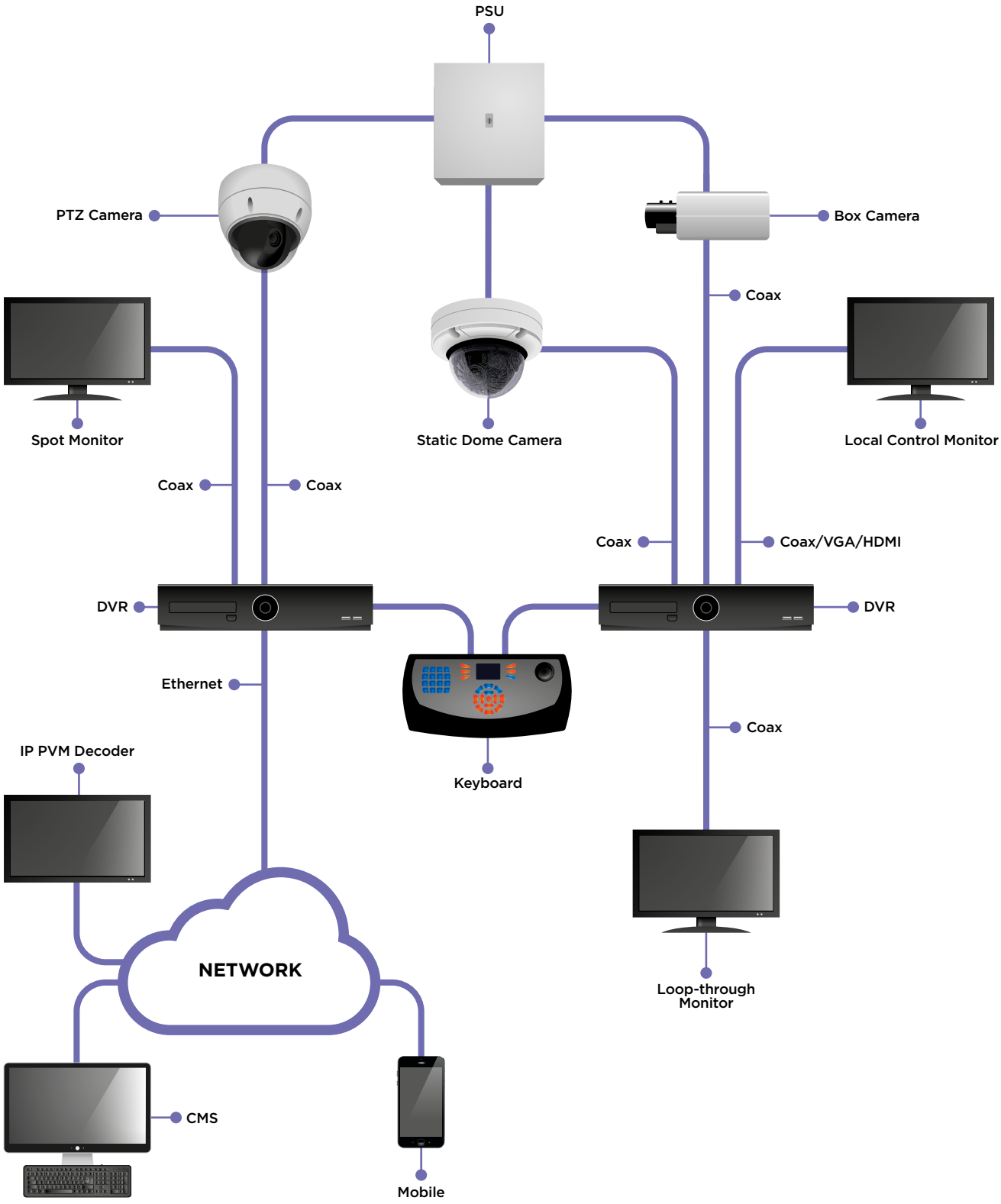
Analogue System Schematic

The below schematic shows a typical coax based video surveillance system using a DVR and keyboard to control both PTZ and static cameras. In addition, the schematic takes into account the use of a router for external access to and from the internet or mobile applications to view live and archived images.



SEE PAGE 18

HDA Cameras Overview

Vista's range of HDA cameras provide flexibility by offering multi-format (TVI, AHD and CVBS) outputs, allowing them to be used with any standard definition legacy DVR and Viper HDA DVRs. The range includes PTZs, fixed domes, bullets and box cameras. The motorised autofocus function on some models makes for easier setup and ensures crystal clear images are always produced.

SEE PAGE 22

Optio Analogue Cameras Overview

Optio by Vista is a range of Video Surveillance security products designed with simplicity at its heart. From choosing the best products for an application, to installation, right through to operation by the end-user, Optio's simple approach takes the complexity out of surveillance systems. Optio analogue CCTV cameras come in bullet, eyeball, and vandal dome options with a selection of varifocal and fixed lens options.

Don't forget...

If you need help identifying the right solution for you, our Business Development team is here to help.

SEE PAGE 13

Range Overview

HDA static cameras offer increased resolution over standard analogue and 960H coax-based CCTV systems. With 1080p resolution as standard, along with a variety of form factors, it allows them to cover the majority of applications.

Highlights of Range

- Motorised Lens: Allows the engineer to set the lens up from the DVR, making installation and adjustment easier and quicker
- STARVIS™ Technology: Sony's latest 1/3" back illuminated CMOS technology delivers exceptional quality colour images in low light scenes, where typically only black and white images would have been achievable. This is coupled with 120dB of true WDR to provide balanced images in challenging light conditions
- EasyFit Technology: Simply fit to ceiling or soffit and adjust the pan, tilt and lens' field of view "over the coax" from the DVR, making installation, or any necessary changes, quicker and easier

KEY RANGE FEATURES

- FULL 1080P IMAGING IN TVI & AHD
- TRIPLE FORMAT (TVI/AHD/CVBS)
- COAX TELEMETRY IN TVI FOR OSD SET UP AND MOTORISED LENS CONTROL
- TRUE DAY/NIGHT OPERATION
- CAN OUTPUT CVBS FOR LEGACY DVR SUPPORT

1080p HDA | **TRIPLE** FORMAT | TDN

A

B

C

PRODUCT NAME	A VFDA28V12HDA-WCB	B VFDA28V12HDA-WCW	C VFDA28V12HDA-BCB
PRODUCT CODE	0338700	0815550	0815560
Resolution	1080p/1000TVL	1080p/1000TVL	1080p/1000TVL
Supported Formats	TVI/AHD/CVBS	TVI/AHD/CVBS	TVI/AHD/CVBS
Sensor	1/2.9" Sony CMOS	1/2.9" Sony CMOS	1/2.9" Sony CMOS
Lens Type	2.8-12mm (manual)	2.8-12mm (manual)	2.8-12mm (manual)
Sensitivity	1.0Lux (colour), 0.1Lux (mono)	1.0Lux (colour), 0.1Lux (mono)	1.0Lux (colour), 0.1Lux (mono)
WDR	DWDR	DWDR	DWDR
Power	12VDC (2.3W) 24VAC (2.2W)	12VDC (2.3W) 24VAC (2.2W)	12VDC (2.3W) 24VAC (2.2W)
BNC Outputs	1	1	1
Coax Telemetry	TVI/AHD	TVI/AHD	TVI/AHD
Operating Temperature	0 to +40°C	0 to +40°C	0 to +40°C
IP Rating	IP30 (internal)	IP30 (internal)	IP30 (internal)
Colour	White base/Clear bubble/Black liner	White base/Clear bubble/White liner	Black base/Clear bubble/Black liner
Bracketry	See page 72	See page 72	See page 72

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Don't forget...

Our flexible pre-configuration service reduces the amount of time engineers have to spend on site.

SEE PAGE 12

MOUNTING OPTIONS

There are mounting options available for Vista's HDA Static Cameras

SEE PAGE 78

D

E

F

STARVIS

PRODUCT NAME	D VVRD28V12MHDAW	E VVRD28V12MHDAIRW	F VVRD28V12MHDAIRSW
PRODUCT CODE	0815570	0815580	0815590
Resolution	1080p/1000TVL	1080p/1000TVL	1080p/700TVL
Supported Formats	TVI/AHD/CVBS	TVI/AHD/CVBS	TVI/AHD/CVBS
Sensor	1/2.9" Sony CMOS	1/2.9" Sony CMOS	1/2.8" Sony STARVIS™
Lens Type	2.8-12mm (motorised)	2.8-12mm (motorised)	2.8-12mm (motorised)
Sensitivity	1.0Lux (colour), 0.1Lux (mono)	1.0Lux (colour), 0Lux (mono - IR on)	0.03Lux (colour), 0Lux (mono - IR on)
IR Illumination	-	25m	30m
WDR	DWDR	DWDR	True (120dB)
Power	12VDC (2.3W) 24VAC (2.2W)	12VDC (3.9W) 24VAC (3.9W)	12VDC (3.9W) 24VAC (3.9W)
BNC Outputs	1	1	2
Coax Telemetry	TVI/AHD	TVI/AHD	TVI/AHD
Operating Temperature	-10 to +50°C	-10 to +50°C	-10 to +50°C
IP Rating	IP66	IP66	IP66
Vandal Resistance	IK10 (BS EN 62262)	IK10 (BS EN 62262)	IK10 (BS EN 62262)
Colour	White	White	White
Bracketry	See page 72	See page 72	See page 72

Don't forget...

You can save time and money with our 3 Year Advance Replacement on Vista products.

3 YEAR ADVANCE REPLACEMENT for Vista* products

SEE PAGE 11

MOUNTING OPTIONS

There are mounting options available for Vista's HDA Static Cameras

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EASYFIT TECHNOLOGY

G

H

I

PRODUCT NAME	G VEFED28V12MHDAW	H VBC28V12MHDA	I VPC-DNHDA
PRODUCT CODE	0146400	0146390	0146410
Resolution	1080p/1000TVL	1080p/1000TVL	1080p/700TVL
Supported Formats	TVI/AHD/CVBS	TVI/AHD/CVBS	TVI/AHD/CVBS
Sensor	1/2.9" Sony CMOS	1/2.9" Sony CMOS	1/2.9" Sony CMOS
Lens Type	2.8-12mm (motorised)	2.8-12mm (motorised)	See page 71 for lenses
Sensitivity	1.0Lux (colour), 0Lux (mono - IR on)	1.0Lux (colour), 0Lux (mono - IR on)	1.0Lux (colour), 0.1Lux (mono)
IR Illumination	25m	40m	-
Motorised Pan & Tilt	357° Pan/100° Tilt	-	-
WDR	DWDR	DWDR	DWDR
Power	12VDC (4.2W)	12VDC (5.8W) 24VAC (4.8W)	12VDC (3.4W) 24VAC (4.8W)
BNC Outputs	1	1	1
Coax Telemetry	TVI/AHD	TVI/AHD	TVI/AHD
Operating Temperature	-10 to +50°C	-10 to +50°C	-10 to +50°C
IP Rating	IP66	IP66	IP20
Vandal Resistance	IK10	IK10	-
Colour	White	White	Grey
Bracketry	See page 72	See page 72	See page 94

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Range Overview

The VP-HDA PTZ high performance domes offer a 20:1 or 30:1 optical zoom in 1080p, plus a further x16 digital zoom. All VP-HDA PTZ domes come with Sony STARVIS™ technology and 120dB of WDR for challenging light conditions. All three models include "quick-fit" design to make installation easier and provide strain relief on the flying lead.

Highlights of Range

- STARVIS™ Technology: Using Sony's latest 1/3" back illuminated CMOS technology to deliver exceptional quality colour images in low light scenes, where typically only black and white images would have been achievable
- 300m synchronised IR: The synchronised IR LED tracks with the camera zoom to provide optimum illumination up to 300m in the area you are viewing
- Quick-fit design: There is no need to open the dome during installation, therefore avoiding the chance of condensation. This reduces installation time and ensures effective operation

KEY RANGE FEATURES

- FULL 1080P IMAGING IN TVI & AHD
- SONY STARVIS™ TECHNOLOGY FOR EXCELLENT LOW LIGHT IMAGES
- TRIPLE FORMAT (TVI/AHD/CVBS)
- 256 PRESETS/8 TOURS
- UP THE COAX TELEMETRY IN TVI & AHD
- RS-485 TELEMETRY FOR CVBS
- 120DB WIDE DYNAMIC RANGE (WDR)
- TRUE DAY/NIGHT OPERATION
- 4 ALARM INPUTS AND 2 OUTPUTS
- CAN OUTPUT CVBS FOR LEGACY DVR SUPPORT
- QUICK-FIT DESIGN

1080p HDA | TRIPLE FORMAT | WDR | TDN | STARVIS

A

B

C

PRODUCT NAME	A VP-HDA20-SMW	B VP-HDA20IR-SMW	C VP-HDA30IR-PMW
PRODUCT CODE	0718820	0477230	0718840
Resolutions	1080p/600TVL	1080p/600TVL	1080p/600TVL
Supported Formats	TVI/AHD/CVBS	TVI/AHD/CVBS	TVI/AHD/CVBS
CMOS Sensor	1/3" Sony STARVIS™	1/3" Sony STARVIS™	1/3" Sony STARVIS™
Optical/Digital Zoom	20:1 (4.7-94mm)/16x	20:1 (4.7-94mm)/16x	30:1 (4.3-129mm)/16x
Sensitivity	0.35Lux (colour), 0.013Lux (mono)	0.35Lux (colour), 0.013Lux (mono)	0.35Lux (colour), 0Lux (mono, IR on)
IR Illumination	-	60M IR Illumination	300m (synchronised IR LED)
Coax Telemetry	TVI/AHD	TVI/AHD	TVI/AHD
RS-485 Telemetry	Auto 485/Vista/Pelco P & D	Auto 485/Vista/Pelco P & D	Auto 485/Vista/Pelco P & D
WDR	True (120dB)	True (120dB)	True (120dB)
Power	12VDC/24VAC (12W)	12VDC/24VAC (12W) 24VAC (50W) heater & fan	24VAC (38W)
BNC Outputs	2	2	2
Operating Temperature	-10 to +50°C	-10 to +50°C (-50 to +65°C heater & fan connected)	-30 to +65°C
IP Rating	IP66	IP66	IP66
Vandal Resistance	IK10 (EN 62262)	IK10 (EN 62262)	Built to IK10
Colour	White	White	White

Range Overview

Optio analogue cameras come in bullet, eyeball and vandal dome options with a choice of varifocal or fixed lens.

Cleverly developed with just the most popular models and features, Optio offers a carefully selected range of surveillance camera options ideal for the majority of applications across the small commercial and residential market.

Highlights of Range

- Bullet cameras provide the perfect commercial solution – they offer a visible deterrent and have extended IR capability for quality images in low light conditions
- The vandal dome camera is a popular choice for retail and offices as they are vandal resistant with a small, discreet footprint
- Eyeball or Turret cameras have a low aesthetic profile, are extremely versatile and provide great low light performance, making them a good choice for large residential applications
- Choose the lens type to suit your needs – fixed or varifocal

KEY RANGE FEATURES

- SIMPLE SET UP
- COST EFFECTIVE (HIGH RESOLUTION IMAGES AT A LOW PRICE)
- 4MP TRUE DAY/NIGHT SENSOR
- IP67 – OUTSIDE INSTALLATIONS
- INTEGRATED IR ILLUMINATION, EXCELLENT LOW LIGHT PERFORMANCE
- QUAD VIDEO FORMAT: CVI/TVI/AHD/CVBS
- VARIFOCAL (ZOOM) LENS OR FIXED (WIDE ANGLE) LENS
- UP TO 500M RG59 CABLE RUNS

4MP HDA | QUAD FORMAT | TDN

A

B

C

D

PRODUCT NAME	A OPA4ED28IR	B OPA4ED28V12IR	C OPA4VD28IR	D OPA4VD28V12IR
PRODUCT CODE	0485840	0485850	0485860	0485870
Image Sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Effective Pixels	2560(H)x1440(V)	2560(H)x1440(V)	2560(H)x1440(V)	2560(H)x1440(V)
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on	0.03Lux/F1.8, 30IRE, 0Lux IR o	0.03Lux/F2.0, 30IRE, 0Lux IR on	0.03Lux/F1.8, 30IRE, 0Lux IR o
IR Distance	Up to 30m (98feet)	Up to 60m (197feet)	Up to 30m (98feet)	Up to 30m (98feet)
Lens Type	Fixed lens / Fixed iris	Motorised lens / Fixed iris	Fixed lens / Fixed iris	Motorised lens / Fixed iris
Focal Length	2.8mm	2.7mm~12mm	2.8mm	2.7mm~12mm
Focus Control	N/A	Motorised	N/A	Motorised
Resolution	4MP (2560×1440)	4MP (2560×1440)	4MP (2560×1440)	4MP (2560×1440)
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)
BLC Mode	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Power Consumption	Max 3.7W (12V DC, IR on)	Max 8W (12V DC, IR on)	Max 3.7W (12V DC, IR on)	Max 7W (12V DC, IR on)
Ingress Protection	IP67	IP67	IP67	IP67
Vandal Resistant	N/A	N/A	IK10	IK10

Note: *To use Optio analogue cameras on the Vista Viper HDA DVRs, the cameras need to use the latest firmware. Please contact your account manager to confirm the correct part code.*

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SEE PAGE 11

2 YEAR ADVANCE REPLACEMENT* Optio by vista

INTRODUCING THE OPTIO

Product Selector

The easy step-by-step selection process makes for simple, stress-free ordering.

norbain.com/product-selectors/optio

E

F

PRODUCT NAME	E OPA4BL28IR	F OPA4BL28V12IR
PRODUCT CODE	0485820	0485830
Image Sensor	1/2.7" CMOS	1/2.7" CMOS
Effective Pixels	2560(H)x1440(V)	2560(H)x1440(V)
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on	0.03Lux/F1.8, 30IRE, 0Lux IR o
IR Distance	Up to 30m (98feet)	Up to 60m (197feet)
Lens Type	Fixed lens / Fixed iris	Motorised lens / Fixed iris
Focal Length	2.8mm	2.7mm~12mm
Focus Control	N/A	Motorised
Resolution	4MP (2560×1440)	4MP (2560×1440)
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)
BLC Mode	BLC / HLC / DWDR	BLC / HLC / DWDR
Power Consumption	Max 4.9W (12V DC, IR on)	Max 11.5W (12V DC, IR on)
Ingress Protection	IP67	IP67
Vandal Resistant	N/A	N/A

MOUNTING OPTIONS

There are mounting options available for the Optio range of cameras

Optio by vista

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Analogue Recording

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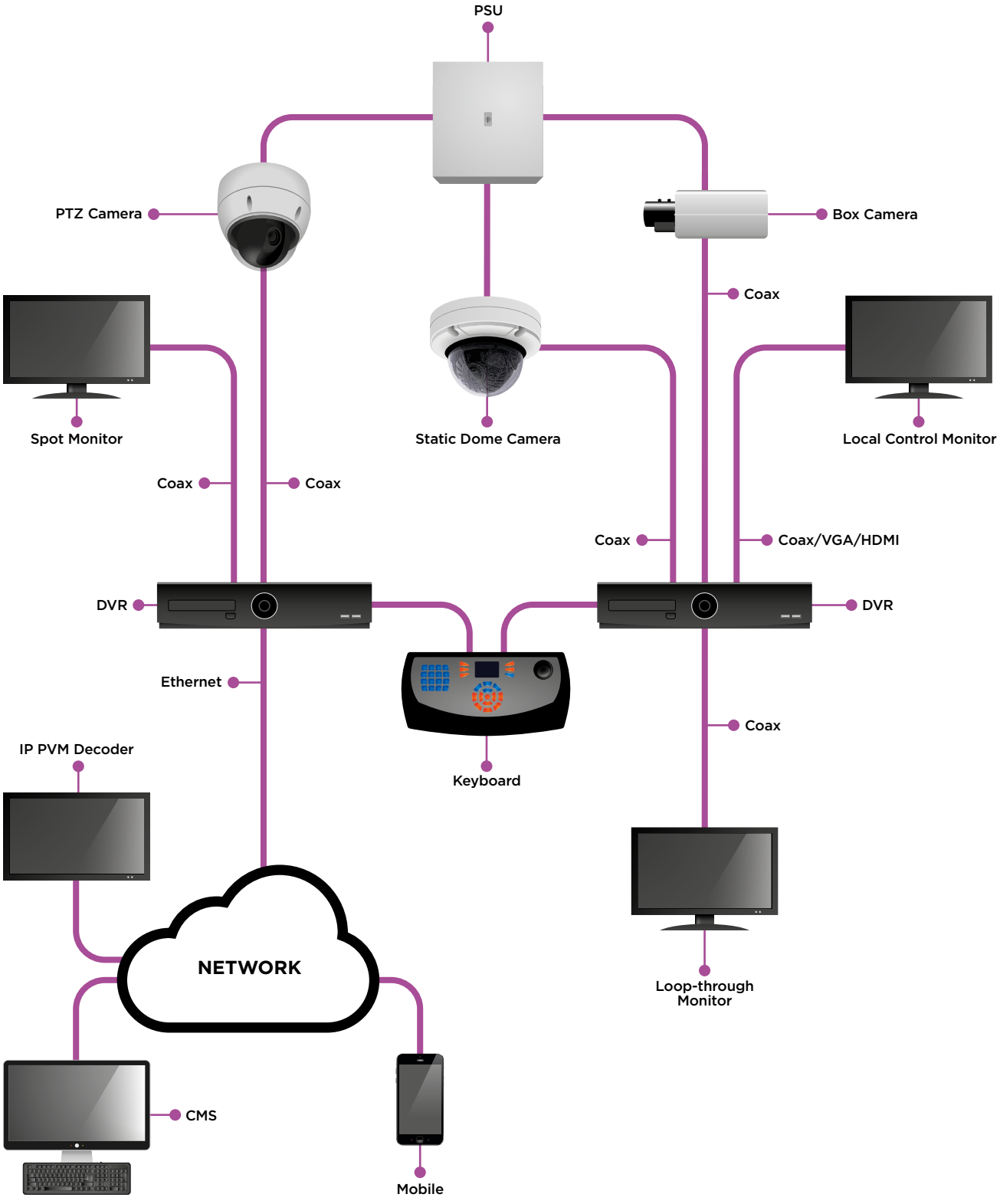
VIPER HDA | VIPER VMC | VIPER REMOTE | Optio by vista ANALOGUE

Analogue System Schematic

The below schematic shows a typical coax based CCTV system using a DVR and keyboard to control both PTZ and static cameras. In addition, the schematic takes into account the use of a router for external access to and from the internet or mobile applications to view live and archived images.



VIPER HDA

SEE PAGE 28

Viper HDA DVRs Overview

The Viper HDA DVRs provide increased camera choice by offering multi format recording (TVI, AHD and CVBS), creating a simple upgrade path for existing analogue systems. They can also be used for installation on new HD systems, taking advantage of increased resolution without requiring the knowledge base of IP CCTV.

VIPER VMC

SEE PAGE 29

Viper VMC Overview

Pull together the Viper HDA DVRs and Viper IP NVRs into a single seamless system with one uniform and intuitive front end by using the Viper Virtual Matrix Controller (VMC).

VIPER REMOTE

Viper Remote Overview

Viper Remote is a fully featured mobile app that can connect to any Viper recording device, providing you with remote access whilst you are on the move. It offers push notifications to alert the end user of triggered alarms, allowing them to take immediate action. It also features live and recorded viewing of footage across a range of connected recorders, as well as camera control.

Optio by vista ANALOGUE

SEE PAGE 30

Optio DVRs Overview

Optio by Vista digital video recorders are ideally suited to work alongside the Optio analogue camera range. Optio offers a series of 4, 8 and 16-channel analogue Video Surveillance recorders offering efficient compression and smart fan technology for energy and noise reduction.

Viper Remote App

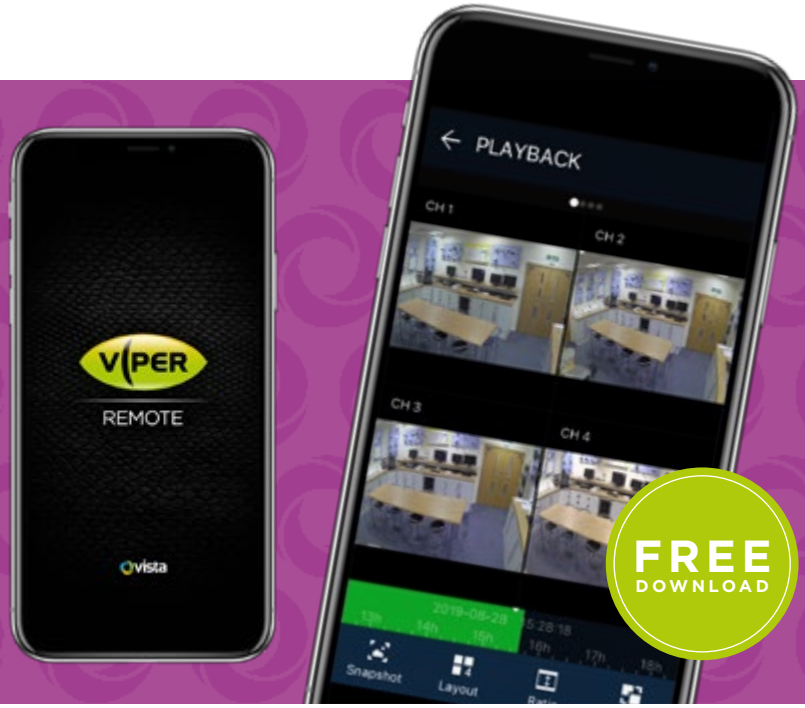
This app allows the user to remotely connect to Viper recorders using either an iOS or Android device.

Features include:

- PTZ control
- View live and recorded images
- Event push
- P2P connection

Available on the iPhone App Store

ANDROID APP ON Google play



Range Overview

The Viper HDA is a true hybrid 4, 8 or 16 channel DVR, able to record TVI, AHD and CVBS cameras in 1080p realtime, along with IP cameras up to 5MP.

With two form factors, the 1U is the entry level unit with intuitive mouse control. The 2U L models provide loopthrough and DVD, plus mouse and VKBD4 keyboard support, giving operators a more familiar operation of PTZ cameras.

Highlights of Range

- True Hybrid: Gives flexibility of camera choice by accepting various types of camera inputs - TVI, AHD, CVBS and IP
- Loopthrough: Allows video to be taken to other locations
- VKBD4 support: Provides control of the Viper HDA and any connected PTZ cameras for familiar CCTV operation

KEY RANGE FEATURES

- TRUE HYBRID - TVI/AHD/CVBS/IP
- 1080P REALTIME RECORDING
- 5MP IP CAMERA SUPPORT
- 960H RECORDING FOR LEGACY CAMERA SUPPORT
- COAX AND RS-485 TELEMETRY
- ARCHIVE VIA USB OR OVER THE NETWORK
- SPOT MONITOR OUTPUT

1080p HDA | **5MP** IP | **QUAD** FORMAT

A

B

PRODUCT NAME		A VIPER04-HDA	A VIPER08-HDA	A VIPER16-HDA	B VIPER08-HDAL	B VIPER16-HDAL
PRODUCT CODE		VIPER-HDA-04-XTB	VIPER-HDA-08-XTB	VIPER-HDA-16-XTB	VIPER-HDAL-08-XTB	VIPER-HDAL-16-XTB
Channels		4 (4 BNC, 2 IP configurable)	8 (8 BNC, 2 IP configurable)	16 (16 BNC, 4 IP configurable)	8 (8 BNC, 2 IP configurable)	16 (16 BNC, 4 IP configurable)
Looping Inputs		No	No	No	Yes	Yes
Video Input Type		TVI/AHD/CVBS/IP	TVI/AHD/CVBS/IP	TVI/AHD/CVBS/IP	TVI/AHD/CVBS/IP	TVI/AHD/CVBS/IP
Video Input Resolution	BNC	1080p	1080p	1080p	1080p	1080p
	IP	5MP	5MP	5MP	5MP	5MP
Display Output		HDMI/VGA/BNC	HDMI/VGA/BNC	HDMI/VGA/BNC	HDMI/VGA/BNC	HDMI/VGA/BNC
Display Resolution	HDMI, VGA Output	1080p	1080p	1080p	1080p	1080p
	BNC (Spot)	700TVL	700TVL	700TVL	700TVL	700TVL
Display Speed		200/240ips	200/240ips	200/240ips	200/240ips	400/480ips
Display Mode	HDMI, VGA Output	1/4/9 Split, PIP, Sequence	1/4/9 Split, PIP, Sequence	1/4/9/16 Split, PIP, Sequence	1/4/9 Split, PIP, Sequence	1/4/9/16 Split, PIP, Sequence
	BNC (Spot)	1/9 Split, Sequence	1/9 Split, Sequence	1/16 Split, Sequence	1/9 Split, Sequence	1/16 Split, Sequence
Compression		H.264	H.264	H.264	H.264	H.264
Recording Resolution	BNC	1080p	1080p	1080p	1080p	1080p
	IP	5MP	5MP	5MP	5MP	5MP
Recording Rate		Main stream: 200/240ips@1080p Sub stream: 200/240ips@VGA	Main stream: 200/240ips@1080p Sub stream: 200/240ips@VGA	Main stream: 200/240ips@1080p Sub stream: 200/240ips@VGA	Main stream: 400/480ips@1080p Sub stream: 200/240ips@VGA	Main stream: 400/480ips@1080p Sub stream: 200/240ips@VGA
Simultaneous Playback		1/4/9 Split	1/4/9 Split	1/4/9/16 Split	1/4/9 Split	1/4/9/16 Split
Playback Mode		Backward, Forward 2x-64x	Backward, Forward 2x-64x	Backward, Forward 2x-64x	Backward, Forward 2x-64x	Backward, Forward 2x-64x
Search Mode		Time, Event, Thumbnail, Text, Smart(motion)	Time, Event, Thumbnail, Text, Smart(motion)	Time, Event, Thumbnail, Text, Smart(motion)	Time, Event, Thumbnail, Text, Smart(motion)	Time, Event, Thumbnail, Text, Smart(motion)
HDD Bays		2	2	2	4	4
External Storage		iSCSI	iSCSI	iSCSI	iSCSI	iSCSI
Backup		USB, Network	USB, Network	USB, Cloud	USB, Network, DVD	USB, Network, DVD
Ethernet		1 x 1Gbit	1 x 1Gbit	1 x 1Gbit	1 x 1Gbit	1 x 1Gbit
Remote Viewing		CMS, Mobile, Web, Dashboard	CMS, Mobile, Web, Dashboard	CMS, Mobile, Web, Dashboard	CMS, Mobile, Web, Dashboard	CMS, Mobile, Web, Dashboard
Audio		4 in/1 out	4 in/1 out	4 in/1 out	8 in/1 out	16 in/1 out
Alarm		8 in/1 out	8 in/1 out	8 in/1 out	8 in/1 out	16 in/1 out
RS-485		Vista/Pelco D & P	Vista/Pelco D & P	Vista/Pelco D & P	Vista/Pelco D & P	Vista/Pelco D & P
Coax Telemetry		TVI/AHD/Vista-C*	TVI/AHD/Vista-C*	TVI/AHD/Vista-C*	TVI/AHD/Vista-C*	TVI/AHD/Vista-C*
USB		2	2	2	2	2
Dimensions (mm)		378x47x322mm (WxHxD)	378x47x322mm (WxHxD)	378x47x322mm (WxHxD)	435.7x88.7x356mm (WxHxD)	435.7x88.7x356mm (WxHxD)
Rackmount		Supplied separately 0567480	Supplied separately 0567480	Supplied separately 0567480	Supplied separately 0813380	Supplied separately 0813380

** Requires Vista-FSK Adaptor for Vista-C telemetry*

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Overview

The Virtual Matrix controller is an innovative product, providing a PC-free solution for the control of systems using both Analogue and IP cameras.

The VMC connects to the Viper range of IP NVRs and Hybrid DVRs. As a result the system operator can view and select from up to 64 cameras on the main 4K UHD output, while still watching and controlling the cameras on the HDMI Sub monitor output.

The operator also has the ability to "WARP" to any of the remotely connected devices. This gives them full control of all the features of that particular remote device including system set up, PTZ control and advanced Smart and Event search capabilities.

A

KEY RANGE FEATURES

- VIRTUAL MATRIX CONTROL OF VIPER DVRS AND NVRS
- 64 WAY UHD 4K MONITOR SUPPORT – MAIN MONITOR
- SUB MONITOR CONTROL OF PTZ ON MULTI-SCREENS - SPLITS UP TO 32 CAMERAS
- WARP CONNECTION FOR DIRECT CONTROL AND SET UP OF NVRS AND DVRS
- MIRROR RECORDING OF UP TO 64 CAMERAS, WITH MP4 DOWNLOAD
- 2U HIGH RACK MOUNTABLE, UP TO 32TB INTERNAL STORAGE

1080p	8MP	4K
HDA	IP	DISPLAY

PRODUCT NAME	A VIPER-VMC
PRODUCT CODE	VIPER-VMC642-XTB
Video Input Resolution	Up to 8MP
Compression	H.265, H.264
Display Output	UHD 4K
Display Resolution	4K/1080p
Sub Monitor (Spot)	1080p
Display Speed	800/960ips
Display Mode	1/4/9/16/36/64 Split, Sequence (Sub Monitor - Up to 32 way split)
Recording Speed	800/960ips @ 8MP
Max. Recording Throughput	640Mbps
Recording Mode	Continuous, Motion, Alarm, C+M, C+A, M+A, C+M+A, Panic
Pre Alarm	1sec ~ 5sec
Post Alarm	5sec ~ 1 hour
Simultaneous Playback	1/4/9/16/36/64 Split, Sequence
Playback Mode	Backward, Forward 2x~64x
Search Mode	Time, Event, Thumbnail
Storage	4 SATA Interfaces (Up to 32TB)/iSCSI (external)
Backup	USB
RAID	1
User Interface	Mouse, USB/RS485 Keyboard, Remote controller (Optional)
WARP	Live, Playback, Setup & Search
Virtual Matrix	64ch Max. Live, Recording, Playback, Setup & Search
Ethernet	2 RJ45 10/100/1000 Base-T
Max. Output Throughput	Unlimited (Guarantee 576Mbps, Support Bandwidth Control)
Audio	1 In/1 Out
Alarms	64 Network Alarm In/1 Out
Serial Port	1 RS485 (Terminal block)
USB	2 USB2.0 (front), 1 USB3.0 (rear)
Power Supply	12VDC/5A
Power Consumption	35W (Include 4HDD, Without PoE)
Dimension (WxHxD)	435.7x88.7x356mm
Net Weight	4.5kg (Exclude HDD)
Rackmount	Supplied separately 0813380

Range Overview

Optio by Vista digital video recorders are ideally suited to work alongside the Optio analogue camera range. Optio offers a series of 4, 8 and 16-channel analogue Video Surveillance recorders offering efficient compression and smart fan technology for energy and noise reduction.

Highlights of Range

- Simple set-up
- Cost effective (high resolution images at a low price)
- Up to 500m RG59 cable runs

KEY RANGE FEATURES

- 4K HDMI DISPLAY
- SMART FAN TECHNOLOGY: ENERGY & NOISE REDUCTION
- H.265 SMART CODEC EFFICIENT COMPRESSION
- QUAD VIDEO FORMAT: CVI/TVI/AHD/CVBS

4K DISPLAY | **QUAD** FORMAT | **H.265** VIDEO

A

B

TALK TO US
ABOUT HDD STORAGE SIZE

PRODUCT NAME	A OPDVR04	A OPDVR08	B OPDVR16
PRODUCT CODE	0485960	0485950	0485940
Channels	4 Channel, BNC	8 Channel, BNC	16 Channel, BNC
Looping	No		
Video Input Type	CVI / TVI / AHD / CVBS / IP		
IP Camera Input	4+2 Channel, each channel up to 8MP	8+4 Channel, each channel up to 8MP	16+8 Channel, each channel up to 8MP
Display Resolution	HDMI @ 4K, VGA @ 1080		HDMI @ 4K, VGA @ 1080
Display Mode	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25
Audio In/Out	1/1, RCA		
Alarms	No		
Compression	H.265+/H.265/H.264+/H.264		
Record Rate	Main stream: the 1st channel 4K (1~7ips), 6MP (1~10ips), 5MP (1~12ips), 4MP/3MP (1~15ips), others 4K-N (1~7ips), 4MP/3MP (1~15ips); 4M-N/1080P/720P/960H/D1/CIF (1~25/30ips) Sub stream:960H (1~15ips); D1/CIF (1~25/30ips)		
Ethernet	1 RJ-45 Port (100M)		1 RJ-45 Port (1000 Mbps) for client and IP cameras
Remote Viewing	Optio Central / IE / Android / iPhone		
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)		
Backup Mode	USB Device/Network		
Internal HDD	1 SATA Port, up to 10TB capacity		
USB	2 USB Ports (2 USB 2.0)		
Coax Telemetry	HDCVI 3.0		
Dimensions	260×236×48mm (10.2"×9.3"×1.9")		325×255×55mm (12.8"×10"×2.2")

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Optio by vista | Cutting-edge CCTV made simple

vista

It's time to **leave those complex CCTV setups behind!**

Optio by Vista is a new CCTV brand designed with simplicity at its heart. From choosing the best products for an application, to installation, right through to operation by the end user, Optio's simple approach takes the complexity out of surveillance. Cleverly developed with just the most popular models and features, Optio offers a carefully selected range of surveillance and recording options ideal for most applications across commercial and residential markets.

IT'S AS EASY AS

1. Choose recording technology
2. Choose camera housing
3. Choose camera lens

INTRODUCING THE NEW

Optio by Vista Product Selector

The easy step-by-step selection process makes for simple, stress-free ordering: **norbain.com/product-selectors/optio**.

So, if you're looking for a simple, hassle-free installation with products that won't keep changing or let you down, why not get in touch, or find out more at **www.vista-cctv.com**.

LET'S TALK:

tel: **+44 (0) 118 912 5000**

email: **info@vista-cctv.com**

web: **vista-cctv.com**

Hybrid Technologies

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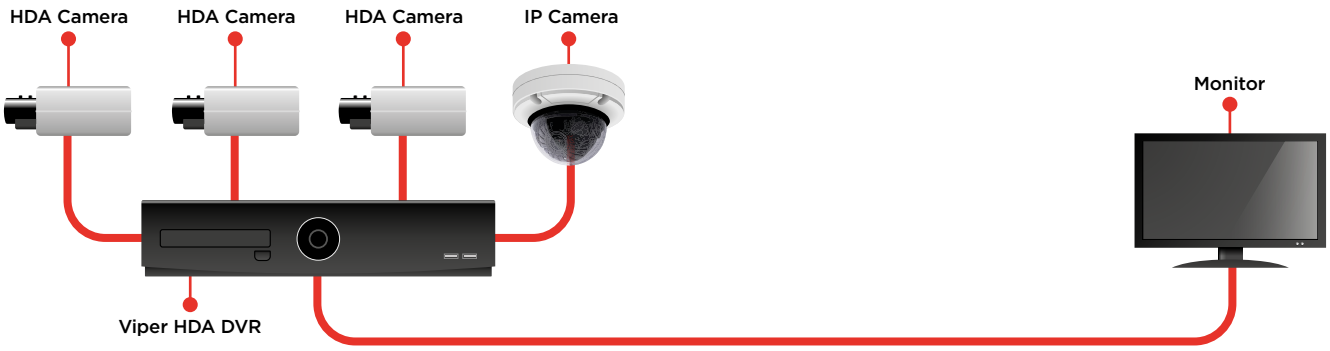
VK2 VIPER HDA VIPER IP VIPER VMC

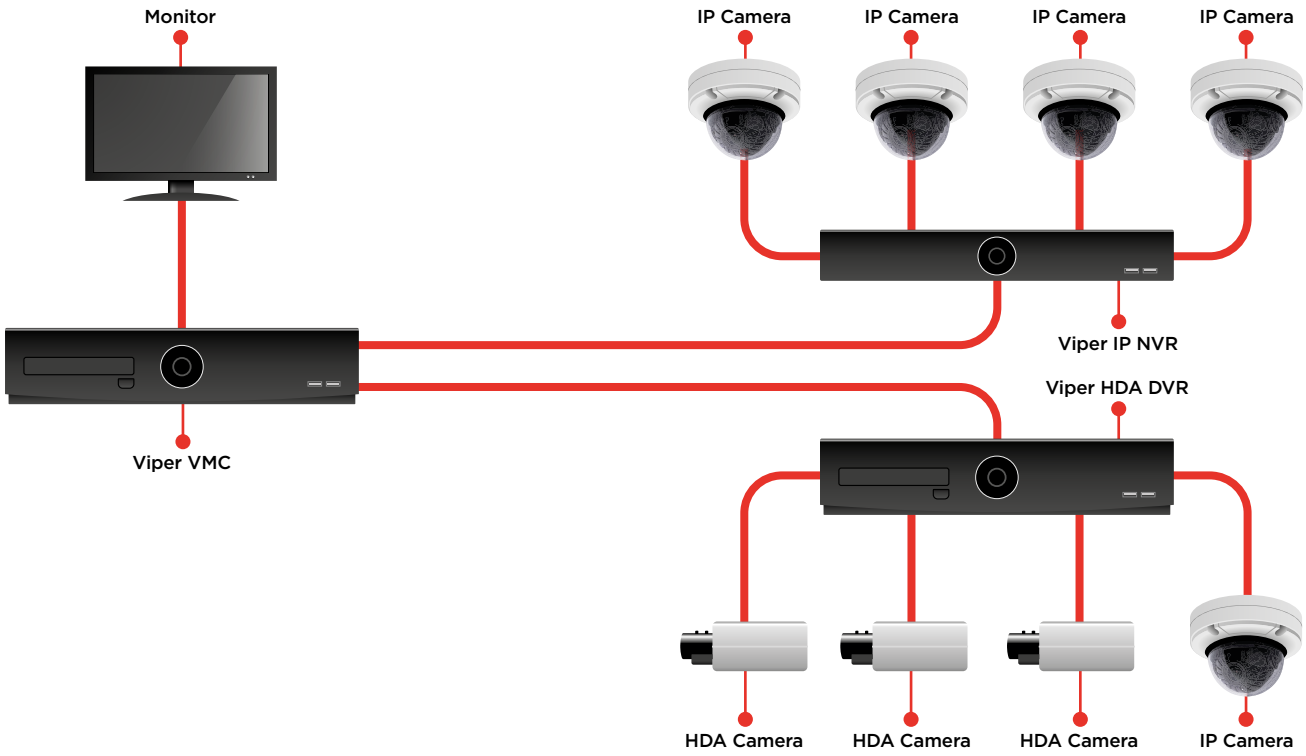
Hybrid System Schematic

Depending on your current installation we can offer various options for creating the most suitable hybrid system.

A) Improve Analogue image quality



B) Combine IP and Analogue recording solutions



Don't forget...

Our flexible pre-configuration service reduces the amount of time engineers have to spend on site.

SEE PAGE 12

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Overview

IP video surveillance offers the advantages of High Definition (HD) images and the flexibility of multiple Client viewing stations. Existing analogue systems and infrastructure can be amalgamated with an IP system to easily form a hybrid solution. Depending on your current installation we can offer various options for creating the most suitable hybrid system.

These include:

A) Upgrade your legacy analogue systems to HD with the flexibility of 25% of the recording channels being available for IP cameras by using the Viper HDA

B) Pull together the Viper HDA DVRs and Viper IP NVRs into a single seamless system with one uniform and intuitive front end by using the Viper Virtual Matrix Controller (VMC)

VK2

SEE PAGE 40

VK2 Cameras Overview

The VK2 camera range offers the installer the opportunity to provide increased resolution up to 5MP in multiple form factors to suit virtually any situation. These include vandal resistant domes, 360° fisheye and PTZ cameras. Varying levels of functionality can be offered to suit particular scenarios, such as True Wide Dynamic Range for areas where you have challenging light conditions.

VIPER HDA

SEE PAGE 28

Viper HDA DVRs Overview

The Viper HDA DVRs provide increased camera choice by offering multi format recording (TVI, AHD and CVBS), creating a simple upgrade path for existing analogue systems. They can also be used for installation on new HD systems, taking advantage of increased resolution without requiring the knowledge base of IP CCTV.

VIPER IP

SEE PAGE 54

Viper IP NVRs Overview

The Viper NVRs are available in 4 to 32 channel options, with various sizes of internal storage to suit most situations. The PoE and plug and play functionality make them simple to install and commission saving you valuable time on site. The unique “WARP” feature allows a Master unit to display the cameras from multiple Viper units networked together, giving you flexibility of design while removing the cost of a Client PC.

VIPER VMC

SEE PAGE 29

Viper VMC Overview

Pull together the Viper HDA DVRs and Viper IP NVRs into a single seamless system with one uniform and intuitive front end by using the Viper Virtual Matrix Controller (VMC).

VIPER REMOTE

SEE PAGE 27

Viper Remote Overview

Viper Remote is a fully featured mobile app that can connect to any Viper recording device, providing you with remote access whilst you are on the move. It offers push notifications to alert the end user of triggered alarms, allowing them to take immediate action. It also features live and recorded viewing of footage across a range of connected recorders, as well as camera control.

IP Cameras

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VK2 3MP Static Cameras	43
VK2 Specialist Cameras	44
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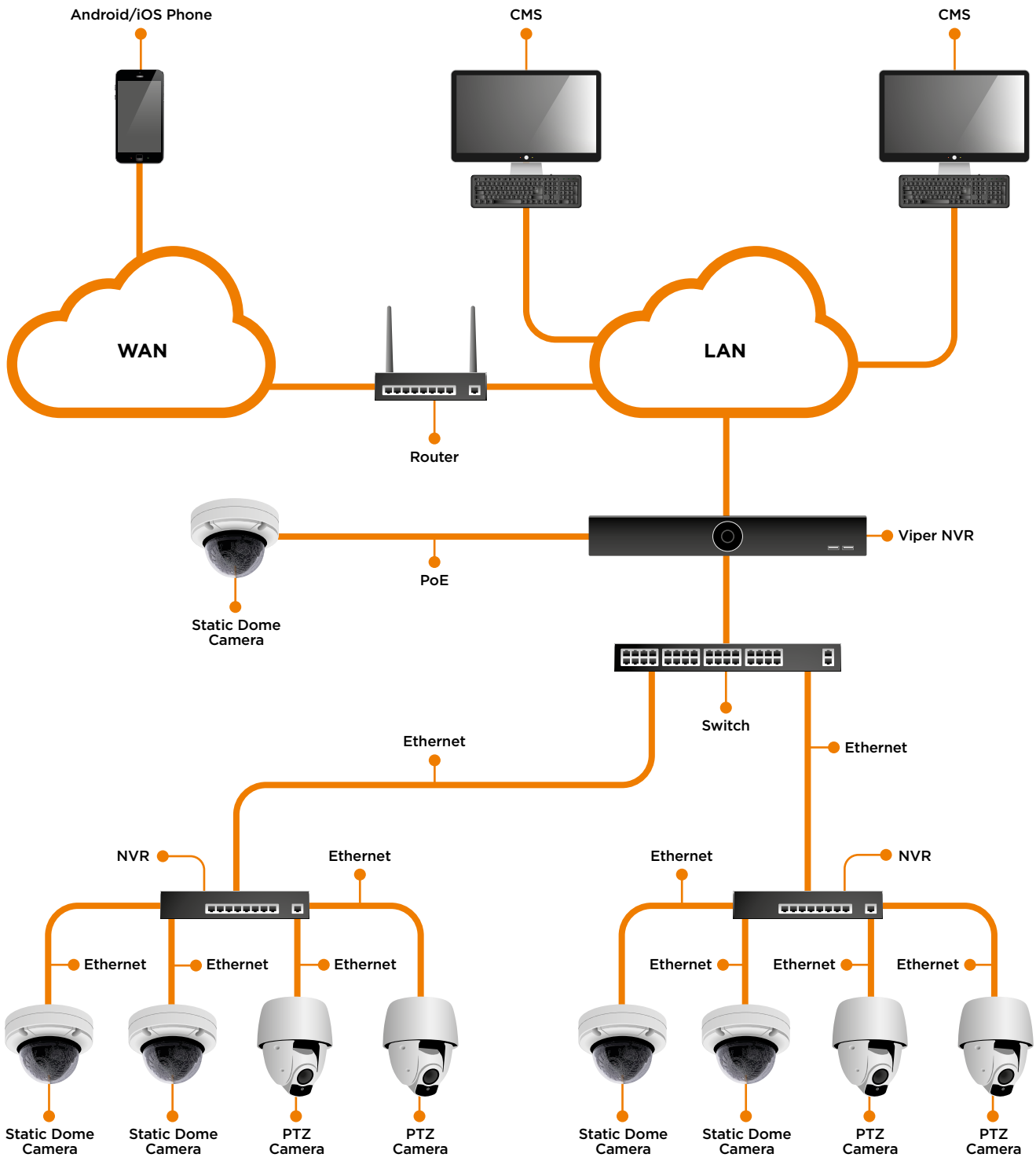
IP Entry Level System Schematic

The below schematic shows an IP video surveillance camera system using Central Management Software with a Client PC. In addition, the schematic takes into account the use of Edge PoE (Power over Ethernet) switches to overcome network cable distance restrictions of 100m max. The system also includes a router for external access to and from the internet or mobile applications.



VK2

SEE PAGE 40

VK2 Cameras Overview

The VK2 camera range offers the installer the opportunity to provide increased resolution up to 5MP in multiple form factors to suit virtually any situation. These include vandal resistant domes, 360° fisheye and PTZ cameras. Varying levels of functionality can be offered to suit particular scenarios, such as True Wide Dynamic Range for areas where you have challenging light conditions.

Optio IP by vista

SEE PAGE 48

Optio IP Cameras Overview

Optio by Vista is a range of Video Surveillance security products designed with simplicity at its heart. From choosing the best products for an application to installation, right through to operation by the end-user, Optio's simple approach takes the complexity out of surveillance systems. Optio IP Video Surveillance cameras come in bullet, eyeball, and vandal dome options with a selection of varifocal and fixed lens options.

OUR VIPER RANGE OF RECORDERS PERFECTLY COMPLEMENT VISTA'S VK2 IP CAMERAS

VIPER

SEE PAGE 54

ANALOGUE TO IP IS EASY WITH THE VIPER-HDAENC16 HIGH DEFINITION ANALOGUE ENCODER

VIPER

SEE PAGE 69

Don't forget...

If you need help identifying the right solution for you, our Business Development team is here to help.

SEE PAGE 13

Range Overview

The VK2L-2MP series is our entry level IP camera range. However, entry level doesn't mean low featured. With H.265 encoding, 25ips at 1080p, digital WDR, triple streaming as standard and Hi-Stream regions of interest, the VK2L-2MP cameras punch well above their weight.

Highlights of Range

- H.265 encoding: Greatly reduces both the bandwidth and storage requirements compared to H.264
- Compact form factors: The turret and bullet designs are discrete and unobtrusive
- Hi-Stream (ROI): Applies Static or Dynamic regions of interest to the image. The camera continuously analyses the scene and applies more compression to areas of low interest with no motion, and less compression to areas of high interest and motion to provide high resolution images, thus lowering both the bandwidth over the network and storage on the HDD

KEY RANGE FEATURES

- 2MP: 1080P (16:9) RESOLUTION
- TRIPLE STREAMING
- 25IPS AT 1080P
- FIXED LENS
- DWDR, BLC, PRIVACY ZONES AND MOTION DETECTION
- HI-STREAM REGIONS OF INTEREST
- POWER OVER ETHERNET OR 12VDC OPERATION
- ONVIF PROFILE S COMPLIANT
- COMPACT FORM FACTORS

2MP HD | **DIGITAL** WDR | **TRIPLE** STREAM

A

B

PRODUCT NAME	A VK2L-2MPTIR36	B VK2L-2MPBIR36
PRODUCT CODE	0308070	0338490
Resolution (max)	2MP (16:9)	2MP (16:9)
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Sensor	1/3" CMOS	1/3" CMOS
Lens Type	3.7mm (fixed)	3.7mm (fixed)
Sensitivity	0.1Lux (colour), 0Lux (mono - IR on)	0.1Lux (colour), 0Lux (mono - IR on)
IR Illumination	30m	30m
Streams	3	3
Frame Rate (max)	25ips	25ips
WDR	DWDR	DWDR
Video Content Analysis	Tamper/iVMD/Intrusion	Tamper/iVMD/Intrusion
PoE	IEEE802.3af compliance, Class0	IEEE802.3af compliance, Class0
Power	PoE (4.6W) 12VDC (6W)	PoE (4.6W) 12VDC (6W)
Operating Temperature	-20 to +50°C	-20 to +50°C
IP Rating	IP66	IP66
Vandal Resistance	IK10	IK0
Colour	White	White
Bracketry	VK2L-BB (0481690)	VK2L-BB (0481690)

MOUNTING OPTIONS

There are mounting options available for Vista's VK2 Static Cameras

SEE PAGE 78

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Range Overview

The VK2-2MPX and VK2-4MPX series are all H.265 cameras in multiple form factors. The entire range offers 25ips at maximum resolution, true WDR of 120dB, quad streaming and intelligent Video Content Analysis as standard. The hardest decision you'll have to make, is do you want 2MP or 4MP images?

Highlights of Range

- True WDR: 120dB WDR provides more balanced images in challenging light conditions, particularly in scenes of high contrast. For example, areas of bright light and dark shadow
- Motorised Lens: Allows the engineer to easily set the lens up from the camera webpage or the NVR, reducing the installation time and making sure the cameras see exactly what is required
- Hi-Stream (ROI): Applies Static or Dynamic regions of interest to the image, with the camera continuously analysing the scene to apply more compression to areas of low interest with no motion, and less compression to areas of high interest and motion to provide high resolution images, thus lowering both the bandwidth over the network and storage on the HDD

KEY RANGE FEATURES

- 2MPX: 1080P (16:9) & 4MPX: 4MP/ 2592X1520 (16:9) RESOLUTIONS
- TRIPLE STREAMING
- 25IPS AT MAXIMUM RESOLUTION
- FIXED OR MOTORISED LENSES
- WDR, BLC, VCA, PRIVACY ZONES AND MOTION DETECTION
- HI-STREAM REGIONS OF INTEREST
- ALARM & AUDIO IN/OUT
- POWER OVER ETHERNET OR 12VDC OPERATION
- ONVIF PROFILE S COMPLIANT
- MULTIPLE FORM FACTORS

2MP HD | **TRIPLE** STREAM | **WDR**

A

B

C

PRODUCT NAME	A VK2-2MPXVFDIR28V12M	B VK2-2MPXVRDIR37	B VK2-2MPXVRDIR28V12M	C VK2-2MPXBIR28V12M
PRODUCT CODE	0308060	0338520	0338500	0338510
Resolution (max)	1080p (16:9)	1080p (16:9)	1080p (16:9)	1080p (16:9)
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Sensor	1/2.8" Sony STARVIS™	1/2.8" Sony STARVIS™	1/2.8" Sony STARVIS™	1/2.8" Sony STARVIS™
Lens Type	2.8-12mm (motorised)	3.7mm (fixed)	2.8-12mm (motorised)	2.8-12mm (motorised)
Sensitivity	0.03Lux (colour), 0Lux (mono - IR on)	1.0Lux (colour), 0Lux (mono - IR on)	0.03Lux (colour), 0Lux (mono - IR on)	0.03Lux (colour), 0Lux (mono - IR on)
IR Illumination	25m	25m	30m	40m
Streams	4	4	4	4
Frame Rate (max)	25ips	25ips	25ips	25ips
WDR	True (120dB)	True (120dB)	True (120dB)	True (120dB)
Video Content Analysis	Tamper/iVMD/Intrusion	Tamper/iVMD/Intrusion	Tamper/iVMD/Intrusion	Tamper/iVMD/Intrusion
Alarms	1in/1out	1in/1out	1in/1out	1in/1out
Audio	1in/1out	1in/1out	1in/1out	1in/1out
On-Board Storage	SDHC/SDXC	SDHC/SDXC	SDHC/SDXC	SDHC/SDXC
PoE	IEEE802.3af compliance, Class0	IEEE802.3af compliance, Class0	IEEE802.3af compliance, Class0	IEEE802.3af compliance, Class0
Power	PoE (8.5W) 12VDC (7.6W)	PoE (7.3W) 12VDC (6.8W)	PoE (8.5W) 12VDC (7.6W)	PoE (9W) 12VDC (8W)
Operating Temperature	-10 to +50°C	-20 to +50°C	-20 to +50°C	-20 to +50°C
IP Rating	IP30 (internal)	IP66	IP66	IP66
Vandal Resistance	IK0	IK10 (BS EN 62262)	IK10 (BS EN 62262)	IK0
Colour	White	White	White	White
Bracketry	See page 78	See page 78	See page 78	See page 78

Don't forget...

Our flexible pre-configuration service reduces the amount of time engineers have to spend on site.

SEE PAGE 12

A

B

PRODUCT NAME	A VK2-4MPXVRDIR28V12M	B VK2-4MPXBIR28V12M
PRODUCT CODE	0308050	0308040
Resolution (max)	4MP (16:9)	4MP (16:9)
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Sensor	1/3" CMOS	1/3" CMOS
Lens Type	2.8-12mm (motorised)	2.8-12mm (motorised)
Sensitivity	0.14Lux (colour), 0Lux (mono - IR on)	0.14Lux (colour), 0Lux (mono - IR on)
IR Illumination	25m	30m
Streams	4	4
Frame Rate (max)	25ips	25ips
WDR	True (120dB)	True (120dB)
Video Content Analysis	Tamper/iVMD/Intrusion	Tamper/iVMD/Intrusion
Alarms	1 in/1 out	1 in/1 out
Audio	1 in/1 out	1 in/1 out
On-Board Storage	SDHC/SDXC	SDHC/SDXC
PoE	IEEE802.3af compliance, Class0	IEEE802.3af compliance, Class0
Power	PoE (8.5W) 12VDC (7.6W)	PoE (9W) 12VDC (8W)
Operating Temperature	-20 to +50°C	-20 to +50°C
IP Rating	IP66	IP66
Vandal Resistance	IK10 (BS EN 62262)	IK0
Colour	White	White
Bracketry	See page 78	See page 78

MOUNTING OPTIONS

There are mounting options available for Vista's VK2 Static Cameras

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Range Overview

The 3MP cameras provide a careful balance between price and performance, combined with high quality video to offer solutions for internal or external applications.

Highlights of Range

- Motorised Lens: Allows the engineer to set the lens up from the camera webpage or NVR making set up and adjustment easier and quicker
- EasyFit Technology: Simply fit to ceiling or soffit and adjust the pan, tilt and lens' field of view remotely, making installation, or any required changes, quicker and easier
- STARVIS™ Technology: Uses Sony's latest 1/3" back illuminated CMOS technology to deliver exceptional quality colour images in low light scenes, where typically only black and white images would have been achievable

KEY RANGE FEATURES

- 3MP RESOLUTION
- TRIPLE STREAMING
- 30IPS AT 3MP
- MOTORISED OR FIXED LENSES
- DWDR, BLC, VCA, PRIVACY ZONES AND MOTION DETECTION
- VISTA EVENT BOOST™ TECHNOLOGY
- ALARM & AUDIO IN/OUT
- POWER OVER ETHERNET OR 12VDC OPERATION
- ONVIF PROFILE S COMPLIANT

3MP HD | TRIPLE STREAM | STARVIS

A

EASYFIT TECHNOLOGY

B

PRODUCT NAME	A VK2-3MPMD26e	B VK2-3MPEFEDre
PRODUCT CODE	0207350	0785380
Resolution (max)	3MP (4:3)	3MP (4:3)
Video Compression	H.264/MJPEG	H.264/MJPEG
Sensor	1/2.8" Sony STARVIS™	1/2.8" Sony STARVIS™
Lens Type	2.6mm (fixed)	2.8-12mm (motorised)
Sensitivity	0.2Lux (colour), 0.1Lux (mono)	0.2Lux (colour), 0Lux (mono - IR on)
IR Illumination	-	30m
Motorised Pan & Tilt	-	357° Pan/100° Tilt
Frame Rate (max)	30ips	30ips
WDR	DWDR (72dB)	DWDR (72dB)
Video Content Analysis	Line/Field	Line/Field
PoE	IEEE802.3af compliance, Class0	IEEE802.3af compliance, Class0
Power	PoE (4W) 12VDC (3.6W)	PoE (7.7W) 12VDC (7.3W)
Operating Temperature	-10 to +45°C	-20 to +50°C
IP Rating	IP30 (internal)	IP66
Vandal Resistance	IK0	IK10
Colour	White	White
Bracketry	See page 78	See page 78

MOUNTING OPTIONS

There are mounting options available for Vista's VK2 Static Cameras

SEE PAGE 78

Range Overview

At Vista we know that not all system requirements are the same and sometimes more than a standard camera is required. For this we have specialist cameras to help you provide a suitable solution.

Fisheye Cameras

We offer either 5MP internal or 12MP External Fisheye camera options. The 12MP also includes IR illumination and is IK10 vandal resisitant rated. Both cameras use Sony STARVIS™ technology ensuring that images are clear, even in low light applications. Full dewarping of the image is possible via Viper IP, Viper Central and other compatible VMS.

Highlights

- 5MP resolution: Greater detail
- 1.05mm lens: Give a full 360° x 182° image (extreme wide angle)
- STARVIS™ Low Light Technology: Produces very clear images in low light applications

KEY RANGE FEATURES

- 360° FISHEYE
- INTERNAL AND EXTERNAL OPTIONS
- VANDAL RESISTANT OPTION
- IR ILLUMINATION
- WIDE DYNAMIC RANGE
- PoE OR 12VDC

360° FISHEYE | 3MP HD | STARVIS

A

B

ONVIF

PRODUCT NAME	A VK2-5MP360INT	B VK2-12MPX360EXTIR
PRODUCT CODE	0765520	0580270
Resolution (max)	5MP	12MP
Video Compression	H.264/MJPEG	H.265/H.264/MJPEG
Sensor	1/1.8" Sony STARVIS™	1/1.7" Sony Starvis CMOS
Lens Type	1.05mm (fixed)	1.9mm (fixed)
Sensitivity	0.2Lux (colour), 0.1Lux (mono)	0 Lux IR on
IR Illumination -	No	6 IR LEDs 15M
Frame Rate (max)	15ips	25ips
WDR	DWDR (72dB)	TWDR (120dB)
Video Content Analysis	Line/Field	Tampering, iVMD, Intrusion Detector
PoE	IEEE802.3af compliance, Class0	IEEE802.3af compliance, Class0
Power	PoE (5.3W), 12VDC (4.8W)	190mA (8.5W) @PoE / 710mA (7.6W) @12VDC
Operating Temperature	-10 to +50°C	-20 to +50°C
IP Rating	IP30 (internal)	IP66
Vandal Resistant	no	IK10
Colour	White	White and Black
Bracketry	See page 78	See page 78

MOUNTING OPTIONS

There are mounting options available for Vista's VK2 Static Cameras

SEE PAGE 78

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Number Plate Camera

The VK2-1080XNPR10Z has been designed specifically to catch images of vehicle number plates. Its 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 headlights obscuring the plate.

Highlights

- 1080p resolution: Excellent detailed licence plate images
- 3-15m range: The 10:1 zoom lens has 12 presets from 3-15m in 1m increments. This helps to reduce set up time, ensure that the field of view is correct for the distance and ensures optimum reading settings
- ONVIF Profile S: Use with the VANPC IP number plate recognition system, or by using Viper, simply record video footage of vehicles. It is also ONVIF S compliant so can be used on many 3rd party IP recording systems
- STARVIS™ Low Light Technology: Produces very clear images in low light applications

KEY RANGE FEATURES

- 15M RANGE
- PRESET LENS POSITION
- IR ILLUMINATION
- NUMBER PLATES 24/7
- 1080P
- H.264
- POE

15M RANGE | 1080P HD | STARVIS

A

PRODUCT NAME	A VK2-1080XNPR10Z
PRODUCT CODE	0771280
Resolution (max)	1080p (16:9)
Video Compression	H.264/MJPEG
Sensor	1/2.8" Sony STARVIS™
Lens Type	5.1-51mm (motorised)
Sensitivity	0Lux (mono - IR on)
IR Illumination	25m
Motorised zoom	12 presets
Read range	3-15m
Frame Rate (max)	50ips
WDR	True (120dB)
Video Content Analysis	Line/Field
PoE	IEEE802.3af compliance, Class0
Power	PoE (22.6W) 12VDC (19.2W)
Operating Temperature	-30 to +50°C
IP Rating	IP66
Vandal Resistance	IK10
Colour	White
Bracketry	See page 78

MOUNTING OPTIONS

There are mounting options available for Vista's VK2 Static Cameras

SEE PAGE 78

Range Overview

The VK2-HDX PTZ cameras offer 1080p, H.265 format and utilise Sony STARVIS™ technology for excellent images in low light conditions. With 20:1 or 23:1 zoom, this allows the camera to get the detail required for the application. For areas without ambient light the VK2-HDX23IR-SM camera provides up to 60m illumination. The sealed design on both models reduces the chance of condensation when fitting and include "quick-fit" design to reduce both installation time and provide strain relief on the flying lead.

Highlights of Range

- STARVIS™ Technology: Using Sony's latest 1/3" back illuminated CMOS technology to deliver exceptional quality colour images in low light scenes, where typically only black and white images would have been achievable
- 60m IR: 4 high powered IR LEDs provide up to 60m illumination, with Smart IR technology for optimum images in low or zero light
- Quick-fit surface mount design: There is no need to open the dome during installation therefore avoiding the chance of condensation. This reduces installation time and ensures effective operation

KEY RANGE FEATURES

- 1080P RESOLUTION
- 20:1 OR 23:1 LENS
- H.265 & QUAD STREAMING (HDX23)
- H.264 & TRIPLE STREAMING (HD20)
- 256 PRESETS/8 TOURS
- 120DB WIDE DYNAMIC RANGE (WDR)
- BLC, VCA, PRIVACY ZONES AND MOTION DETECTION
- VISTA EVENT BOOST™ TECHNOLOGY
- 4 ALARM INPUTS AND 1 OUTPUT
- AUDIO IN/OUT
- ONVIF PROFILE S COMPLIANT

1080P HD | H.264 VIDEO | H.265 VIDEO | STARVIS

A

B

PRODUCT NAME	A VK2-HDX20-SMW	B VK2-HDX23IR-SMW
PRODUCT CODE	0498870	0392820
Sensor	1/3" Sony STARVIS™	1/2.8" Sony STARVIS™
Lens	20:1 (4.7-94mm)/16x	23:1 (5-117mm)/16x
IR Illumination	-	60m
Min Illumination	0.35Lux (colour), 0.013Lux (mono) @ 50 IRE	0.35Lux (colour), 0Lux (mono - IR on)
Max Resolution	1080p	1080p
Frame Rate	25ips	25ips
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Streams	4	4
WDR	True (120dB)	True (120dB)
Video Content Analysis	Tamper/iVMD/Intrusion	Tamper/iVMD/Intrusion
Alarms	4 in/1 out	4 in/1 out
Audio	1 in/1 out	1 in/1 out
On-Board Storage	SDHC/SDXC	SDHC/SDXC
PoE	802.3af Class 0 (PoE)	IEEE802.3at compliance, Class0
Power	PoE+ (22W) 12VDC (22W)	PoE+ (22W) 12VDC (22W)
Operating Temperature	-10 to +50°C	-10 to +50°C
IP Rating	IP66	IP66
Vandal Resistance	IK10 (EN 62262)	IK10
Colour	White	White
Bracketry	See page 79	See page 79

MOUNTING OPTIONS

There are mounting options available for Vista's VK2 PTZ Cameras

SEE PAGE 79

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Range Overview

The VK2-4K cameras offer an impressive range of high end features. As well as the UHD resolution, which guarantees incredibly detailed images, the cameras feature TWDR, alarm and audio inputs, SD card local recording and high end video analytic features. The housings are aesthetically designed but are also robustly built and are IK10 certified.

Highlights of Range

- 4K resolution - Ensure incredibly detailed recorded images
- Advanced Video Content analytics - Allows the cameras to analyse the scene and detect incidents, such as people entering defined areas, or crossing a line in the wrong direction
- Hi-Stream function - Regions of Interest within the scene can be set to have less compression and higher record rates compared with other areas that are given higher compression lower frame rates, so allow savings in bandwidth and storage requirements
- IR illumination, both cameras utilise IR illumination, on the PTZ dome. This tracks the zoom lens so allowing an up to 300m IR range

KEY RANGE FEATURES

- UHD 4K RESOLUTION
- LOW LIGHT SONY STARVIS CHIP SET
- H.265 VIDEO FORMAT
- IR ILLUMINATION (300M PTZ)
- TWDR
- VIDEO CONTENT ANALYTICS
- HI - STREAM FUNCTION

4K UHD | H.265 VIDEO | STARVIS

A

ONVIF S

B

ONVIF S

PRODUCT NAME	A VK2-4KXVRDIR36V11M	B VK2-4KX30IR-PM
PRODUCT CODE	0494710	0494720
Sensor	1/2.5" Sony Starvis CMOS Sensor	1/1.7" Sony Starvis CMOS Sensor
Lens	3.6-11mm Motorized	Optical Zoom 30X, 6~180mm
IR Illumination	28 IR LEDs up to 30m @80° horizontal	Synchronized IR LED, Fixed IR LED, up to 300m
Max resolution	4K	4K
Frame rate	Max 25 ips	Max 25 ips
Video Compression	H.265 / H.264	H.265 / H.264
Streams	4	4
WDR	Yes - TWDR	Yes - TWDR
Video Content Analysis	Tampering, iVMD, Intrusion Detector, Line crossing, Loitering, Human Detect	Tampering, iVMD, Intrusion Detector, Line crossing, Loitering, Human Detect
Alarms	1 in / 1 out	1 in / 1 out
Audio	Yes G.711	Yes G.711
On Board Storage	Yes - SDHC, SDXC	Yes - SDHC, SDXC
PoE	PoE (IEEE802.3af Compliance, Class0)/12VDC	PoE (IEEE 802.3bt Compliance, Class5), 12VDC
Power	200mA(9.6W)@PoE / 690mA(8,3W)@12VDC	500mA(28W)@PoE+ / 2.3A(28W)@12VDC
Operating Temp	-20°C to +50°C	-30°C to +55°C
IP Rating	IP66	IP66
Vandal Resisitance	IK10	IK10
Colour	White	White
Bracketry	See Page 78	See Page 79

MOUNTING OPTIONS

There are mounting options available for Vista's VK2 4KX Cameras

SEE PAGE 78/79

Range Overview

Optio IP cameras come in bullet, eyeball and vandal dome options with the choice of varifocal or fixed lens.

Cleverly developed with just the most popular models and features, Optio offers a carefully selected range of surveillance camera options ideal for the majority of applications across the small commercial and residential market.

Highlights of Range

- Bullet cameras provide the perfect commercial solution – they offer a visible deterrent and have extended IR capability for quality images in low light conditions
- The vandal dome camera is a popular choice for retail and offices as they are vandal resistant with a small, discreet footprint
- Eyeball or Turret cameras have a low aesthetic profile, are extremely versatile and provide great low light performance, making them a good choice for large residential
- Choose the lens type to suit your needs – fixed or varifocal

KEY RANGE FEATURES

- HIGH RESOLUTION IMAGES
- POWER OVER ETHERNET
- 4MP TRUE DAY/NIGHT SENSOR
- IP67 – OUTSIDE INSTALLATIONS
- INTEGRATED IR ILLUMINATION, EXCELLENT LOW LIGHT PERFORMANCE
- VARIFOCAL (ZOOM) LENS OR FIXED (WIDE ANGLE) LENS
- UP TO 100M CAT5E CABLE RUNS

4MP HD

TDN

A

B

C

D

PRODUCT NAME	A OPI4ED28IR	B OPI4ED28V12IR	C OPI4VD28IR	D OPI4VD28V12IR
PRODUCT CODE	0485900	0485910	0485920	0485930
Image Sensor	1/3" 4MP progressive CMOS	1/3" 4MP progressive CMOS	1/3" 4MP progressive CMOS	1/3" 4Megapixel progresive CMOS
Effective Pixels	2560(H)x1440(V)	2560(H)x1440(V)	Auto/Manual, 1/3~1/100000s	2560(H)x1440(V)
Minimum Illumination	0.09Lux/F2.0 (Colour,1/3s,30IRE) 0.5Lux/F2.0 (Colour,1/30s,30IRE) 0Lux/F2.0(IR on)	0.05Lux/F1.8 (Colour,1/3s,30IRE) 0.3Lux/F1.8 (Colour,1/30s,30IRE) 0Lux/F1.8(IR on)	0.09Lux/F2.0 (Colour,1/3s,30IRE) 0.5Lux/F2.0 (Colour,1/30s,30IRE) 0Lux/F2.0(IR on)	0.05Lux/F1.8 (Colour,1/3s,30IRE) 0.3Lux/F1.8 (Colour,1/30s,30IRE) 0Lux/F1.8(IR on)
IR Distance	Distance up to 30m (98ft)	Distance up to 50m (164ft)	Distance up to 30m (98ft)	Distance up to 30m (98ft)
Lens Type	Fixed	Motorised	Fixed	Motorised
Compression	H.265/H.264/H.264B/ MJPEG (Sub Stream)	H.265/H.264/H.264B/ MJPEG (Sub Stream)	H.265/H.264/H.264B/ MJPEG (Sub Stream)	H.265/H.264/H.264B/ MJPEG (Sub Stream)
Streaming Capability	2 Streams	2 Streams	2 Streams	2 Streams
Resolution	4MP (2560x1440), 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720), VGA (640×480), D1 (704×576/704×480), CIF (352×288/352×240)	4MP (2560x1440), 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720), VGA (640×480), D1 (704×576/704×480), CIF (352×288/352×240)	4MP (2560x1440), 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720), VGA (640×480), D1 (704×576/704×480), CIF (352×288/352×240)	4MP (2560x1440), 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720), VGA (640×480), D1 (704×576/704×480), CIF (352×288/352×240)
Frame Rate	Main Stream: 4M (1 ~ 20ips) Sub Stream: D1 (1 ~ 20ips)	Main Stream: 4M (1 ~ 20ips) Sub Stream: D1 (1 ~ 25/30ips)	Main Stream: 4M (1 ~ 20ips) Sub Stream: D1 (1 ~ 20ips)	Main Stream: 4M (1 ~ 20ips) Sub Stream: D1 (1 ~ 25/30ips)
BLC Mode	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Edge Storage	NA	Micro SD Card 128GB	NA	Micro SD Card 128GB
Power Consumption	4.8W	DC12V: 1.8W, 5.3W (IR On) PoE: 2.2W, 6.3W (IR On)	3.9W	DC12V: 1.8W, 5.3W (IR On) PoE: 2.2W, 6.3W (IR On)
Ingress Protection	IP67	IP67	IP67	IP67
Vandal Resistant	N/A	N/A	IK10	IK10

Note: *If using Optio IP cameras on Viper NVRs, please contact Technical Support, who will supply a step by step guide on how to configure the cameras and NVR.*

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SEE PAGE 11

INTRODUCING THE OPTIO

Product Selector

The easy step-by-step selection process makes for simple, stress-free ordering.

norbain.com/product-selectors/optio

E

F

PRODUCT NAME	E OPI4BL28IR	F OPI4BL28V12IR
PRODUCT CODE	0485880	0485890
Image Sensor	1/3" 4 Megapixel progresive CMOS	1/3" 4 Megapixel progresive CMOS
Effective Pixels	2560(H)x1440(V)	2560(H)x1440(V)
Minimum Illumination	0.09Lux/F2.0 (Colour,1/3s,30IRE) 0.5Lux/F2.0 (Colour,1/30s,30IRE) 0Lux/F2.0 (IR on)	0.05Lux/F1.8 (Colour,1/3s,30IRE) 0.3Lux/F1.8 (Colour,1/30s,30IRE) 0Lux/F1.8 (IR on)
IR Distance	Distance up to 30m (98ft)	Distance up to 60m (197ft)
Lens Type	Fixed	Motorised
Focal Length	2.8mm	2.8mm~12mm
Compression	H.265/H.264/H.264B/MJPEG (Sub Stream)	H.265/H.264/H.264B/MJPEG (Sub Stream)
Streaming Capability	2 Streams	2 Streams
Resolution	4M (2560x1440), 3M (2304×1296), 1080P (1920×1080), 720P (1280×720), VGA (640×480), D1 (704×576/704×480), CIF (352×288/352×240)	4M (2560x1440), 3M (2304×1296), 1080P (1920×1080), 720P (1280×720), VGA (640×480), D1 (704×576/704×480), CIF (352×288/352×240)
Frame Rate	Main Stream: 4M (1 ~ 20fps) Sub Stream: D1 (1 ~ 25/30fps)	Main Stream: 4M (1 ~ 20fps) Sub Stream: D1 (1 ~ 25/30fps)
BLC Mode	BLC / HLC / DWDR	BLC / HLC / DWDR
Edge Storage	NA	Micro SD Card 128GB
Power Consumption	4.2W	DC12V: 1.8W, 8.2W (IR On) PoE: 2.2W, 9.8W (IR On)
Ingress Protection	IP67	IP67
Vandal Resistant	NA	N/A

MOUNTING OPTIONS

There are mounting options available for the Optio range of cameras

Optio by vista

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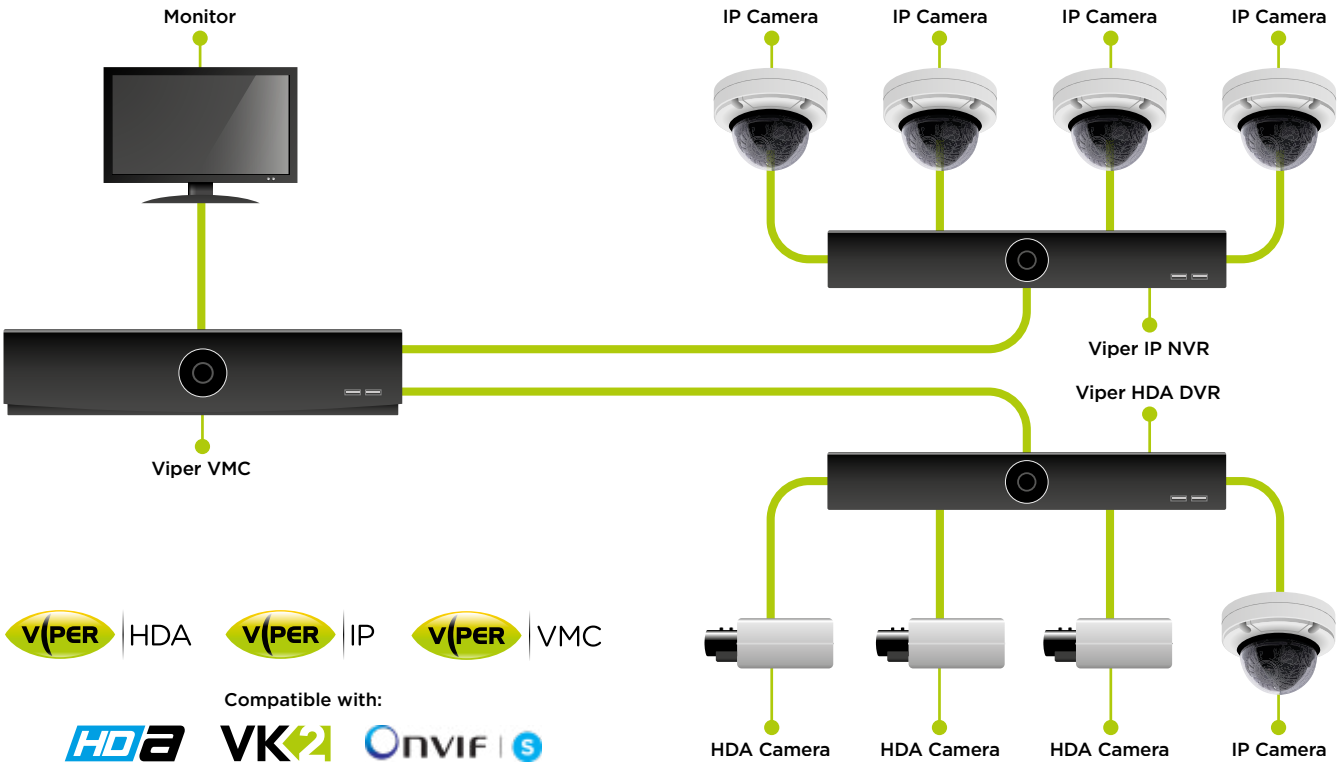
VISTA VIPER RANGE

The Vista Viper range allows you to simply pull together Viper HDA DVRs and Viper IP NVRs, into a single, seamless system.

The Viper Virtual Matrix Controller (VMC) gives you complete control of the system through the uniform and intuitive central management software.



VIPER HDA VIPER IP VIPER VMC

Compatible with:

HDA VK21 ONVIF S

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VIPER IP

SEE PAGE 54

Viper IP NVRs Overview

The Viper NVRs are available in 4 to 32 channel options, with various sizes of internal storage to suit most situations. The PoE and plug and play functionality make them simple to install and commission saving you valuable time on site. The unique "WARP" feature allows a Master unit to display the cameras from multiple Viper units networked together, giving you flexibility of design while removing the cost of a Client PC.

VIPER VMC

SEE PAGE 29

Viper VMC Overview

Pull together the Viper HDA DVRs and Viper IP NVRs into a single seamless system with one uniform and intuitive front end by using the Viper Virtual Matrix Controller (VMC).

VIPER REMOTE

SEE PAGE 27

Viper Remote Overview

Viper Remote is a fully featured mobile app that can connect to any Viper recording device, providing you with remote access whilst you are on the move. It offers push notifications to alert the end user of triggered alarms, allowing them to take immediate action. It also features live and recorded viewing of footage across a range of connected recorders, as well as camera control.

Optio IP by vista

SEE PAGE 57

Optio IP NVRs Overview

Optio by Vista network video recorders are ideally suited to work alongside the Optio IP camera range. Optio offer a series of 4, 8 and 16-channel IP CCTV recorders offering efficient compression and smart fan technology for energy and noise reduction.

Viper Remote App

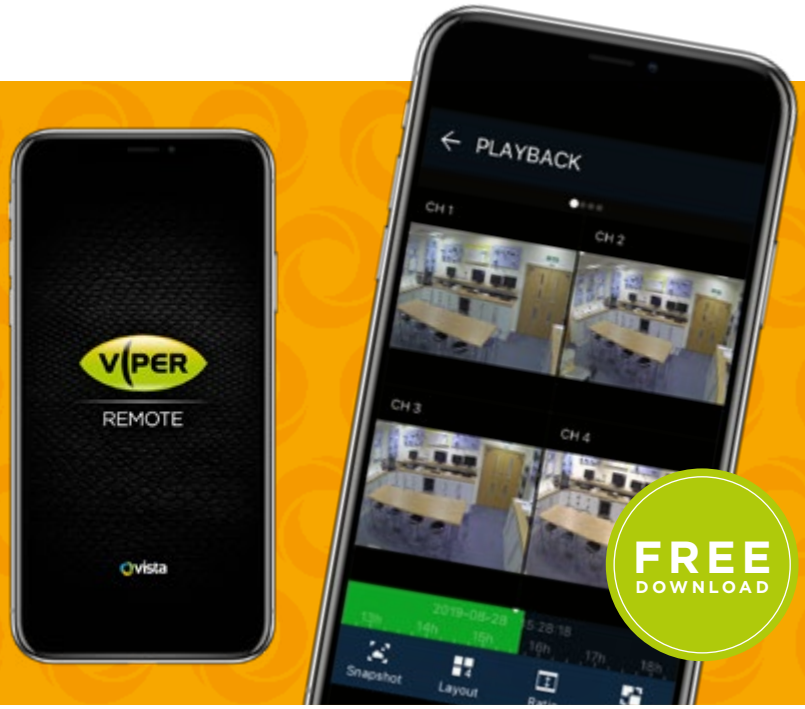
This app allows the user to remotely connect to Viper recorders using either an iOS or Android device.

Features include:

- PTZ control
- View live and recorded images
- Event push
- P2P connection

Available on the iPhone App Store

ANDROID APP ON Google play



Range Overview

The Viper H5S is a 4K UHD realtime H.265 NVR with 4, 8 or 16 channels of recording. With direct monitor connection and easy to use mouse driven menu, set up is kept simple and a Client PC is not required. With PoE ports on the rear, VK2 cameras are auto configured on connection and other cameras can be added via ONVIF Profile S.

Highlights of Range

- Standalone NVR: Installation time and cost can be reduced as a Client PC is not required for set up. Just use the intuitive GUI to set the camera up as you require
- EPOS integration: VSI-PRO retail till interface allows data from the till to be displayed and recorded on the video stream and as metadata, making it possible for smart searches on specific text (e.g. "No Sale")
- Keyboard support for PTZ: Using the ViperKBD provides familiar, simple and responsive control of PTZ domes

KEY RANGE FEATURES

- H.265 COMPRESSION
- 4, 8, & 16 CHANNEL MODELS
- 4K REALTIME RECORDING
- POE AND AUTO CONNECTION TO VK2 CAMERAS
- HDMI & VGA FOR DIRECT MONITOR CONNECTION
- EPOS INTEGRATION
- HARDWARE AND SOFTWARE ALARM INPUTS
- PTZ CONTROL VIA MOUSE OR OPTIONAL VIPERKBD
- AUDIO IN/OUT
- ARCHIVE OVER USB OR VIA CLIENT
- ONVIF PROFILE S COMPLIANT

4K UHD | **H.265** VIDEO | **4/8/16** CHN

A

B

PRODUCT NAME	A VIPER-H5S-04-000	B VIPER-H5S-08-000	B VIPER-H5S-16-000
PRODUCT CODE	0394450	0394460	0394470
Channels	4	8	16
Display Output	HDMI/VGA		
Display Resolutions	1080p/720p/1280x1024(SXGA)/1024x768(XGA)		
Compression	H.265		
Audio In	1 (RCA), 4 (IP Camera)	1 (RCA), 8 (IP Camera)	1 (RCA), 16 (IP Camera)
Audio Out	1 RCA Line-out/HD Output		
Record Rate	100ips@4K	200ips@4K	400ips@4K
Display Rate	5MP (Realtime) 1/4 Split	5MP (Realtime) 1/4 Split D1 (Realtime) 1/4/9 Split	5MP (Realtime) 1/4 Split D1 (Realtime) 1/4/6/9/16 Split
Playback Speed	Realtime 1/4 Split	Realtime 1/4/9 Split	Realtime 1/4/9/16 Split
Network Throughput	72Mbps	128Mbps	256Mbps
HDD Bays	1	2	
External Storage	e-SATA		
USB	2 x USB2 , 1 x USB3		
Archive	USB, Network		
Alarm Inputs	4 (Hardwire), 4 (Software)	8 (Hardwire), 8 (Software)	8 (Hardwire), 16 (Software)
Alarm Outputs	1 (Hardwire)		
Ethernet	1 x 1Gbit		
PoE Ports	4 x 100Mbps, IEEE 802.3af (PoE)	8 x 100Mbps, IEEE 802.3af (PoE)	16 x 100Mbps, IEEE 802.3af (PoE)
Serial Interface	USB to Serial/RS485 (Keyboard)		
PoS/ATM	Yes (with VSSI-Pro, ASCII, Network)		
Rack Mountable	VIPER-1U-RM (0567480)		

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Range Overview

The Viper H5 is capable of dual encoding both the next generation H.265 and H.264 cameras. With 32 channel recording, its functionality is like its H.264 sibling with the added benefit of a 4K realtime recording. With direct monitor connection and an easy to use mouse driven menu, set up is kept simple and a Client PC is not required. With PoE ports on the rear VK2 cameras are auto configured on connection. Other cameras can be added via ONVIF Profile S.

Highlights of Range

- Standalone NVR: Installation time and cost can be reduced as a Client PC is not required for set up. Just use the intuitive GUI to set the camera up as you require
- EPOS integration: VSI-PRO retail till interface allows data from the till to be displayed and recorded on the video stream and as metadata, making it possible for smart searches on specific text (e.g. “No Sale”)
- Keyboard support for PTZ: Using the ViperKBD or VKBD4 provides a familiar, simple and responsive control of PTZ domes

C

KEY RANGE FEATURES

- H.265 & H.264 COMPRESSION
- 32 CHANNEL
- 8MP REALTIME RECORDING
- POE AND AUTO CONNECTION TO VK2 CAMERAS
- HDMI & VGA FOR DIRECT MONITOR CONNECTION
- EPOS INTEGRATION
- HARDWARE AND SOFTWARE ALARM INPUTS
- PTZ CONTROL VIA MOUSE OR OPTIONAL VIPERKBD/VKBD4
- AUDIO IN/OUT
- ARCHIVE OVER USB OR VIA CLIENT
- ONVIF PROFILE S COMPLIANT
- 19” RACKMOUNT

8MP	H.264	H.265
HD	VIDEO	VIDEO

SEE PAGE 29 FOR VIPER VMC

PRODUCT NAME	B VIPER-H5-32-000
PRODUCT CODE	0804030
Channels	32
Display Output	HDMI/VGA
Display Resolutions	4K/1080p/720p/1280x1024 (SXGA)/1024x768 (XGA)
Compression	H.265/H.264
Audio In	1 (RCA), 32 (IP Camera)
Audio Out	1 RCA Line-out/HD Output
Record Rate	800ips@8MP
Display Rate	8MP (Realtime) 1/4 Split D1 (Realtime) 1/4/6/9/16/32 Split
Playback Speed	120ips@8MP (4K), 240ips@5MP, 360ips@3MP, 480ips@1080p, 960ips@720p, 1920ips@D1
Network Throughput	320Mbps
HDD Bays	4
External Storage	e-SATA
USB	2 x USB2 , 1 x USB3
Archive	USB, Network
Alarm Inputs	16 (Hardwire), 32 (Software)
Alarm Outputs	4 (hardwire)
Ethernet	1 x 1Gbit
PoE Ports	16 x 100Mbps, IEEE 802.3af (PoE)
Serial Interface	USB to Serial/RS485 (Keyboard)
PoS/ATM	Yes (with VSSI-Pro, ASCII, Network)
Rack Mountable	Supplied separately 0813380

TALK TO US
ABOUT HDD STORAGE SIZE

Range Overview

The powerful VIPER H5-49R NVR is aimed at hi-end large systems. This NVR is capable of recording 49 x 4K cameras in real-time H.265. This combined with the inclusion of hardware raid makes it ideal for more advanced systems.

The NVR is housed in a 2U high server type rack mount chassis, allowing them to be installed in standard 19" rack mount cabinets. The chassis is designed to hold up to 8 swappable hard drives, making it is possible to have up to 80Tb of on-board storage.

The NVR has 2 HDMI connections, the main output supports 4K resolution, while the secondary output supports Full HD. If more monitor outputs are required for larger systems, then using Vista innovative PoE powered Monitors with in-built decoders makes it possible to display cameras at any point on the network.

Highlights of Range

- 49 channels of 4K resolution allows the installer greater flexibility in systems design
- Hardware Raid (0,1,5 and 10), allows the Viper to conform to more rigorous tender specifications
- 8 Hard drive bays, gives a massive 8-TB of on-board storage
- The ability to directly control Vista's innovative PoE decoder monitors allows the systems to be designed with multiple local or remote monitors.

KEY RANGE FEATURES

- H.265 & H.264 COMPRESSION
- 49 CHANNEL
- 8MP REALTIME RECORDING
- DUAL MONITOR OUTPUT 4K AND FULL HD HDMI CONNECTIONS
- EPOS INTEGRATION
- HARDWARE AND SOFTWARE ALARM INPUTS
- PTZ CONTROL VIA MOUSE OR OPTIONAL VIPERKBD/VKBD4
- AUDIO IN/OUT
- ARCHIVE OVER USB OR VIA CLIENT
- ONVIF PROFILE S COMPLIANT
- 19" RACKMOUNT

8MP	H.264	H.265
HD	VIDEO	VIDEO

SEE PAGE 29 FOR VIPER VMC

A

COMING SOON April 2020

immix SureView systems

PRODUCT NAME	A VIPER-H5-49R-000
PRODUCT CODE	0683100
Video input	49 IP cameras
Input resolution	Up to 4K (8MP)
Compression	H265 / H264
Display Output	2 HDMI (Main 4K, Sub 1080P)
Display mode	1/4/9/16/25/30/36/49 Split, Sequence, PIP
Recording speed	1225 FPS @ 8MP
Max recording throughput	192Mbps (4Mbp/chn)
Simultaneous Playback	1/4/9/16/25/30/36/49 Split
Playback mode	Rewind and forward play 1-64X speed
Search Mode	Time, Event, Thumbnail, Smart(Motion), Text, VCA
Internal hard disks	8 SATA Interface (8 HDD)
RAID	0,1, 5.and 10
Back up	USB or Network
Ethernet	2 RJ45 10/100/1000 Base-T
Remote monitoring	Viper Central, Viper Remote, Dashboard
Audio in	1 RCA, 49 IP cameras
Audio out	1 RCA, 1 HDMI
Alarm input	4 input terminal block, 49 IP cameras
Alarm output	2 output terminals
Serial output	2 RS485 terminal for PTZ and Keyboard
USB	2 USB2.0, 1 USB3.0

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Range Overview

Optio by Vista network video recorders are ideally suited to work alongside the Optio IP camera range. Optio offer a series of 4, 8 and 16-channel IP CCTV recorders offering efficient compression and smart fan technology for energy and noise reduction.

Highlights of Range

- Power over Ethernet (PoE)
- Up to 100m CAT5e cable runs
- Higher resolution image capture up to 8MP

KEY RANGE FEATURES

- 4K HDMI DISPLAY
- SMART FAN TECHNOLOGY: ENERGY & NOISE REDUCTION
- H.265 SMART CODEC EFFICIENT COMPRESSION
- PoE PER CHANNEL

4K DISPLAY | **H.265** VIDEO

A

B

TALK TO US **ABOUT HDD STORAGE SIZE**

PRODUCT NAME	A OPNVR04	A OPNVR08	B OPNVR16
PRODUCT CODE	0485990	0485980	0485970
Channels	4 Channel	8 Channel	16 Channel
Display Resolution	HDMI @ 4K, VGA @ 1080	HDMI @ 4K, VGA @ 1080	HDMI @ 4K, VGA @ 1080
Compression	H.265/ H.264	H.265/ H.264	H.265/ H.264
Audio In/Out	1/1	1/1	1/1
Decoding Capacity	1ch@8MP 30ips, 4ch@1080P 30ips	1ch@8MP 30ips, 4ch@1080P 30ips	2ch@4K 30ips, 8ch@1080P 30ips
Multi-screen Display	1/4	1/4/8	1/4/8/9/16
Search Mode	Time /Date, MD and Exact Search (accurate to second), Smart search	Time /Date, MD and Exact Search (accurate to second), Smart search	Time /Date, MD and Exact Search (accurate to second), Smart search
Record Resolution	8MP/6MP/5MP/4MP/3MP/1080P/720P/D1, etc.	8MP/6MP/5MP/4MP/3MP/1080P/720P/D1, etc.	8MP/ 6MP/ 5MP/ 4MP/ 3MP/ 1080P/ 1.3MP/ 720P, etc.
Network Throughput	80Mbps	80Mbps	200Mbps
Internal HDD	1 SATA III Port, Up to 10 TB capacity for each HDD	1 SATA III Port, Up to 10 TB capacity for each HDD	2 SATA III Ports, Up to 10 TB capacity for each HDD
USB	2 ports (1 Rear USB2.0, 1 Front USB2.0	2 ports (1 Rear USB2.0, 1 Front USB2.0)	2 ports(1 USB2.0, 1 USB3.0)
Backup Mode	USB Device/Network	USB Device/Network	USB Device/Network
Alarm In/Out	N/A	N/A	1/4
Ethernet Port	1 Independent 1000Mbps Ethernet Port	1 Independent 1000Mbps Ethernet Port	1 Independent 1000Mbps Ethernet Port
Remote Viewing	Optio Central / IE / Android / iPhone	Optio Central / IE / Android / iPhone	Optio Central / IE / Android / iPhone
PoE Ports	4 ports (IEEE802.3at/af) PoE: Max 25.5w for single port, 50w in total	8 ports (IEEE802.3at/af) PoE: Max 25.5w for single port, 50w in total	16 ports (IEEE802.3at/af) PoE: Max 25.5w for single port, 130w in total
Dimensions	1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9")	260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9")	1U, 375mm×327.5mm×53mm (14.8" x 12.9" x2.1")

Vista i5 PC overview

The Vista Client PC has been designed specifically for the video surveillance market. Its powerful performance and small size make this the perfect Video Management System (VMS) viewing client.

Vista i5 PC specification

Processor: Intel i5 3.5GHz Quad Core
Memory: 8GB
Operating System Disk Space: 120GB SSD
Recording Disk Space: Up to 120TB
Graphics: Dedicated 1GB Nvidia (Dual Monitor)
Power Requirements: 150W
Operating System: Windows 10 Pro 64-bit

A

KEY RANGE FEATURES

- SOLID STATE OS DISK (QUICK BOOT)
- UP TO 20TB ON-BOARD STORAGE
- INTEL i5 PROCESSOR
- COMPATIBLE WITH VIPER CENTRAL
- SUPPORT FOR 3RD PARTY VMS CLIENTS

Requires keyboard and mouse:
0657290 VISTAPC-KBDM

PRODUCT NAME	A VISTAPC-I5-CL-CLIENTPC W10 120GB	A VISTAPC-I5-CL-6TB SRV/CLIENT W10 120GB	A VISTAPC-I5-CL-10TB SRV/CLIENT W10 120GB	A VISTAPC-I5-CL-16TB SRV/CLIENT W10 120GB
PRODUCT CODE	0475360	0475370	0475380	0475390
Description	Client PC with i5, 120GB SSD & Windows 10	Server/Client PC with i5, 6TB HDD, 120GB SSD & Windows 10	Server/Client PC with i5, 10TB HDD, 120GB SSD & Windows 10	Server/Client PC with i5, 16TB HDD, 120GB SSD & Windows 10

Vista i7 PC overview

Vista's Client/Server PC has the performance and storage capacity, making it ideal for Video Management Systems.

Vista i7 PC specification

Processor: Intel i7 3.66GHz Quad Core
Memory: 16GB
Operating System Disk Space: 120GB SSD
Recording Disk Space: up to 120TB
Graphics: Dedicated 4GB Nvidia (Quad Monitor)
Power Requirements: 250W
Operating System: Windows 7 Pro 64-bit

B

KEY RANGE FEATURES

- SOLID STATE OS DISK (QUICK BOOT)
- UP TO 20TB ON-BOARD STORAGE
- INTEL i7 PROCESSOR
- COMPATIBLE WITH VIPER CENTRAL
- SUPPORT FOR 3RD PARTY VMS CLIENTS

Requires keyboard and mouse:
0657290 VISTAPC-KBDM

PRODUCT NAME	B VISTAPC-I7-CL-CLIENTPC W10 120GB	B VISTAPC-I7-CL-6TB SRV/CLIENT W10 120GB	B VISTAPC-I7-CL-10TB SRV/CLIENT W10 120GB
PRODUCT CODE	0475400	0475410	0652670
Description	Client PC with i7, 120GB SSD & Windows 10	Server/client PC with i7, 6TB HDD, 120GB SSD & Windows 10	Server/client PC with i7, 10TB HDD, 120GB SSD & Windows 10

PRODUCT NAME	B VISTAPC-I7-CL-16TB SRV/CLIENT W10 120GB	B VISTAPC-I7-CL-20TB SRV/CLIENT W10 120GB	B VISTAPC-I7-CL-24TB SRV/CLIENT W10 120GB
PRODUCT CODE	0652660	0652650	0652640
Description	Server/client PC with i7, 16TB HDD, 120GB SSD & Windows 10	Server/client PC with i7, 20TB HDD, 120GB SSD & Windows 10	Server/client PC with i7, 24TB HDD, 120GB SSD & Windows 10

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Overview

Vista's high powered 4, 8 and 16 port PoE switches are ideal for distributed architecture systems or smaller IP-based systems.

Our PoE switches offer the installer an effective solution for creating simple but powerful network designs. These compact switches allow connection to either 4, 8 or 16 local cameras, via the PoE ports. Each switch has dual up-link ports, one of which can be used to connect to a local server NVR, leaving the other up-link port for connection to the main network and Client PCs.

The PoE switches can run in 2 modes. In normal mode they operate as a standard network switch with communications between each of the PoE ports allowing the standard 90m transmission distance. With the flick of a switch CCTV mode is engaged turning off communication between the PoE ports but allowing communication between each individual port and the 2 up-link ports. This greatly extends the PoE transmission distance up to 250m.

The 4 port switch can deliver up to 60W, ideal for 4 static cameras, or 2 higher consumption PTZ domes. The 8 port switch can deliver up to 120W and 8 static or 4 PTZ cameras, and the 16 port switch up to 250W, and offers 16 static or 8 PTZ cameras.

KEY RANGE FEATURES

- CCTV MODE FOR 250M DISTANCE
- DUAL UP-LINK PORTS
- POE
- SUPPORTS POE+

Highlights of range

- CCTV Mode: With a flick of a switch CCTV mode can be enabled extending your PoE distance up to 250m

A

B

C

D

PRODUCT NAME	A QSW4	B QSW8	C QSW16	D QSW24
PRODUCT CODE	0766120	0766130	0486900	0486910
Number of PoE Ports	4 x 10/100Mbps	8 x 10/100Mbps	16 x 10/100Mbps	24 x 10/100Mbps
PoE Budget	60W	120W	250W	250W
Up-links	2 x 100Mbps	2 x 1000Mbps	2 x 1000Mbps	2 x 1000Mbps
Switch Capacity	1G	7G	7.2G	7.2G
Packet Data Cache	0.744Mbps	4.166Mbps	2.75Mbps	2.75Mbps
Transmission Distance	90m (standard mode)/250m (CCTV mode)	90m (standard mode)/250m (CCTV mode)	90m (standard mode)/250m (CCTV mode)	90m (standard mode)/250m (CCTV mode)
Power	48-57VDC	48-57VDC	48-57VDC	48-57VDC

Public Viewing Monitors

Public Viewing Monitors - Camera Models	62
Public Viewing Monitors - Decoder Models	64

PVM Overview

The Vista PVM range provides businesses with an effective way of discouraging unwanted behaviour whilst helping create a safe and welcoming environment.

The range is ideal for a wide variety of applications including protecting high risk areas in retail environments, preventing tailgating and buddy punching, ensuring health & safety requirements are adhered to and creating an enhanced customer experience.

KEY RANGE FEATURES

- 10"/27"/32" 16:9 SCREEN
- 1080P 3.6MM CAMERA
- MOTION DETECTION
- ONVIF PROFILE S
- SD CARD SLOT FOR ADVERTISING OR PROMOTIONAL PURPOSES
- VESA75 MOUNT

Highlights of Range

- Reduces shrinkage
- Protects profits
- Discourages unwanted behaviour
- Encourages desired behaviour
- Creates a secure, trusted environment
- Allows for simultaneous CCTV and advertising functionality
- Enhances customer experiences
- Additional revenue opportunity through supplier adverts or videos
- Display as a full screen or split screen view on decoder models

A

B

PRODUCT NAME	A VK2-PVM10CAM	B VK2-PVM27CAM	C VK2-PVM32CAM
PRODUCT CODE	0784310	0407030	0496450
LCD Panel	10.1" LED	27" LED	32" LED
Screen Size	(Diagonal) 256mm	(Diagonal) 685.65mm	(Diagonal) 800.1mm
Viewable Size (HxV)	217x136mm	597.6(H) x 336.15(V)	698.4(H) x 392.85(V)
Viewing Angle	(L/R/T/B) 85/85/85/85	178 / 178	178 / 178
Contrast Ratio	800:1	3000:1	3000:1
Brightness	250 cd/m2	220 cd/m2	220 cd/m2
Camera Resolution	1920x1080	1920x1080	1920x1080
Display Colour	16.7M	16.7M	16.7M
Response Time	25ms	25ms	25ms
Audio Output	1 x speaker	1 x speaker	1 x speaker
SD Card	SDHC / SDXC up to 128G	SDHC / SDXC up to 128G	SDHC / SDXC up to 128G
Video Decoding	H.265	H.265	H.265
Screen Resolution	720p	1080p	1080p
Lens	3.6mm (F2.0)	3.6mm (F2.0)	3.6mm (F2.0)
WDR	TWDR 120DB	TWDR 120DB	TWDR 120DB
Min Illumination	Colour: 0.1 Lux @F1.6 / BW: 0 Lux @F1.6	Colour: 0.1 Lux @F1.6 / BW: 0 Lux @F1.6	Colour: 0.1 Lux @F1.6 / BW: 0 Lux @F1.6
Power	12VDC (12W max)/PoE (IEEE 802.3AF)	24VDC (22W max)/PoE+ (IEEE 802.3AT)	24VDC (22W max)/PoE+ (IEEE 802.3AT)
Operating Temp	0 to +40°C	0 to +40°C	0 to +40°C
Storage Temp	-20 to +60°C	-20 to +60°C	-20 to +60°C
Housing	Metal	Metal	Metal
Weight (net/gross)	1.2/1.5kg	9.26/11.8kg	9.26/11.8kg
VESA Mount	VESA 75	VESA 200 x 200	VESA 200 x 200
Glass Fronted	Panel Gloss	Panel Gloss	Panel Gloss
Logo upload	Via Network (Up to 5 logos)	Via Network (Up to 5 logos)	Via Network (Up to 5 logos)
Logo activation	Via motion or sequence	Via motion or sequence	Via motion or sequence
Compatibility	ONVIF	ONVIF	ONVIF

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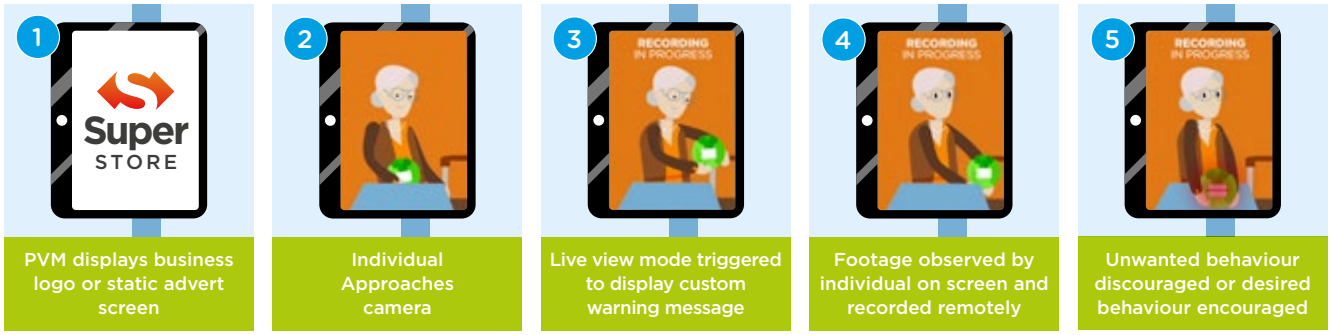
How the PVM Camera Models Work

Using motion detection, the in-built camera is activated when an individual approaches the monitor. The resulting high-definition image shows live footage of the individual and their actions in the immediate environment.



Applications

GYM

Challenges:

- Tailgating
- Offering targeted marketing

SCHOOL

Challenges:

- Verification of correct procedures
- Duty of care to staff and pupils

SUPERMARKET

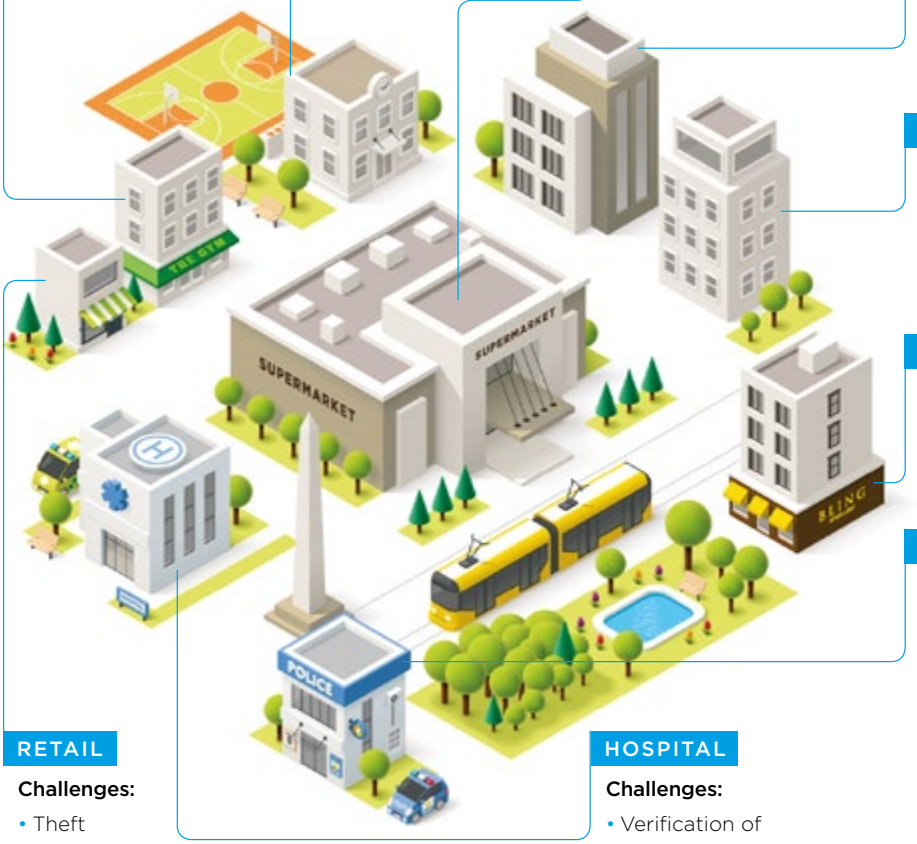
Challenges:

- Shrinkage
- Theft
- Customer experience
- Increased profits

LABORATORY

Challenges:

- Health & Safety obligations
- Clean rooms
- Complying with regulations



OFFICE/FACTORY

Challenges:

- Buddy punching
- Protecting people and assets

JEWELLER

Challenges:

- Theft
- Customer experience

POLICE STATION

Challenges:

- Verification of correct procedures

RETAIL

Challenges:

- Theft
- Shrinkage
- Creating a trusted & safe environment
- Monitoring unmanned areas
- Duty of care to staff and customers
- Offering targeted marketing

HOSPITAL

Challenges:

- Verification of correct procedures
- Duty of care to staff and patients

Watch Vista's VK2 PVM Overview **VIDEOS**

hubs.ly/H0jKTJ10

PVM Decoder Overview

Innovatively constructed to complement existing monitors with in-built cameras, the PVM-DECODER displays up to 16 cameras with the added benefit of showcasing promotions and informative messages.

This decoder can also be displayed in full screen or a multi-screen segment to suit your needs and can produce images for cameras anywhere on a network to be displayed in remote locations. The monitor and camera can be powered by PoE, making it a very quick and cost-effective method of installing a single CAT5e cable.

Suitable for remote monitoring stations and video walls, the PVM-DECODER can also showcase promotional advertisements, informative messages or can even be programmed to have information pop up when triggered by an event.

KEY RANGE FEATURES

- 18"/27"/32" 16:9 SCREEN
- 1080P
- IN-BUILT DECODER
- ONVIF PROFILE S
- SD CARD SLOT FOR ADVERTISING OR PROMOTIONAL PURPOSES
- VESA75 MOUNT

Highlights of range

- Allows simultaneous CCTV and advertising functionality
- Enhances customer experiences
- Additional revenue opportunity through supplier adverts or videos
- Display as a full screen or split screen view on decoder models

A

B

PRODUCT NAME	A VK2-PVM18DEC	B VK2-PVM27DEC	B VK2-PVM32DEC
PRODUCT CODE	0496570	0496580	0496590
Screen size	18.5"	27"	32"
Panel Type	LCD with LED back light	LCD with LED back light	LCD with LED back light
Viewable size	409.8 (H) x 230.4 (V)	597.6 (H) x 336.15 (V)	698.4 (H) x 392.85 (V)
Viewable angle	170°/160°	178°/178°	178°/178°
Contrast Ratio	1000:1	3000:1	3000:1
Brightness	250 cd/m2	220 cd/m2	200 cd/m2
Response time	5ms	12ms	8ms
Panel Resolution	1366x768	1920x1080	1920x1080
Display colours	16.7M	16.7M	16.7M
Compression	H.264, H.265	H.264, H.265	H.264, H.265
Display options	Full screen, 4 way, 9 way or 16 way split.	Full screen, 4 way, 9 way or 16 way split.	Full screen, 4 way, 9 way or 16 way split.
Camera resolutions	4K (max 4 cameras), 1080P for 16 way split	4K (max 4 cameras), 1080P for 16 way split	4K (max 4 cameras), 1080P for 16 way split
Display Speed	125/150ips (PAL/NTSC)	125/150ips (PAL/NTSC)	125/150ips (PAL/NTSC)
Media file display	AVI format (converted using supplied software)	AVI format (converted using supplied software)	AVI format (converted using supplied software)
Ethernet	1 RJ45 10/100/1000 Base-T	1 RJ45 10/100/1000 Base-T	1 RJ45 10/100/1000 Base-T
Max. Network Throughput	600Mbps	600Mbps	600Mbps
Remote Monitoring	Viper Central viewing software or device web page	Viper Central viewing software or device web page	Viper Central viewing software or device web page
USB	USB 3.0 x 1 / USB 2.0 x 1	USB 3.0 x 1 / USB 2.0 x 1	USB 3.0 x 1 / USB 2.0 x 1
SD CARD	Micro SD for Media file up load	Micro SD for Media file up load	Micro SD for Media file up load
Operating Humidity	0 ~ 90% RH (Non-condensing)	0 ~ 90% RH (Non-condensing)	0 ~ 90% RH (Non-condensing)
Operating Temperature	0°C ~ +40°C	0°C ~ +40°C	0°C ~ +40°C
Power Supply	PoE+ (IEEE 802.3AT) 12VDC, 2A	PoE+ (IEEE 802.3AT) 24VDC, 2A	PoE+ (IEEE 802.3AT) 24VDC, 2A
Power Consumption	Max. 25W	Max. 25W	Max. 25W
Casing material	Plastic	Metal	Metal
VESA mount	100 x 100	100 x 100, 200 x 100	100 x 100, 200 x 100
Net Weight	5.33Kg	10.3Kg	15.3Kg

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How the PVM Decoder Options Work

The decoder options can display images from up to 16 cameras or video files. They are ideal for displaying advertising information or informative media content at the same time as offering CCTV security functionality. Video files can be displayed as a full screen or as a segment within a split screen view. Like the camera single screen models, the content can be shown permanently, activated by motion detection or by using video analytic triggers.

Watch Vista's VK2 PVM Overview VIDEOS
hubs.ly/H0jKTJ10

Decoder screen layout variations:

16 channel split screen display

Quad display: 3 live cameras and 1 advertising video segment

Picture in Picture (PiP): full screen advertising video with 1 small live camera segment

Full screen Advertising video

Don't forget...

If you need help identifying the right solution for you, our Business Development team is here to help.

SEE PAGE 13

vista

Video Surveillance Accessories

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Overview

The innovative VK2-4KXDECODER has been designed to fulfil requests made by multiple large retail organisations who want to be able to use their CCTV systems for product advertisement.

The decoder allows any camera (or multiple cameras) on a network to be displayed via an HDMI output, onto a monitor. These cameras can be up to 4K resolution.

The decoder also has the additional benefit of being able to display video files (such as advertising media) on the monitor or a segment of the screen when in split screen display.

KEY RANGE FEATURES

- UHD 4K RESOLUTION
- 16 CHANNEL DISPLAY OF 1080P CAMERAS
- MEDIA FILE DISPLAY
- ALARM SWITCHING BETWEEN VIDEO AND MEDIA FILES
- SIMPLE CONTROL AND SET UP

Highlights of Range

- 4K resolution - Up to 4 UHD resolution cameras can be displayed in quad format
- 16 channel - Up to 16 x 1080p cameras can be simultaneously displayed in a 4 x 4 split
- Alarm or motion switching from split screen to full screen or PiP
- Display of advertising or information media, with alarm switching options
- Multiple control options - Set up from local mouse, Web page Viper Central or 64 channel Viper NVR

A

PRODUCT NAME	A VK2-4KXDECODER
PRODUCT CODE	0499770
Display Output	HDMI, CVBS
Compression	H.264, H.265
Display Resolution	HDMI: 3840x2160, 1920x1080 CVBS: NTSC, PAL
Display Speed	125/150ips (PAL/NTSC)
Display Mode	HDMI: 1/4/14 (4K res max 4 chn) CVBS: 1
Media file display	AVI format (converted using supplied software)
Ethernet	1 RJ45 10/100/1000 Base-T
Max. Network Throughput	600Mbps
Remote Monitoring	CMS, VM
Audio Out	1 RCA, 1 HDMI
Alarm Out	1 Output (Terminal block)
USB	USB 3.0 x 1 / USB 2.0 x 1
SD CARD	Micro SD
Operating Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	0°C ~ +45°C
Power Supply	12VDC, 2A
Power Consumption	Max. 10W
Dimension(WxHxD)	155 x 100 x 40mm
Net Weight	0.45Kg

3 YEAR ADVANCE REPLACEMENT for Vista* products

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You can save time and money with our 3 Year Advance Replacement on Vista products.

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Overview

The innovative VIPER-HDAENC16 encoder takes the concept of a multi-channel Analogue to IP encoder a step further.

The encoder is based on the design of the very popular VIPERHDA Analogue recording range. This allows the encoder to be used to view all cameras on the network and control them separately, while converting Analogue CCTV images to IP streams.

Unlike other multi-channel encoders the VIPERHDAENC16 does not require a PC or laptop for configuration. It can be set up locally via its local mouse and monitor output, using a menu structure identical to the rest of the VIPER family of products. This greatly simplifies the need for engineer training and reduces installation time and complexity.

KEY RANGE FEATURES

- 16 CHANNEL ANALOGUE TO IP ENCODING
- TVI/AHD AND CVBS FORMATS
- SIMPLE LOCAL SET UP
- LOCAL MONITOR OUTPUT
- PTZ CONTROL
- ONVIF OUTPUT

Highlights of Range

- 16 channel Analogue to IP encoder - can convert 16 Analogue camera signals to 16 individual video streams
- TVI/AHD and CVBS formats - The encoder can convert standard CVBS resolution cameras or full HD TVI and AHD Analogue cameras
- Simple set up - Unlike other multi channel encoders the VIPER-HDAENC16 can be fully configured using its local monitor output and mouse, as well as via its web page

A

PRODUCT NAME		A VIPER-HDAENC16
PRODUCT CODE		0495260
Video Input Channel		Up to16ch (16 BNC, 4 IP configurable)
Video Input Type		AHD, TVI, CVBS, IP
Video Input Resolution		1080p, 720p, 960H, D1(CVBS)
Local Display Output		1 VGA, 1 HDMI, 1 BNC (Spot, CVBS)
Local Display Resolution	VGA, HDMI	1920x1080, 1280x720, 1024x768
	Spot	1.0 Vp-p (75Ohm, Composite)
Local Display Speed		Up to 400/480ips
Display Mode	VGA, HDMI	1920x1080, 1280x720, 1024x768
	Spot	1.0 Vp-p (75 ohm, Composite)
Compression		H.264
Encoding Frame Rate		Main stream: 200/240ips@1080p (PAL/NTSC) Sub stream: 200/240ips@VGA (PAL/NTSC)
Protocols		TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf
Ethernet		1 RJ45 10/100/1000 Base-T
Max. Network Throughput		288Mbps, Support Bandwidth Control
API Support		API, ONVIF Profile S Compliance
Audio		4 RCA Input / 1 RCA Output, 1 HDMI Output
Alarm		4 Input / 1 Output (Terminal block)
Serial Port		2 USB, 1 RS485 (Terminal block)
PTZ & OSD Control		RS485, UTC (Coaxial Control for TVI and AHD)
Operating Humidity		0 ~ 90% RH (Non-condensing)
Operating Temperature		0°C ~ +45°C
Power Supply		12VDC, 2A
Power Consumption		Max. 14.4W
Dimension(WxHxD)		375 x 44.9 x 318.2mm
Net Weight		Approx. 1.8 Kg

Don't forget...

Our flexible pre-configuration service reduces the amount of time engineers have to spend on site.

SEE PAGE 12

Range Overview

Our VFS monitor range produces high resolution, high contrast images via the exceptionally efficient backlit LED panel. This produces a cost saving of approximately 40%, at 240VAC, over current fluorescent backlit LCD monitors. Input types include HDMI, looping BNC connectors, S-Video and PC and audio connections, with the WHDA models accepting TVI, AHD and CVBS technology.

The hard glass front gives the screen extra protection when used in industrial environments. An intuitive multilingual menu system makes the monitors very simple to set-up. Front panel key locks stop unwanted adjustment of monitor settings, while the combination of a VESA mount and desk stand allows the monitors to be mounted anywhere.

KEY RANGE FEATURES

- 4:3 OR 16:9 MODELS
- 1080P ON WHDA MODELS
- TVI, AHD AND CVBS SUPPORTED ON WHDA MODELS
- DESK STAND INCLUDED
- VESA100 MOUNT

DID YOU KNOW

We introduced the VFS118WHDA in line with customer suggestions to help users save valuable desk space.

VOC

[A]

MONITOR TYPE	[A] VFS118WHDA	[A] VFS121WHDA	[A] VFS124WHDA	[A] VFS132WHDA
PRODUCT CODE	0338110	0773530	0773540	0675910
Screen Format	16:9	16:9	16:9	16:9
Screen Size (diagonal)	18.5" (LED backlight)	21.5" (LED backlight)	24" (LED backlight)	32" (LED backlight)
Viewing Angle (L/R/T/B)	85/85/80/80	85/85/80/80	85/85/80/80	85/85/80/80
Contrast Ratio	1000:1	1000:1	1000:1	1000:1
Brightness	250 cd/m2 (Typical)	250 cd/m2 (Typical)	250 cd/m2 (Typical)	250 cd/m2 (Typical)
Resolution	FHD 1920 x 1080	FHD 1920 x 1080	FHD 1920 x 1080	FHD 1920 x 1080
Display Colour	16.7M	16.7M	16.7M	16.7M
Response Time	<5ms	<5ms	<5ms	<5ms
Multimedia Input	HDMI	HDMI	HDMI	HDMI
PC Input	VGA	VGA	VGA	VGA
Video Inputs	1 x Looping BNC (TVI/AHD/CVBS) 1 x S-Video (CVBS)	1 x Looping BNC (TVI/AHD/CVBS) 1 x S-Video (CVBS)	1 x Looping BNC (TVI/AHD/CVBS) 1 x S-Video (CVBS)	1 x Looping BNC (TVI/AHD/CVBS) 1 x S-Video (CVBS)
Audio Input	1 x 3.5mm stereo jack	1 x 3.5mm stereo jack	1 x 3.5mm stereo jack	1 x 3.5mm stereo jack
Audio Output	2 x 1W speakers	2 x 1W speakers	2 x 1W speakers	2 x 1W speakers
	100-240VAC (17W)	100-240VAC (24W)	100-240VAC (28W)	100-240VAC (28W)
Operating Temp	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C
Case	Slim Plastic Bezel	Slim Plastic Bezel	Slim Plastic Bezel	Slim Plastic Bezel
Panel Dims (WxHxD)	452x280x51mm	517x317x51mm	575x345x51mm	575x345x51mm
Weight (net/gross)	2.8/3.8kg	3.43/4.48kg	3.9/5.6kg	3.9/5.6kg
VESA Mount	VESA100	VESA100	VESA100	VESA100
Panel	Matt plastic	Gloss glass	Gloss glass	Gloss glass

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Diamonde Overview

DIAMONDe is the CCTV engineer's ultimate test tool. Packed with functions developed to make the job of installing, commissioning and fault finding of CCTV systems easier, this ergonomically designed touch screen monitor is a must have for any installation engineer.

As a basic test monitor, DIAMONDe will accept virtually any CCTV camera format including IP, CVBS, TVI, AHD and CVI video. Both RS485 and UTC protocols for TVI, AHD & CVI PTZ cameras can be tested directly from the unit.

A

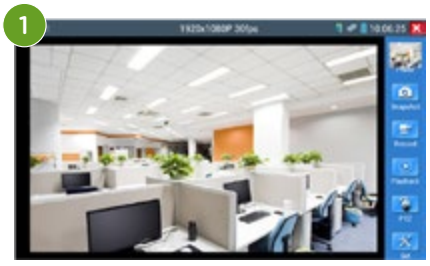
PRODUCT NAME	A DIAMONDe	HUMV
PRODUCT CODE	0317240	0472580
Description	Multi-function IP/CVBS/TVI/AHD/CVI test monitor	Ground loop isolation transformer (analogue)

KEY RANGE FEATURES

- IN-BUILT VK2-REMOTE IP CAMERA APP
- ONVIF CAMERA TESTER
- IP ADDRESS DISCOVERY TOOL
- MANUFACTURER-SPECIFIC CAMERA VIEWERS
- RTSP VIEWER
- SCREEN SNAPSHOT
- VIDEO RECORDER
- WI-FI CONNECTION
- COLOUR BAR GENERATOR
- DIGITAL MULTIMETER
- CAT5E CABLE TESTER
- CABLE TRACER
- IP SWITCH PORT FLASHER
- PING TESTER
- RS45 DATA MONITOR
- VIDEO & AUDIO PLAYERS
- LED FLASH LIGHT
- 12VDC OUTPUT
- POE OUTPUT
- 5VDC USB OUTPUT
- HDMI OUTPUT/INPUT

Diamonde functions:

1



2

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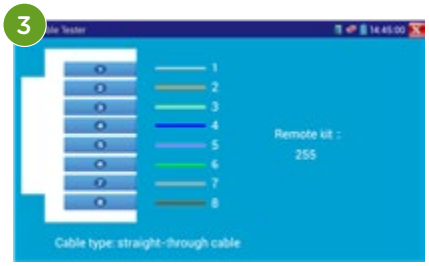

4

1) ONVIF Device Manager live viewing of camera image
2) ONVIF Device Manager showing camera parameter settings
3) Cable tester pages showing RJ45 connections
4) Digital Multimeter – function selection screen

Overview

Our 12VDC and 24VAC PSUs are available as 1, 4 and 8 output units. All plastic cased PSUs include individually fused outputs, with LED indicators for quick fault finding.

Suitable for integration into any CCTV system, externally rated plastic casing options are lightweight and easy to handle. They come with 22mm cable gland entry points and, for convenience, are supplied with spare fuses.

They are all tested to EN50130-4 (Alarm systems, Electromagnetic compatibility, Product family standard: Immunity requirements for components of fire, intruder and social alarm systems).

12VDC Power Supplies - Encapsulated

A

B

C

D

PRODUCT NAME	A VPSU12-500e	B VPSU12-1000e	C VPSU12-2000e	D VPSU12UNIVe
PRODUCT CODE	0785190	0785200	0785210	0785260
Description	12VDC 500mA (6W) encapsulated PSU 2.1mm jack plug, mains flying lead	12VDC 1000mA (12W) encapsulated PSU 2.1mm jack plug, mains flying lead	12VDC 2000mA (24W) encapsulated PSU 2.1mm jack plug, mains flying lead	12VDC 5000mA (60W) encapsulated PSU 2.1mm jack plug, mains flying lead

12VDC Power Supplies - Cased

E

F

G

H

PRODUCT NAME	E VPSU1221EXTe	F VPSU1241EXTe	G VPSU1244EXTe	H VPSU1248EXTe
PRODUCT CODE	0785220	0785230	0785240	0785250
Description	12VDC IP66 plastic cased PSU, 1 x 2000mA (24W) output	12VDC IP66 plastic cased PSU, 1 x 4000mA (48W) output	12VDC IP66 plastic cased PSU, 4 x 1000mA (12W) outputs	12VDC IP66 plastic cased PSU, 8 x 500mA (6W) outputs

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24VAC Power Supplies - Encapsulated

A

PRODUCT NAME	A VPSU24VAC-750e	A VPSU24VAC-1500e	A VPSU24VAC-2000e	A VPSU24VAC-3000e
PRODUCT CODE	0785150	0785160	0785170	0785180
Description	24VAC 750mA (18W) encapsulated PSU 2.1mm, mains and low voltage flying leads	24VAC 1500mA (36W) encapsulated PSU 2.1mm, mains and low voltage flying leads	24VAC 2000mA (48W) encapsulated PSU 2.1mm, mains and low voltage flying leads	24VAC 3000mA (72W) encapsulated PSU 2.1mm, mains and low voltage flying leads

24VAC Power Supplies - Cased

B

C

D

E

F

PRODUCT NAME	B VPSU2444EXTe	C VPSU2488INTe	D VPSU2431EXTe	E VPSU2441EXTe	F VPSU2461EXTe	F VPSM2481EXTe
PRODUCT CODE	0785110	0785140	0785090	0785100	0785120	0785130
Description	24VAC IP66 plastic cased PSU, 4 x 1000mA (24W) outputs	24VAC internal metal cased PSU, 8 x 1000mA (24W) outputs	24VAC IP66 plastic cased PSU, 1 x 3000mA (72W) output	24VAC IP66 plastic cased PSU, 1 x 4000mA (96W) output	24VAC IP66 plastic cased PSU, 1 x 6000mA (144W) output	24VAC IP66 plastic cased PSU, 1 x 8000mA (192W) output

RG59 Overview

Coax cables developed specifically for the CCTV market ensure that the correct quality of copper cabling is being used in installations. All Vista RG59 cables are graded in accordance with the European CPR Directive. We offer three variants in different lengths:

CCS: Copper Coated Steel

SCC: Solid Copper Core

SG: Shotgun (A CCS RG59 and pair of copper cores for power)

KEY RANGE FEATURES

RG59-CCS

- COPPER COATED STEEL CORE FOR 150M IMAGES AND TELEMETRY ON CVBS SIGNALS
- ≥83% SCREEN COVERAGE
- LOW SMOKE FUME SHEATH
- UV RESISTANT
- CONSISTENCY OF SPECIFICATION

RG59-SCC

- SOLID COPPER CORE FOR 250M IMAGES AND TELEMETRY ON CVBS SIGNALS
- ≥83% SCREEN COVERAGE
- LOW SMOKE FUME SHEATH
- UV RESISTANT
- CONSISTENCY OF SPECIFICATION

RG59-SG

- SHOTGUN: DUAL CCS AND POWER PAIR
- COPPER COATED STEEL CORE FOR 150M IMAGES AND TELEMETRY ON CVBS SIGNALS
- 0.5MM² OR 0.75MM² POWER CORES
- ≥83% SCREEN COVERAGE
- LOW SMOKE FUME SHEATH
- UV RESISTANT
- CONSISTENCY OF SPECIFICATION

RG59-CCS

PRODUCT NAME	RG59/CCS/100	RG59/CCS/100M	RG59/CCS/200	RG59/CCS/500
PRODUCT CODE	0480010	0480130	0480020	0480030
Conductor	Copper coated steel	Copper coated steel	Copper coated steel	Copper coated steel
Braiding	Copper coated aluminium	Copper coated aluminium	Copper coated aluminium	Copper coated aluminium
Sheath	LSF	PVC	LSF	LSF
Colour	Black	White	Black	Black
Length	100m	100m	200m	500m
CPR	ECA	ECA	ECA	ECA

RG59-SCC

PRODUCT NAME	RG59/SCC/100M	RG59/SCC/200	RG59/SCC/500
PRODUCT CODE	0480060	0480070	0480080
Conductor	Solid copper core	Solid copper core	Solid copper core
Braiding	Copper coated aluminium	Copper coated aluminium	Copper coated aluminium
Sheath	LSF	LSF	LSF
Colour	Black	Black	Black
Length	100m	200m	500m
CPR	ECA	ECA	ECA

RG59-SG

A

PRODUCT NAME	A RG59/SG5/100	A RG59/SG5/200	A RG59/SG75/100	A RG59/SG75/200
PRODUCT CODE	0480090	0480100	0480110	0480120
Coax Conductor	Copper coated steel	Copper coated steel	Copper coated steel	Copper coated steel
Coax Braiding	Copper coated aluminium	Copper coated aluminium	Copper coated aluminium	Copper coated aluminium
Power Conductor	2 x 0.5mm² stranded copper core	2 x 0.5mm² stranded copper core	2 x 0.75mm² stranded copper core	2 x 0.75mm² stranded copper core
Sheath	LSF	LSF	LSF	LSF
Colour	Black	Black	Black	Black
Length	100m	200m	100m	200m
CPR	ECA	ECA	ECA	ECA

BNC Connectors

B

PRODUCT NAME	B VBNC	B VBNC100
PRODUCT CODE	0442930	0442940
Description	Single BNC connector	Pack of 100 BNC connectors

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CAT5e & CAT6 Overview

Essential to any IP networking infrastructure, our CAT5e and CAT6, 4 pair UTP cable comprises high quality, solid copper cores to ensure that industry standard network cable lengths can be achieved before additional repeaters or switches are required. Available in lengths of 305m and 500m, the cable is constructed with either a PVC or LSZH (Low Smoke, Zero Halogen) for internal use or Duct grade (PE) sheath for external applications. All Vista CAT5e and CAT6 cables are graded in accordance with the European CPR Directive.

KEY FEATURES

- CAT5E & CAT6 OPTIONS
- REDUCED CROSS TALK
- UV RESISTANT
- LOW SMOKE, ZERO HALOGEN
- CONSISTENCY OF SPECIFICATION

A

B

CAT5e

PRODUCT NAME	A CAT5e/UTP/305/ PVC/GREY	A CAT5e/UTP/305/ LSZH/VIOLET	A CAT5e/UTP/305/ LSZH/WHITE	A CAT5e/UTP/305/ DUCT/BLACK	CAT5e/UTP/500/ DUCT/BLACK
PRODUCT CODE	0480540	0480560	0480570	0480580	0480590
Category	CAT5e	CAT5e	CAT5e	CAT5e	CAT5e
Type	UTP	UTP	UTP	UTP	UTP
Length	305m	305m	305m	305m	500m
Sheath	PVC	LSZH	LSZH	DUCT (PE)	DUCT (PE)
Colour	Grey	Violet	White	Black	Black
Packaging	Box	Box	Box	Box	Drum
CPR	ECA	ECA	ECA	FCA	FCA

CAT6

PRODUCT NAME	B CAT6/UTP/305/PVC/GREY	B CAT6/UTP/305/LSZH/VIOLET	B CAT6/UTP/305/DUCT/BLACK
PRODUCT CODE	0480610	0480620	0480630
Category	CAT6	CAT6	CAT6
Type	UTP	UTP	UTP
Length	305m	305m	305m
Sheath	PVC	LSZH	DUCT
Colour	Grey	Violet	Black
Packaging	Box	Box	Box
CPR	ECA	ECA	ECA

Camera Housings Overview

Our housings have been designed to ensure easy installation. Each housing has a fully cable-managed bracket to eliminate any loose and unsightly cabling. The housings are an ideal size to fit the majority of CCTV cameras with either a fixed or varifocal lens. The IP66 rated weatherproof housing not only looks smart, but also reduces any vandal-related threats.

KEY RANGE FEATURES

- SIDE OPENING
- IP66 RATED
- FULLY CABLE-MANAGED BRACKET
- MAINS OR LOW VOLTAGE

PRODUCT NAME	A VHE-23LV	A VHE-23HV
PRODUCT CODE	0356970	0356960
Construction	Aluminium	Aluminium
Opening Mechanism	Side opening	Side opening
Cable Entry	3	3
Max Camera/Lens (MCL)	90mm (W) 85mm (H) 260mm (L)	90mm (W) 85mm (H) 260mm (L)
Heater Operation	On: 15°C Off: 25°C	On: 15°C Off: 25°C
Finish	Powder coated	Powder coated
Colour	RAL7035	RAL7035
Environmental	IP66	IP66
Operating Temp	-10 to +50°C	-10 to +50°C
Power	24VAC (14W)	90-240VAC (22W)

Camera Housing Bracketry

PRODUCT NAME	VHE-23-EPMA
PRODUCT CODE	0442920
Description	External pole mount adaptor for 1 or 2 VHE-23 housings, 50-130mm diameter

Camera Lenses

PRODUCT NAME	PRODUCT CODE	PRODUCT DESCRIPTION
STANDARD		
VDD28V114IRP	0095160	1/3", CS, 2.8-11mm, F1.4-360, IR corrected, 10cm plugged lead
VDD5V5014PU	0315830	1/3", CS, 5-50mm, F1.4-360, 10cm plugged lead
MEGAPIXEL		
VDD5V5016IRP-2MP	0631670	1/3" ,CS, 5-50mm F1.6 10cm Plugged lead
VDD27V1314IRP-3MP	0631660	1/2.7" ,CS, 2.7-13mm F1.6 10cm Plugged lead

Don't forget...

You can save time and money with our 3 Year Advance Replacement on Vista products.

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Not sure what to do?

THERE'S NEVER BEEN A BETTER TIME TO TALK TO VISTA

With so many products and choices available, navigating the security market can be a real challenge. Vista has years of experience developing solutions to match the needs of installers and end-users alike.

If you want to find a cost-effective and scalable solution to address your security needs, why not talk to us now?

vista

LET'S TALK:

tel: **+44 (0) 118 912 5000**

email: **info@vista-cctv.com**

web: **vista-cctv.com**

Static Cameras

INTERNAL CAMERAS

VFDA28V12HDA-XXX
VK2-2MPXVFDIR28V12M
VK2-3MPMD26e
VK2-5MP360INT

Solid Ceiling Mount

DJBW (0811180)

Wall Mount

VFDA-IWMB/W
(0656110)

OR

VCW-IWMB
(0825400)

Pendant (Adj. Length)

VDM-IPMCA(VW)
(0476070)
Ceiling adaptor

OR

VDM-IPMGA(VW)
(0476080)
Girder adaptor

VDM-2MP(VW) (0476060)
2m pole

If longer than 2m is required then 2nd VDM-2MP & VDM-C (0276250) coupler is required

VXID-IPMAW
(0718890)

REMOTE POSITIONING EYEBALL CAMERAS

VEFED28V12MHDAW
VK2-3MPEFEDRe

Solid Ceiling Mount

DJBW
(0811180)

Wall Mount

VCW-EWMB
(0815480)

VK2L CAMERAS

VK2L-2MPTIR36
VK2L-2MPBIR36

Junction Box

VK2L-BB
(0481690)

Side Pole Mount

VBC-EPMAW
(0718910)

BULLET CAMERAS

VBC28V12MHDAW
VK2-2MPXBIR28V12M
VK2-4MPXBIR28V12M
VK2-1080XNPR10Z

Junction Box

VK2L-BB
(0481690)

EXTERNAL DOMES

VVRD28V12MHDAW
VVRD28V12MHDAIRW
VVRD28V12MHDAIRSW
VK2-2MPXVRDIR37
VK2-2MPXVRDIR28V12M
VK2-4MPXVRDIR28V12M
VK2-4KXVRDIR36V11M

Solid Ceiling Mount

DJBW
(0811180)

Wall Mount

VCW-EWMB
(0815480)

Wall Mount With Junction Box

VDM-WMVRD
(0366950)

VDM-WMJB
(0366930)

Corner Mount

See **Wall Mount with Junction Box**

VDM-ECMAW
(0718920)

Side Pole Mount

See **Wall Mount with Junction Box**

VDM-EPMAW
(0718930)

Pendant (Fixed Length)

VRD-EPMB(W)
(0811200)
length 300mm

Swan Neck

VRD-TM(W)
(0811210)

OR

VRD-TMJB(W)
(0811220)
with integral junction box

Pendant (Adj. Length)

VDM-IPMCA(VW)
(0476070)
Ceiling adaptor

OR

VDM-IPMGA(VW)
(0476080)
Girder adaptor

VDM-2MP(VW) (0476060)
2m pole

If longer than 2m is required then 2nd VDM-2MP & VDM-C (0276250) coupler is required

VPL-IPMAW
(0718900)

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PTZ Cameras

<table>
<tr><th>PTZ DOMES</th><th>Solid Ceiling Mount</th><th>Wall Mount</th><th>False Ceiling Mount</th><th>Wall Mount with Junction Box</th><th>Corner Mount</th><th>Side Pole Mount</th></tr>
<tr><td rowspan="2">VP-HDA20-SMW
VP-HDA20IR-SMW
VK2-HD20-SMW
VK2-HDX23IR-SMW</td><td>DJBW
(0811180)
 </td><td>VCW-EWMB
(0815480)
 </td><td>VPL-SM-FMW
(0508680)

PLEASE NOTE:
Not for use with the VK2-HDX23IR-SMW</td><td>
VDM-WMVRD
(0366950)
+
VDM-WMJB
(0366930)
 </td><td>See Wall Mount with J. Box
+
VDM-ECMAW
(0718920)
 </td><td>See Wall Mount with J. Box
+
VDM-EPMAW
(0718930)
 </td></tr>
<tr><td colspan="6"><table>
<tr><th>Pendant (Fixed Length)</th><th>Swan Neck</th><th>Pendant (Adj. Length)</th></tr>
<tr><td>VRD-EPMBW
(0811200)
length 300mm
 </td><td>
VRD-TMW
(0811210)
OR
VRD-TMJBW
(0811220)
with integral junction box
 </td><td>
VDM-IPMCA(VW)
(0476070)
Ceiling adaptor
OR
VDM-IPMGA(VW)
(0476080)
Girder adaptor

+
VDM-2MP(VW)
(0476060) 2m pole

+
If longer than 2m is required then 2nd VDM-2MP & VDM-C (0276250) coupler is required
VPL-IPMAW
(0718900)
 </td></tr>
</table></td></tr>
<tr><td rowspan="2">VP-HDA30IR-PMW
VK2-4KX30IR-PM</td><td>Wall Mount
VDM-WMVP
(0366940)
 </td><td>Wall Mount with Junction Box

VDM-WMVP
(0366940)
+
VDM-WMJB
(0366930)
 </td><td>Corner Mount
See Wall Mount with J. Box
+
VDM-ECMAW
(0718920)
 </td><td>Side Pole Mount
See Wall Mount with J. Box
+
VDM-EPMAW
(0718930)
 </td><td>Swan Neck

VDM-TM(VW)
(0476340)
OR
VDM-TMJB(VW)
(0476350)
with integral junction box
 </td><td>Pendant (Fixed Length)
VPP-IPMB250
(0472170)
length 250mm
OR
VPP-IPMB500
(0472180)
length 500mm
OR
VPP-IPMB1000
(0472190)
length 1000mm
OR
VPP-IPMB2000
(0472200)
length 2000mm
 </td></tr>
<tr><td colspan="5"><table>
<tr><th>Pendant (Adj. Length)</th></tr>
<tr><td>
VDM-IPMCA(VW)
(0476070)
Ceiling adaptor
OR
VDM-IPMGA(VW)
(0476080)
Girder adaptor

+
VDM-2MP(VW) (0476060)
2m pole

+
If longer than 2m is required then 2nd VDM-2MP & VDM-C (0276250) coupler is required
VPP-IPMAW
(0663570)
 </td></tr>
</table></td></tr>
</table>

VOLO Access Control

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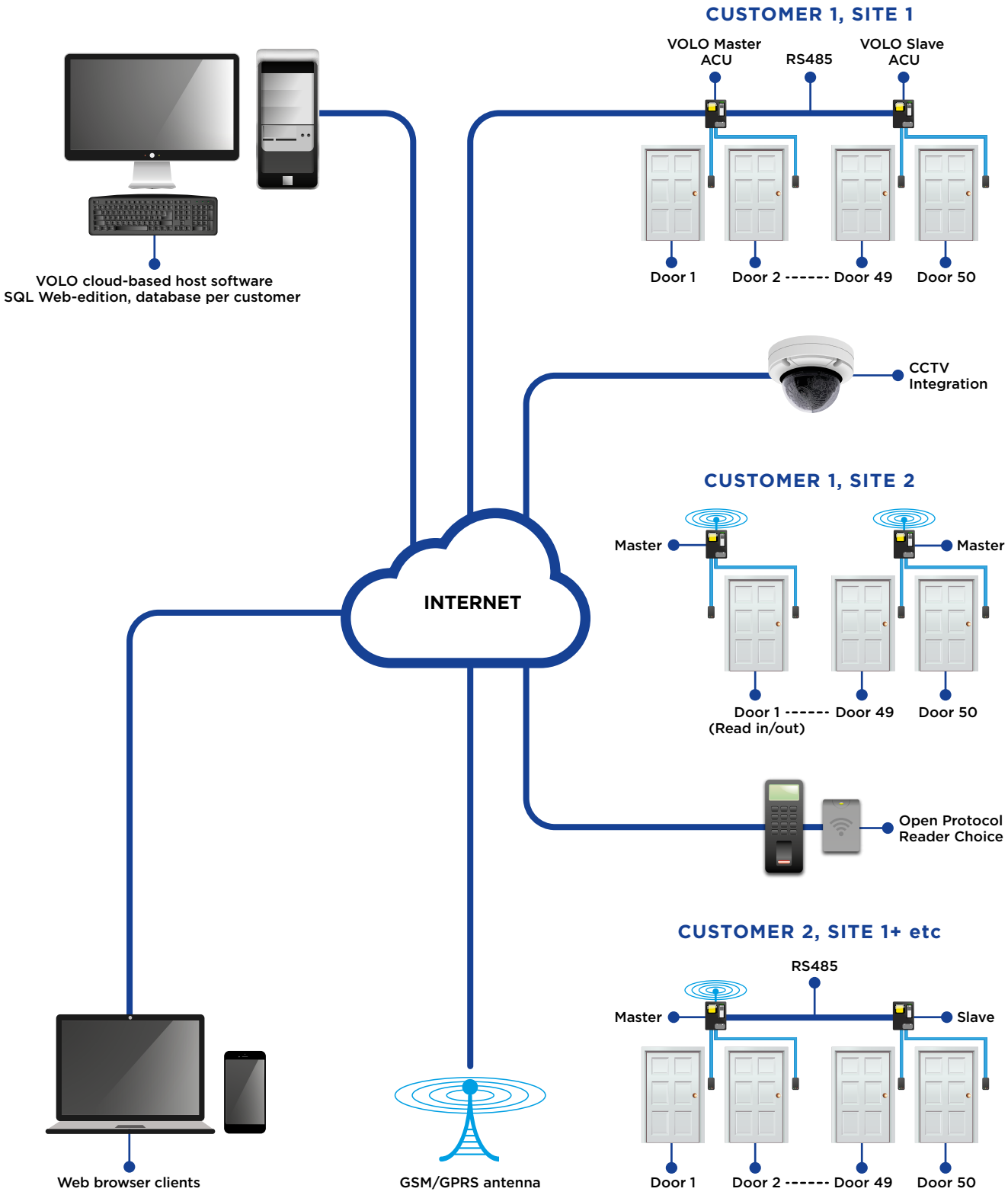
VOLO by vista

Schematic

VOLO Master Access Control Units (ACUs) can each control up to two doors and have integrated GSM/GPRS capability. Sites can be expanded with additional VOLO slave units to control up to 50 doors per site and up to 10,000 sites combined.



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Overview

VOLO is an innovative way of delivering Access Control solutions. By combining Cloud Hosting and GSM/GPRS connectivity you benefit from a powerful and flexible system that allows you to deliver a truly proactive solution.

As well as reducing installation times and hardware costs, you'll benefit from greater flexibility, more scalability and better service delivery for your customers.

Hosted software is ideal for those projects that require central configuration and management of multiple customers, sites, doors and users. Sites can be managed and administered from any smart device or PC from anywhere in the world.

LESS IS MORE

LESS
- Equipment
- Upfront Investment
- Maintenance
- Wiring Infrastructure
- Site Visits
- Cost of Ownership

MORE
- Flexibility
- Scalability
- Return on Investment
- Integration
- Reporting
- Control
- Power

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Don't forget...

If you need help identifying the right solution for you, our Business Development team is here to help.

SEE PAGE 13

Benefits Of Cloud Hosted Solutions

Reduced Hardware Investment
No need for a dedicated PC station on site or dedicated network.

Scalability
Allows simple and virtually unlimited scalability to offer a solution from 1 door to 10,000 sites with up to 100,000 users.

Connectivity
VOLO can be configured on either a LAN or via GSM/GPRS to offer you the greatest flexibility.

All SIMs are roaming SIMs to ensure that you have the best available connection at all times.

System Maintenance
The hosting software is automatically updated to ensure the latest features and benefits are operational.

Thanks to system notification messaging you will always know the status of your systems. This means you can deliver a truly proactive service 24 hours a day, 365 days a year.

Applications

FACILITIES MANAGEMENT

VOLO supports multiple access rights for users and system administrators simultaneously from internet connected browser enabled and supported devices.

VOLO's multi-user interface allows remote, local, off-site, and third-party management of the access control rights.

With integrated reporting and audit trails of access and configuration changes, VOLO is ideal for FM companies and other value add service providers to include comprehensive outsourced management of clients' access control systems as part of the service provision.

- Small footprint of hardware minimises impact on retail space
- Protect cash/staff rooms as well ingress to facility
- Over 10,000 sites – ideal for multiple outlets
- Remote access from any internet browser allows permanent and temporary staff management
- No local PC installation or maintenance required

RETAIL

With sales space and management time premium for most retailers, VOLO's requirement for minimal local hardware makes it ideal for smaller premises requiring centrally managed staff access.

With no local PC server required, not only is there less clutter but removing direct, local access to the server negates a number of potential security concerns. The 2 reader controllers can secure up to 2 doors, perfect for cash offices and store rooms whilst the addition of slave units can expand the system as required for individual store requirements.

Hosted software allows convenient system maintenance from local, regional or central offices to update staff records, access rights, and manage card issuance for up to 100,000 users, therefore reducing administration and training.

- No IT LAN/WAN network required – VOLO uses GSM mobile network
- Resilient to power and communications disruption with battery backup facility
- Small footprint controller for minimum space impact
- No local PC installation or maintenance required

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System Management
System programming, adding and deleting users and changing access rights/times can all be done via the web browser from anywhere in the world.

System Reporting
VOLO has a powerful automated reporting tool for facilities such as time and attendance, system misuse and historical usage patterns etc.

Licence Based Hosting
Fixed, transparent licence fees allow you to plan a clear and effective cost plan with no hidden costs to the end users.

System Resilience
VOLO cloud hosting is provided by Amazon Web Services, which ensures that the system is fully backed up, offers full business continuity plans and guarantees that all data is secure.

Open Protocol Controllers
VOLO controllers are based on an open platform to allow integration with the majority of access control readers. This means that VOLO can also be applied to system upgrades as existing readers and existing credentials can be retained.

UTILITIES & REMOTE SITES

From water treatment to transmission towers and solar farms, not all facilities have the existing network infrastructure to accommodate a multi-site networked access control system.

VOLO's built-in GSM/GPRS modem eliminates the need for both a local PC server and a computer network, reducing hardware and infrastructure investment.

Site managers, engineers, contractors, and third-party access rights can be managed individually from any suitable location.

- No IT LAN/WAN network required – VOLO uses GSM mobile network
- Resilient to power and communications disruption with battery backup facility
- Small footprint controller for minimum space impact
- No local PC installation or maintenance required

CONSTRUCTION & TEMPORARY SITES

VOLO's GPRS connectivity makes it ideal for construction sites, festivals, void property, and other temporary sites where there is no reliable or existing network.

The VOLO ACU has provision for a battery within the housing, allowing operation with reduced or intermittent power supply. Sites can be managed and users and ACUs re-assigned for new project deployment.

- No communication infrastructure required
- Quick and easy to deploy
- Re-deployable
- Resilient to power and communications disruption
- Multiple user group access for different contractors
- No local PC installation or maintenance required

POWERFUL SCALABILITY
From 1 door to over 10,000 sites and 100,000 users.

NO LOCAL PC REQUIRED
Save space and reduce maintenance risk & hardware investment.

MOBILE GPRS CONNECTIVITY
For those sites where no convenient LAN or internet connection are available.*

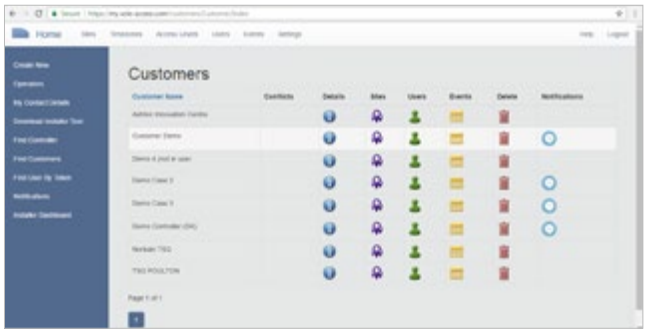
MULTI-ACCESS LEVELS
256 access levels allow integrator and end-user multi-user access rights for site and system programming privileges.

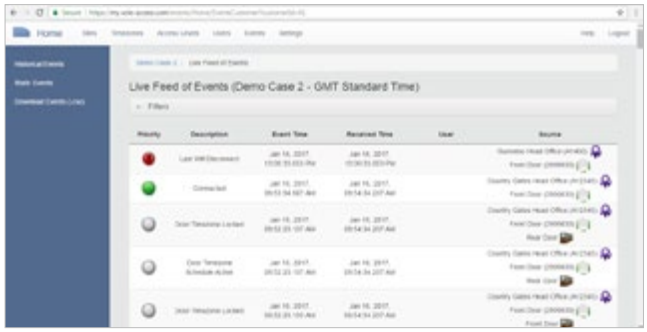
ACCESS FROM ANYWHERE
Via supported browser devices, including smart phones and netbooks.

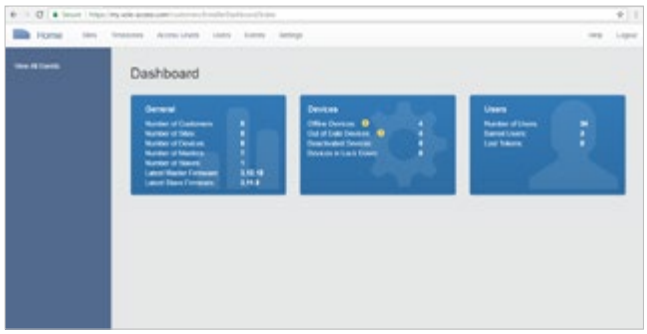
LICENCE BASED HOSTING
Scales with the number of sites, increasing only as the system requirement grows.**

POWERFUL REPORTING
Including options to export to Excel & scheduled timed reports.

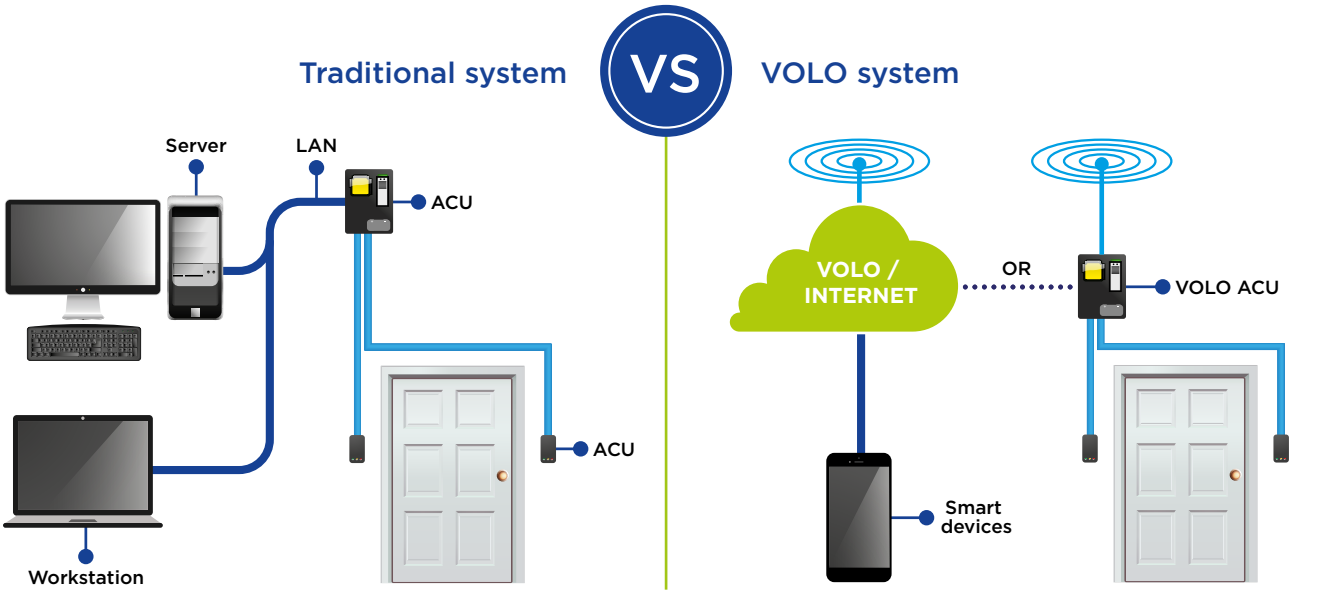
INTEGRATION
Via our open API VOLO can be fully integrated into other operating platforms and solutions such as CCTV, payroll, CRM, Visitor management and much more.







Compatible Browsers



*GSM/GPRS network availability and VOLO airtime agreement required.

**Annual licence per Master ACU required, each able to control up to 24 slave units with up to 50 readers.

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POWER AND FLEXIBILITY
THE ULTIMATE COMBINATION

VOLO GSM/GPRS & IP ENABLED HOSTED ACCESS CONTROL

- ☑ **POWERFUL SCALABILITY** | From 1 door to over 10,000 sites and 100,000 users.
- ☑ **ACCESS FROM ANYWHERE** | Via supported browser devices, including smart phones and tablets.
- ☑ **OPEN PROTOCOL FOR READERS & CREDENTIALS** | Readers can be either Weigand or Clock and Data.
- ☑ **POWERFUL REPORTING** | Including scheduled timed reports, easily exportable to Excel.

VOLO by vista

» Tel: 0118 912 5000
» Email: info@vista-cctv.com
» Web: vista-cctv.com
» Twitter: @vistaCCTV

vista

Crib sheets

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Static Cameras

VFDA28V12HDA-WCB | 0338700	**VFDA28V12HDA-WCW** | 0815550	**VFDA28V12HDA-BCB** | 0815560
1080p/1000TVL Internal Dome - 2.8-12mm, DWDR, TVI/AHD/CVBS, 12VDC/24VAC	1080p/1000TVL Internal Dome - 2.8-12mm, DWDR, TVI/AHD/CVBS, 12VDC/24VAC	1080p/1000TVL Internal Dome - 2.8-12mm, DWDR, TVI/AHD/CVBS, 12VDC/24VAC
White case, Clear bubble, White liner	White case, Clear bubble, Black liner	Black case, Clear bubble, Black liner
VVRD28V12MHDAW | 0815570	**VVRD28V12MHDAIRW** | 0815580	**VVRD28V12MHDAIRSW** | 0815590
1080p/1000TVL VR Dome	1080p/1000TVL VR IR Dome	1080p/700TVL VR IR Dome
2.8-12mm, Motorised Lens Setup, DWDR, TVI/AHD/CVBS, IK10/IP66, 12VDC/24VAC	2.8-12mm, Motorised Lens Setup, DWDR, TVI/AHD/CVBS, 25m IR, IK10/IP66, 12VDC/24VAC	2.8-12mm, Motorised Lens Setup, TWDR, Low Light, TVI/AHD/CVBS, 30m IR, IK10/IP66, 12VDC/24VAC
VEFED28V12MHDAW | 0146400	**VBC28V12MHDAW** | 0811170	**VPC-DNHDA** | 0146410
1080p/1000TVL Eyeball	1080p/1000TVL VR IR Bullet Camera	1080p/1000TVL Box Camera
2.8-12mm, Motorised Lens Setup, DWDR, TVI/AHD/CVBS, 25m IR, IK10/IP66 12VDC	2.8-12mm, Motorised Lens Setup, DWDR, TVI/AHD/CVBS, 40m IR, IK10/IP66, 12VDC/24VAC	DWDR, TVI/AHD/CVBS, 12VDC/24VAC (requires a lens)

PTZ Domes

VP-HDA20-SMW | 0718820	**VP-HDA20IR-SMW** | 0477230	**VP-HDA30IR-PMW** | 0718840
1080p/600TVL 20:1 PTZ VR Dome	1080p/600TVL 20:1 PTZ VR IR Dome	1080p/600TVL 30:1 PTZ VR IR Dome
TWDR, Alarm 4/2, TVI/AHD/CVBS, telemetry - coax (TVI/AHD), RS485 (Vista, Pelco P/D), IK10/IP66, 12VDC/24VAC	TWDR, Alarm 4/2, TVI/AHD/CVBS, 60m IR, telemetry - coax (TVI/AHD), RS485 (Vista, Pelco P/D), IK10/IP66, 12VDC	TWDR, Alarm 4/2, TVI/AHD/CVBS, 300m IR, telemetry - coax (TVI/AHD), RS485 (Vista, Pelco P/D), IK10/IP66, 24VAC

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HDA – 4, 8 and 16 channel DVRs

VIPER-HDA-04-000	0753860	0TB
VIPER-HDA-04-1TB	0753870	1TB
VIPER-HDA-04-2TB	0753880	2TB
VIPER-HDA-04-4TB	0753890	4TB
VIPER-HDA-08-000	0804160	0TB
VIPER-HDA-08-1TB	0804180	1TB
VIPER-HDA-08-2TB	0804190	2TB
VIPER-HDA-08-4TB	0804200	4TB
VIPER-HDA-08-6TB	0804210	6TB
VIPER-HDA-08-8TB	0804220	8TB
VIPER-HDA-16-000	0804170	0TB
VIPER-HDA-16-1TB	0804230	1TB
VIPER-HDA-16-2TB	0804240	2TB
VIPER-HDA-16-4TB	0804250	4TB
VIPER-HDA-16-6TB	0804260	6TB
VIPER-HDA-16-8TB	0804270	8TB
VIPER-HDA-16-12TB	0804280	12TB
VIPER-HDA-16-16TB	0804290	16TB

HDA SPECIFICATION
Hybrid - 8ch up to 2 x IP, 16ch - up to 4 x IP
TVI/AHD/CVBS/IP formats
5MP Half Real Time / Real Time recording
HDMI/VGA/CVBS/Ind. Spot
Telemetry - Coax (TVI/AHD), Vista (with optional adaptor)
Telemetry - RS485 (Vista,Pelco P/D)
VKBD4 keyboard control
Free Viper Central Client software
Free Mobile Apps
4 audio channel

Accessories

VIPER-1U-RM	0567480	Rackmount kit for Viper 1U
VIPER-RM	0813380	Rackmount kit for Viper 2U
VIPER-HDAL-FSK	0219780	FSK adaptor for Vista coax CVBS PTZ domes
VKBD4	0363570	Joystick KBD

HDAL – 8 and 16 channel DVRs

VIPER-HDAL-08-000	0196850	0TB
VIPER-HDAL-08-1TB	0198100	1TB
VIPER-HDAL-08-2TB	0199110	2TB
VIPER-HDAL-08-4TB	0199310	4TB
VIPER-HDAL-08-6TB	0199320	6TB
VIPER-HDAL-08-8TB	0199330	8TB
VIPER-HDAL-16-000	0196870	0TB
VIPER-HDAL-16-1TB	0199340	1TB
VIPER-HDAL-16-2TB	0199350	2TB
VIPER-HDAL-16-4TB	0199360	4TB
VIPER-HDAL-16-6TB	0199370	6TB
VIPER-HDAL-16-8TB	0199380	8TB
VIPER-HDAL-16-12TB	0199390	12TB
VIPER-HDAL-16-16TB	0199400	16TB
VIPER-HDAL-16-24TB	0199410	24TB
VIPER-HDAL-16-32TB	0199420	32TB

HDAL SPECIFICATION - AS HDA PLUS:-
5MP Real Time recording
Video looping
DVD writer
Audio per channel

Virtual Matrix Controller HDA

VIPER-VMC642-000	0199430	0TB
VIPER-VMC642-1TB	0229030	1TB
VIPER-VMC642-4TB	0229040	4TB
VIPER-VMC642-6TB	0229050	6TB
VIPER-VMC642-8TB	0229060	8TB
VIPER-VMC642-12TB	0229070	12TB
VIPER-VMC642-16TB	0229080	16TB
VIPER-VMC642-24TB	0229090	24TB
VIPER-VMC642-32TB	0229100	32TB

VMC SPECIFICATION
Virtual Matrix control of Viper DVRs and NVRs
64 way UHD 4K Monitor support - main monitor
Sub monitor control of PTZ on multiscreens - splits up to 32 cameras
WARP connection for direct control and set up of NVRs and DVRs
Mirror recording of up to 64 cameras, with .AVI and .H4V download

Static Cameras

HD 2MP	HD 2MP	HD 2MP
VK2L-2MPTIR36 | 0308070	**VK2L-2MPBIR36** | 0338490	**VK2-2MPXVFDIR28V12M** | 0308060
2MP Turret Camera	2MP IR Bullet Camera	2MP Internal Dome
H.264/H.265, 3.6mm, Hi-Stream (ROI), DWDR, 30m IR, IP66, PoE/12VDC	H.264/H.265, 3.6mm, Hi-Stream (ROI), DWDR, 30m IR, IP66, PoE/12VDC	H.264/H.265, 2.8-12mm, Motor-lens set up, P-Iris, Hi-Stream (ROI), TWDR, Audio 1/1, Alarm 1/1, SD card, 25m IR, PoE/12VDC
HD 2MP	HD 2MP	HD 2MP
VK2-2MPXVRDIR37 | 0338520	**VK2-2MPXVRDIR28V12M** | 0338500	**VK2-2MPXBIR28V12Ms** | 0476500
2MP VR IR Dome	2MP VR IR Dome	2MP VR IR Bullet Camera
H.264/H.265, 3.7mm, P-Iris, Quad streaming, Hi-Stream (ROI), TWDR, Audio 1/1, Alarm 1/1, SD card, 25m IR, IK10/IP66, PoE/12VDC	H.264/H.265, 2.8-12mm, Motor-lens set up, P-Iris, Hi-Stream (ROI), TWDR, Audio 1/1, Alarm 1/1, SD card, 25m IR, IK10/IP66, PoE/12VDC	H.264/H.265, 2.8-12mm, Motor-lens set up, P-Iris, Hi-Stream (ROI), TWDR, Audio 1/1, Alarm 1/1, SD card, 40m IR, IP66, PoE/12VDC
HD 4MP	HD 4MP	HD 3MP
VK2-4MPXVRDIR28V12M | 0308050	**VK2-4MPXBIR28V12Ms** | 0653300	**VK2-3MPMD26e** | 0207350
4MP VR IR Dome	4MP VR IR Bullet Camera	3MP Internal Dome
H.264/H.265, 2.8-12mm, Motor-lens set up, P-Iris, Hi-Stream (ROI), TWDR, Audio 1/1, Alarm 1/1, SD card, 25m IR, IK10/IP66, PoE/12VDC	H.264/H.265, 2.8-12mm, Motor-lens set up, P-Iris, Hi-Stream (ROI), TWDR, Audio 1/1, Alarm 1/1, SD card, 40m IR, IP66, PoE/12VDC	H.264, 2.6mm, DWDR, SD card, PoE/12VDC
HD 3MP	HD 5MP	HD 1080P
VK2-3MPEFEDrew | 0811120	**VK2-5MP360INT** | 0765520	**VK2-1080XNPR10Z** | 0771280
3MP Eyeball Camera	5MP Internal Fisheye Camera	1080p VR IR ANPR Bullet Camera
H.264, 2.8-12mm, Remote set up of camera/ lens view, DWDR, Audio 1/1, Alarm 1/1, SD card, 30m IR, IK10/IP66, PoE/12VDC	H.264, 1.05mm, DWDR, Audio 1/1, Alarm 1/1, SD card, PoE/12VDC	H.264, 5.1-51mm, Motor-lens set up, 3-15m read range, TWDR, Audio 1/1, Alarm 1/1, SD card, 20m IR, IP66, PoE/12VDC

PTZ Domes

HD 1080P	HD 1080P
VK2-HDX20-SMW | 0498870	**VK2-HDX23IR-SMW** | 0392820
1080p 20:1 PTZ VR Dome	1080p 23:1 PTZ VR IR Dome
H.264, TWDR, Audio 1/1, Alarm 4/1, IK10/IP66, PoE/12VDC/24VAC	H.265, TWDR, Audio 1/1, Alarm 4/1, 60m IR, IK10/IP66, PoE+/12VDC

4K (8MP) Cameras

4K 8MP STARVIS	4K 8MP STARVIS
VK2-4KXVRDIR36V11M | 0494710	**VK2-4KX30IR-PM** | 0494720
4K (8MP) VR IR Dome	4K (8MP) 30:1 PTZ VR Dome
H.265, 3.6-11mm, Motor-lens set up, P-Iris, Hi-Stream (ROI), Video Analytics, TWDR, Audio 1/1, Alarm 1/1, SD card, 30m IR, IK10/IP66, PoE+/12VDC	H.265, Hi-Stream (ROI), Video Analytics, TWDR, Audio 1/1, Alarm 4/1, 300m IR, IK10/ IP66, PoE+/12VDC

Accessories

VK2-X-CVBS-LEAD | 0476680
Test Lead for VFD/VRD domes

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H5S - 4, 8 and 16 channel NVR

VIPER-H5S-04-000	0394450	0TB
VIPER-H5S-04-1TB	0394480	1TB
VIPER-H5S-04-2TB	0394490	2TB
VIPER-H5S-04-4TB	0394500	4TB
VIPER-H5S-08-000	0394460	0TB
VIPER-H5S-08-2TB	0394510	2TB
VIPER-H5S-08-4TB	0394520	4TB
VIPER-H5S-08-6TB	0394530	6TB
VIPER-H5S-08-8TB	0394540	8TB
VIPER-H5S-16-000	0394470	0TB
VIPER-H5S-16-4TB	0394550	4TB
VIPER-H5S-16-6TB	0394560	6TB
VIPER-H5S-16-8TB	0394570	8TB
VIPER-H5S-16-12TB	0394580	12TB
VIPER-H5S-16-16TB	0394590	16TB

H5 & H5S SPECIFICATION
H.265 & H.264 encoding
8MP realtime recording
Up to 16 PoE channels
SMART, thumbnail and VCA search function
VKBD4 joystick KBD option for PTZ control
Free Viper Central Client software
Free Mobile Apps

Virtual Matrix Controller

VIPER-VMC642-000	0199430	0TB
VIPER-VMC642-1TB	0229030	1TB
VIPER-VMC642-4TB	0229040	4TB
VIPER-VMC642-6TB	0229050	6TB
VIPER-VMC642-8TB	0229060	8TB
VIPER-VMC642-12TB	0229070	12TB
VIPER-VMC642-16TB	0229080	16TB
VIPER-VMC642-24TB	0229090	24TB
VIPER-VMC642-32TB	0229100	32TB

VMC SPECIFICATION
Virtual Matrix control of Viper DVRs and NVRs
64 way UHD 4K Monitor support - main monitor
Sub monitor control of PTZ on multiscreens - splits up to 32 cameras
WARP connection for direct control and set up of NVRs and DVRs
Mirror recording of up to 64 cameras, with .AVI (MP4) download

H5 - 32 channel NVR

VIPER-H5-32-000	0804030	0TB
VIPER-H5-32-4TB	0804090	4TB
VIPER-H5-32-6TB	0804100	6TB
VIPER-H5-32-8TB	0804110	8TB
VIPER-H5-32-12TB	0804120	12TB
VIPER-H5-32-16TB	0804130	16TB
VIPER-H5-32-24TB	0804140	24TB
VIPER-H5-32-32TB	0804150	32TB

H5 - 49 channel NVR

VIPER-H5-49R-000	0683100	0TB
VIPER-H5-49R-8TB	0532710	8TB
VIPER-H5-49R-16TB	0532720	16TB
VIPER-H5-49R-24TB	0532730	24TB
VIPER-H5-49R-32TB	0532740	32TB
VIPER-H5-49R-40TB	0532750	40TB
VIPER-H5-49R-48TB	0532760	48TB
VIPER-H5-49R-56TB	0532770	56TB
VIPER-H5-49R-64TB	0532780	64TB
VIPER-H5-49R-80TB	0532790	80TB

H5 - 49 SPECIFICATION
49 Channel rack mount server chassis
Up to 4K recording resolution at real time
8 Hard drive bays – up to 80TB
RAID recording - 0, 1, 5 and 10

Accessories

VKBD4	0363570	Joystick KBD for Viper H5
VIPER-1U-RM	0567480	Rackmount kit for Viper 1U
VIPER-RM	0813380	Rackmount kit for Viper 2U

Cable

Coax - CCS Copper Coated Steel

RG59/CCS/100	0480010	100m, LSF, black
RG59/CCS/200	0480020	200m, LSF, black
RG59/CCS/500	0480030	500m, LSF, black

Coax - SCC Solid Copper Core

RG59/SCC/100	0480060	100m, LSF, black
RG59/SCC/200	0480070	200m, LSF, black
RG59/SCC/500	0480080	500m, LSF, black

Shotgun - (CCS RG59 and a pair of copper cores for power)

RG59/SG5/100	0480090	100m, LSF, black, 2x 0.5mm²
RG59/SG5/200	0480100	200m, LSF, black, 2x 0.5mm²
RG59/SG75/100	0480110	100m, LSF, black, 2x 0.75mm²
RG59/SG75/200	0480120	200m, LSF, black, 2x 0.75mm²

BNC

VBNC	0442930	Single BNC
VBNC100	0442940	Pack of 100 BNC

CAT5/6

CAT5E/UTP/305/PVC/GREY	0480540	305m, PVC, grey
CAT5E/UTP/305/LSZH/VIOLET	0480560	305m, LSZH, violet
CAT5E/UTP/305/LSZH/WHITE	0480570	305m, LSZH, white
CAT5E/UTP/305/DUCT/BLACK	0480580	305m, DUCT, black
CAT5E/UTP/500/DUCT/BLACK	0480590	500m, DUCT, black
CAT6/UTP/305/PVC/GREY	0480610	305m, PVC, grey
CAT6/UTP/305/LSZH/VIOLET	0480620	305m, LSZH, violet
CAT6/UTP/305/DUCT/BLACK	0480630	305m, DUCT, black

Miscellaneous

2.1MM JACK	0498900	DC jack adaptor
DIAMONDE	0317240	Test monitor TVI/AHD/CVI/IP/HDMI
HDMI LEAD	0473430	1.75m
HDMI/CVBS	0695130	HDMI - CVBS Converter
HUMV	0472580	Ground loop isolation TX (analogue)
VKBD1	0446190	RS485 joystick controller
QBOX	0473150	Lockable box
VSD/16	0349850	16 output RS485 star driver

Power Supplies

12VDC PSU - Encapsulated

VPSU12-500e	0785190	1 x 500mA, 2.1mm plug
VPSU12-1000e	0785200	1 x 1000mA, 2.1mm plug
VPSU-2000e	0785210	1 x 2000mA, 2.1mm plug
VPSU12UNIVe	0785260	1 x 5000mA, 2.1mm plug

12VDC PSU - Cased

VPSU1221EXTe	0785220	1 x 2000mA, IP66
VPSU1241EXTe	0785230	1 x 4000mA, IP66
VPSU1244EXTe	0785240	4 x 1000mA, IP66
VPSU1248EXTe	0785250	8 x 500mA, IP66

24VAC PSU - Encapsulated

VPSU24VAC-750e	0785150	1 x 750mA
VPSU24VAC-1500e	0785160	1 x 1500mA
VPSU24VAC-2000e	0785170	1 x 2000mA
VPSU24VAC-3000e	0785180	1 x 3000mA

24VAC PSU - Cased

VPSU2444EXTe	0785110	4 x 1000mA, IP66
VPSU2488INTe	0785140	8 x 1000mA, internal
VPSU2431EXTe	0785090	1 x 3000mA, IP66
VPSU2441EXTe	0785100	1 x 4000mA, IP66
VPSU2461EXTe	0785120	1 x 6000mA, IP66

Lenses (for box cameras)

VDD28V1214PU	0346450	1/3" CS 2.8-12mm 10cm lead
VDD5V5014PU	0315830	1/3" CS 5-50mm 10cm lead
VDD27V1314IRP-3MP	0631660	1/2.7" CS 2.7-13mm IR 20cm lead
VDD5V5016IRP-2MP	0631670	1/3" CS 5-50mm IR 20cm lead

Housings (for box cameras)

VHE-23LV	0356970	24VAC, MCL, 90x85x260mm
VHE-23HV	0356960	24VAC, MCL, 90x85x260mm

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HDMI Monitors

VFS118WHDA	0338110	18" 1080p, HDMI/VGA/ BNC (TVI/AHD/CVBS)
VFS121WHDA	0773530	21" 1080p, HDMI/VGA/ BNC (TVI/AHD/CVBS)
VFS124WHDA	0773540	24" 1080p, HDMI/VGA/ BNC (TVI/AHD/CVBS)

IP Monitors

VK2 PVM CAMERA RANGE

VK2-PVM10CAM	0406550	10"	Monitor with built-in Full HD 1080p camera, PoE/PoE+
VK2-PVM27CAM	0407030	27"	
VK2-PVM32CAM	0496450	32"	

VK2 PVM DECODER RANGE

VK2-PVM18DEC	0496570	18.5"	Monitor with built-in 4K Decoder, display of live camera images or video Media files, PoE+
VK2-PVM27DEC	0496580	27"	
VK2-PVM32DEC	0496590	32"	

Client PCs

VISTAPC-I5-CL-CLIENTPC	0475360	i5, 8GB RAM, Dual mon o/p
VISTAPC-I7-CL-CLIENTPC	0475400	i7, 16GB RAM, Quad mon o/p
VISTAPC-KBDM	0657290	PC keyboard & mouse

IP PoE Switches

QSW4	0766120	4 port PoE
QSW8	0766130	8 port PoE
QSW16	0486900	16 port PoE
QSW24	0486910	24 port PoE

Analogue/IP - Encoders & Decoders

VK2-HDA-ENC1	0812070	Single channel CVBS/TVI/AHD video to IP encoder. PTZ control - Coaxial (TVI, AHD), RS485 (Vista, Pelco P/D), 12VDC

VIPER-HDAENC16	0495260	16 channel CVBS/TVI/AHD video to IP encoder. PTZ control - Coaxial (TVI, AHD), RS485 (Vista, Pelco P/D). Monitor o/p & built-in GUI, 12VDC

VK2-4KXDECODER	0499770	4K Decoder, display of live camera images or video media files, 12VDC

Optio Cameras

ANALOGUE CAMERAS		IP CAMERAS
BULLET RANGE		**BULLET RANGE**
OPA4BL28IR (0485820) 2.8mm lens, 30m IR, 12VDC Mounting options - see group A		**OPI4BL28IR** (0485880) 2.8mm lens, 30m IR, 12VDC/PoE Mounting options - see group A
OPA4BL28V12IR (0485830) 2.8-12mm lens, 60m IR, 12VDC Mounting options - see group B		**OPI4BL28V12IR** (0485890) 2.8-12mm lens, 60m IR, 12VDC/PoE Mounting options - see group B
EYEBALL/TURRET RANGE		**EYEBALL/TURRET RANGE**
OPA4ED28IR (0485840) 2.8mm lens, 30m IR, 12VDC Mounting options - see group C		**OPI4ED28IR** (0485900) 2.8mm lens, 30m IR, 12VDC/PoE Mounting options - see group C
OPA4ED28IRG (0499550) 2.8mm lens, 30m IR, 12VDC - grey Mounting options - see group D		**OPI4ED28IRG** (0499540) 2.8mm lens, 30m IR, 12VDC/PoE - grey Mounting options - see group D
OPA4ED28V12IR (0485850) 2.8-12mm lens, 50m IR, 12VDC Mounting options - see group E		**OPI4ED28V12IR** (0485910) 2.8-12mm lens, 50m IR, 12VDC/PoE Mounting options - see group E
OPA4ED28V12IRG (0665830) 2.8-12mm lens, 50m IR, 12VDC - grey Mounting options - see group F		**OPI4ED28V12IRG** (0665840) 2.8-12mm lens, 50m IR, 12VDC/PoE - grey Mounting options - see group F
VANDAL DOME RANGE		**VANDAL DOME RANGE**
OPA4VD28IR (0485860) 2.8mm lens, 30m IR, 12VDC Mounting options - see group G		**OPI4VD28IR** (0485920) 2.8mm lens, 30m IR, 12VDC/PoE Mounting options - see group G
OPA4VD28V12IR (0485870) 2.8-12mm lens, 30m IR, 12VDC Mounting options - see group H		**OPI4VD28V12IR** (0485930) 2.8-12mm lens, 30m IR, 12VDC/PoE Mounting options - see group H

KEY FEATURES	
Analogue - Quad video format: CVI/TVI/AHD/CVBS (D1)	IP - H.265 smart codec
4MP True Colour Sensor	
IP67 - Outside installations	
Integrated IR illumination	
Varifocal or fixed lens options	

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Mounting Options

BULLET RANGE
GROUP A
Junction box = OPJB1
Pole Mount = OPJB1 + OPSPMA
GROUP B
Junction box = OPJB2
Pole Mount = OPJB2 + OPSPMA

EYEBALL/TURRET RANGE
GROUP C
Junction box = OPJB3
Pole Mount = OPJB3 + OPSPMA
Wall Mount = OPWB2
GROUP D
Junction box = OPJB3G
GROUP E
Junction box = OPJB4
GROUP F
Junction box = OPJB4G

VANDAL DOME RANGE
GROUP G
Junction box = OPJB5
Pole Mount = OPJB5 + OPSPMA
Wall Mount = OPWB1
GROUP H
Junction box = OPJB4
Pole Mount = OPJB4 + OPSPMA
Wall Mount = OPWB1
Pendant Mount = OPPNPL + OPPNMA
In Ceiling = OPCL1
OPTIONAL EXTRA FOR VANDAL DOME RANGE
Rain Shield = OPRS1

Accessories

OPNET20 (0568490) 20m RJ45 patch cable
OPCOAX20 (0569580) 20m shotgun DC power/coax patch cable
OP4WJACK (0572080) 4 way DC power splitter
VPSU12/2000e (0785210) 12VDC 2A PSU (up to 4 cameras)

Mounting Products

OPJB1
(0486020)
Junction Box

OPJB2
(0486030)
Junction Box

OPJB3
(0486040)
Junction Box

OPJB3G
(0667820)
Junction Box

OPJB4
(0486050)
Junction Box

OPJB4G
(0580500)
Junction Box

OPJB5
(0486060)
Junction Box

OPWB1
(0486070)
Wall Bracket

OPWB2
(0486080)
Wall Bracket

OPWB1G
(0580510)
Wall Bracket

OPSPMA
(0486920)
Side Pole Mount Adaptor

OPCL1
(0486090)
In Ceiling Adaptor

OPPNPL
(0486120)
Pendant Mount Drop Pole
(must be sold together with OPPNMA)

OPPNMA
(0486110)
Pendant Adaptor
(must be sold together with OPPNPL)

OPRS1
(0486100)
Rain Shield

Optio Recorders

DVR (ANALOGUE)*	
4 CHANNEL	
1TB STORAGE	OPDVR04-1TB (0664900)
2TB STORAGE	OPDVR04-2TB (0664910)
4TB STORAGE	OPDVR04-4TB (0664920)
8 CHANNEL	
2TB STORAGE	OPDVR08-2TB (0664940)
4TB STORAGE	OPDVR08-4TB (0664950)
8TB STORAGE	OPDVR08-8TB (0664970)
16 CHANNEL	
4TB STORAGE	OPDVR16-4TB (0665000)
6TB STORAGE	OPDVR16-6TB (0665010)
8TB STORAGE	OPDVR16-8TB (0665020)
10TB STORAGE	OPDVR16-10TB (0665030)

NVR (IP)*	
4 CHANNEL	
1TB STORAGE	OPNVR04-1TB (0664730)
2TB STORAGE	OPNVR04-2TB (0664740)
4TB STORAGE	OPNVR04-4TB (0664750)
8 CHANNEL	
2TB STORAGE	OPNVR08-2TB (0664770)
4TB STORAGE	OPNVR08-4TB (0664780)
8TB STORAGE	OPNVR08-8TB (0664800)
16 CHANNEL	
4TB STORAGE	OPNVR16-4TB (0664830)
8TB STORAGE	OPNVR16-8TB (0664850)
12TB STORAGE	OPNVR16-12TB (0664870)
16TB STORAGE	OPNVR16-16TB (0664880)
20TB STORAGE	OPNVR16-20TB (0664890)

DVR KEY FEATURES
4K HDMI display (simultaneous VGA @ 1080p)
P2P – easy APP setup (iOS & Android)
Smart fan technology – energy / noise reduction
H.265 smart codec – efficient compression
Quad video format – CVI/TVI/AHD/CVBS
HDD Storage - Up to 10TB (1 x HDD bay)

NVR KEY FEATURES
4K HDMI display (simultaneous VGA @ 1080p)
Up to 8 Megapixel recording resolution
P2P – easy APP setup (iOS & Android)
H.265 smart codec – efficient compression
PoE per channel
HDD Storage - Up to 10TB (1 x HDD bay) on 4 & 8 channel & up to 20TB (2 x HDD bay) on 16 channel

*Other hard drive storage sizes are available upon request.

HDD Storage Chart*

IMAGES PER SECOND (IPS)	CHANNELS	D1	1080P	4MP
25ips	1	140GB	500GB	Max 20ips @4MP
	4	550GB	2TB	
	8	1.1TB	4TB	
	16	2.2TB	8TB	
20ips	1	110GB	400GB	800GB
	4	440GB	1.6TB	3TB
	8	880GB	3.2TB	6TB
	16	1.75TB	6.4TB	12TB
10ips	1	60GB	200GB	400GB
	4	220GB	800GB	1.6TB
	8	450GB	1.6TB	3.2TB
	16	900GB	3.2TB	6.4TB

*All calculations are based on 24/7 x 31 days recording with 100% motion.

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Optio Monitors

19.5" MONITOR

OP195MON (0492340)
Wide screen VGA/HDMI

22" MONITOR

OP220MON (0492350)
Wide screen VGA/HDMI

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