VANDERBILT

A whole world of Video Surveillance

Overview Brochure

www.**vanderbiltindustries**.com

Video solutions for every environment, for every application, for every customer

Video surveillance provides full visual control over a facility around the clock. With the help of digital storage you can identify people and provide evidence that a series of events has occurred.

Video surveillance improves security and safety, and is used today in sectors ranging from retail to industrial complexes and other types of buildings.

Vanderbilt provides a complete range of video surveillance products and systems. This includes IP and analogue cameras, lenses, digital video recorders (DVRs), monitors and much more.

Portfolio overview

- IP and analogue cameras
- Day/night cameras
- Dome cameras
- Vectis AX analogue digital video recorders
- Vectis iX NVR / NVS and CMS
- Vectis HX hybrid video recorders
- SISTORE MX hybrid digital video recorders
- Lenses, monitors and power supplies
- Housings, mounts and other accessories
- CNE encoders

Vanderbilt IP Video Surveillance

IP means new performance for your video surveillance; hard disk recording, easy off-site storage, scalability, remote access to live images, real-time monitoring and remote camera adjustment through PC web browsers over existing IP network connections.

Unlike an analogue system there is potentially no limit to the number of components on the network. Utilising an IP network enables integration with other Vanderbilt systems including access control and intruder detection, as well as the option for remote monitoring of additional sites.

Due to the open technology aspect of IP compared to the closed circuit technology associated with analogue systems, IP CCTV systems have the capability of greatly increased functionality and higher resolution resulting in greater picture quality.

Working with IP cameras

An IP based Ethernet network infrastructure is often already in place, which means the IP camera can easily be connected to the nearest network connection. Simply set the IP address and you're up and running!

Adding more IP cameras to a system is as easy as the first one. With the facility of Power over Ethernet (PoE) - supplying power directly over the network cable - an external power supply is unnecessary, making installation much easier.

Why choose Vanderbilt IP cameras?

Vanderbilt network IP cameras offer selectable compression as standard, ensuring the highest flexibility and allowing a system to be optimised depending upon image quality or bandwidth. The latest high performance CMOS technology sensors enable very high light sensitivity and deliver outstanding images, whether used indoors or outdoors at any time of the day.

With a camera range that encompasses VGA to 5MP image quality and is ONVIF compliant, Vanderbilt's IP camera portfolio offers the best image quality along with n easy and seamless integration platform to 3rd party systems.

The easy-to-use networkable, indoor Compact D/N cameras, are stylish and specially designed for home security applications. With their ultra compact size, they incorporate many advanced features to match security requirements. With a range of resolutions upto 5 megapixels, Vanderbilt IP cameras have the ability to deliver more image details when required.

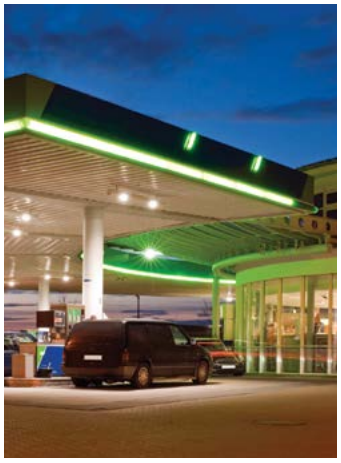
Vanderbilt IP cameras capture and send live streaming video directly over an IP network enabling users to view and manage the camera using a standard Web browser on any local or remote computer.

Vanderbilt NVS software packages are designed to control, monitor, record, playback and provide remote access to any IP cameras or IP video transmitters on the network, while integrating with digital video recorders. ONVIF compatibility supports the connection of the latest Vanderbilt IP camera range, and many 3rd party ONVIF compliant cameras.

With a wide range of solutions to choose from, the Vanderbilt IP camera portfolio ensures that the best camera solution is available for any networking working application.

Vanderbilt IP camera range

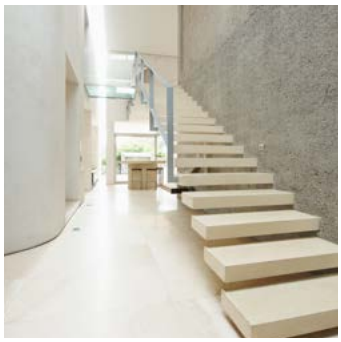
- 5MP and 3MP bullet cameras
- 3MP speed dome
- 3MP domes and box cameras
- 2MP domes and box cameras
- 1MP domes and box camera
- 2MP compact cameras
- Lenses



Vanderbilt IP camera range

Bullet Cameras

Vanderbilt Full HD bullet cameras are day/night cameras with high resolution 3 or 5MP capabilities. Designed into compact and attractively styled housings these cameras are suitable for both indoor and outdoor use.



	5MP Bullet Camera	3MP Bullet Camera
		
Model number	**CCPW5025-IR**	**CCPW3025-IR**
Image sensor	1/3.2" progressive scan CMOS sensor	1/3" progressive scan CMOS sensor
Minimum illumination	Colour 0.16 lux at 50 IRE, F1.2	Colour 0.17 lux at 50 IRE, F1.2
B/W	B/W: 0.01 lux at 50 IRE, F1.2	B/W: 0.01 lux at 50 IRE, F1.2
Pixels	2592(H) x 1944(V)	2048(H) x 1536(V)
Lens	Megapixel vari-focal lens, f3~9 mm, F1.2, auto iris Horizontal FOV 78~28° Motorized remote lens control: zoom, focus, autofocus	Megapixel vari-focal lens, f3~9 mm, F1.2, auto iris Horizontal FOV 78~28° Motorized remote lens control: zoom, focus, autofocus
Power consumption	11 W	11 W
Dimensions (L x W x H)	264 x 102 x 115 mm	264 x 102 x 115 mm
Weight	1.6 kg	1.6 kg

3MP Speed Dome

This IP PTZ dome offers 3MP resolution H.264 MJPEG streaming, and delivers crisp video images. The integrated pan/tilt mechanism allows comfortable tracking of moving objects and people and precise positioning to predefined positions in the scene in case of an alarm.

	3MP Speed Dome
	
Model number	**CCMD3025-DN18**
Image sensor	1/2.8" CMOS
Minimum illumination	0.69 lux@50IRE (1.6; 1/50 s)
Pixels	2048(H) x 1536(V)
Image compression	H.264 / MJPEG
Programmable presets	64
Pan speed	0.1 - 120 °/s
Tilt speed	0.1 – 45 °/s
Zoom	72x (18x optical and 4x digital)
Power consumption	48 VDC / 24 VAC / PoE+
Signal / Noise ratio	>50 dB
Power requirements	24VAC / PoE+ IEEE 802.3 at Class 4
Focal length	f=4.7 mm (wide) to 84.6 mm (tele)
Angle of view	67.3° (wide end) to 2.4° (tele end)
Dimensions (ø x H)	134 x 219.9 mm
Privacy zones	On/Off , 4 zones
Day / Night function	Mechanically movable IR-cut filter
Weight	2.1 kg

IP cameras - box and dome cameras

	3MP Box Camera	3MP Fixed Dome	3mp Vandal Proof Dome with IR
			
Model number	**CCMW3025**	**CFMW3025**	**CVMW3025-IR**
Image sensor	1/3" AR0330 CMOS	1/3" AR0330 CMOS	1/3" AR0330 CMOS
Minimum illumination	Colour: 0.5 lux (F1.2) 50 IRE	Colour: 0.3 lux (F1.2) 50 IRE	Colour: 0.3 lux (F1.2) 50 IRE
B/W	0.3 lux (F1.2) 50 IRE	0.1 lux (F1.2) 50 IRE, 1/30, Max. Gain	0.1 lux (F1.2) 50 IRE, 1/30, Max. Gain
Pixels	2048 (H) x 1536 (V)	2048 (H) x 1536 (V)	2048 (H) x 1536 (V)
Wide dynamic	Yes	Yes	Yes
Compression	H264 / MJPEG (triple simultaneous streaming)	H264 / MJPEG (triple simultaneous streaming)	H.264 / MJPEG (triple simultaneous streaming)
Lens / Lens mount	C/CS with adapter	Motorised varifocal IR coated, F1.2, 3 – 9 mm	Motorised varifocal IR coated, F1.2, 3 – 9 mm
Power consumption	6.5 W	5.5 W	8 W
Signal / Noise ratio	>50 db	>50 dB	>50 dB
Power requirements	12 VDC / 24 VAC / PoE	12 VDC / 24 VAC / PoE	24 VAC / PoE
Dimensions (L x W x H) or (Ø x H)	132 x 72 x 63 mm	126 x 115 mm	140 x 115 mm
Weight	0.42 kg	0.48 kg	1.2 kg

Up to 3MP

Our latest range of 3 megapixel cameras combines classic analogue requirements and IP flexibility to satisfy the wide range of technical and operational demands of modern security environments. The combination of H.264 & MJPEG triple-streaming functionality and ONVIF Profile S compatibility means that this range of cameras integrates easily into third-party systems.

IP cameras - box and dome cameras (cont)

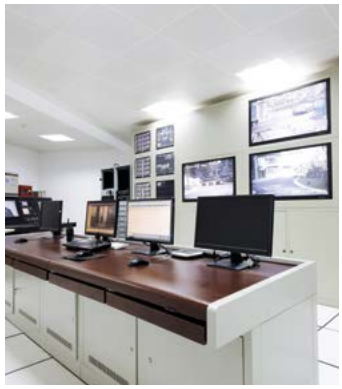
IP Cameras and Domes

Our comprehensive range of true IP security cameras combines classic analogue camera features with the high flexibility and IT security of modern video over IP devices.

Offering Web server, firewall and motion detection as integrated features, these box and dome cameras are really future-proof as they can be used in either traditional CCTV systems (via BNC connection), or in IP networks – thanks to Vanderbilt's Hybrid Technology. Additionally, the compression standard is selectable between MJPEG, MPEG4 or H.264, ensuring the highest flexibility and allowing the system to be optimised depending on image quality or bandwidth when streaming over a network.

	2MP Compact Camera	2MP Wireless Compact Camera	2MP Box Camera	2MP Fixed Dome	2MP Vandal Proof Dome with IR
					
Model number	**CCMS2010-IR**	**CCMS2010-IRW**	**CCMS2025**	**CFMS2025**	**CVMS2025-IR**
Image sensor	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/3 (1/2.7") 1080p HD CMOS sensor	1/3" (1/2.7") 1080p HD CMOS	1/3" 1080p HD CMOS
Minimum illumination	Colour: 0.2 lux (F2.0) 30 IRE	Colour: 0.2 lux (F2.0) 30 IRE	Colour: 0.2 lux (F1.2) 50 IRE	Colour: 0.5 lux (F1.2) 50IRE	Colour: 0.5 lux (F1.2) 50IRE
B/W	0.02 lux (F2.0) 30 IRE	0.02 lux (F2.0) 30 IRE	0.1 lux (F1.2) 50 IRE	0.3 lux (F1.2) 50 IRE	0.0 lux (F1.2) 50 IRE with IR illuminators on
Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Compression	H264 / MJPEG (quadruple streaming)	H264 / MJPEG (quadruple streaming)	MPEG4 /MJPEG / H.264 (triple simultaneous streaming)	MPEG4 / MJPEG / H.264 (triple simultaneous streaming)	H.264 / MPEG4 / MJPEG (triple streaming)
Signal / Noise ratio	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB
Lens / Lens mount	2.8 mm ; F2.0	2.8 mm ; F2.0	C/CS with adapter	3 - 9 mm varifocal	3 – 9 mm varifocal
Privacy zones	Yes	Yes	8	8	8
Power consumption	<4 W	<4 W	5.5 W	5.5 W	8.4 W
Power requirements	12 VDC / PoE	5 VDC (micro USB)	12 VDC / 24 VAC / 50 Hz / PoE	12 VDC / 24 VAC / PoE	12 VDC / 24 VAC / PoE
Dimensions (L x W x H) or (ø x H)	56 x 96.5 x 61.40 mm	56 x 96.5 x 61.40 mm	72 x 63 x 122 mm	126 x 115 mm	140 x 115 mm
Weight	0.12 kg	0.12 kg	(approx.) 0.43 kg	0.48 kg	1.2 kg

	VGA Box camera	1MP IP Box camera	VGA IP Fixed dome	1MP IP Fixed dome
				
Model number	**CCIS1425**	**CCMW1025**	**CFIS1425**	**CFMW1025**
Image sensor	1/4" CMOS sensor	1/3" WDR 720P CMOS sensor	1/4" VGA CMOS	1/3" 720P CMOS
Minimum illumination	0.5 lux	0.5 lux (F1.2) 50 IRE	0.2 lux (F1.2) 50 IRE	0.5 lux (F1.2) 50 IRE
B/W	0.1 lux (F1.2) 50 IRE	0.3 lux (F1.2) 50 IRE	0.1 lux (F1.2) 50 IRE	0.3 lux (F1.2) 50 IRE
Pixels	680 (H) x 512 (V)	1280 (H) x 720 (V)	680 (H) x 512 (V)	1280 (H) x 720 (V)
Wide dynamic	•	•		•
Focal length			Varifocal 3 mm (W) – 9 mm (T)	Varifocal 3 mm (W) – 9 mm (T)
Compression	MPEG4 /MJPEG / H.264 (triple simul-taneous streaming)	MPEG4 /MJPEG / H.264 (triple simul-taneous streaming)	MPEG4 / Motion JPEG / H.264 (triple simultaneous streaming)	MPEG4 / MJPEG / H.264 (triple simul-taneous streaming)
Signal / Noise ratio	>50 dB	>50 dB	>50 dB	>50 dB
Lens / Lens mount	C/CS with adaptor	C/CS with adapter	3 - 9 mm varifocal	3 - 9 mm varifocal
Privacy zones	8	8	8	8
Power consumption	5.5 W	5.5 W	5.5 W	5.5 W
Operating temperature	0 – 50ºC	0 – 50ºC	0 – 50 °C	0 – 50 °C
Power requirements	12 VDC / 24 VAC / PoE	12 VDC / 24 VAC / PoE	12 VDC / 24 VAC / PoE	12 VDC / 24 VAC / PoE
Dimensions (L x W x H) or (ø x H)	122 x 72 x 63 mm	122 x 72 x 63 mm	126 x 115 mm	126 x 115 mm
Weight	0.43 kg	0.43 kg	0.48 kg	0.48 kg



PoE
Power over Ethernet

H.264

ONVIF
Driving network video through global standardization

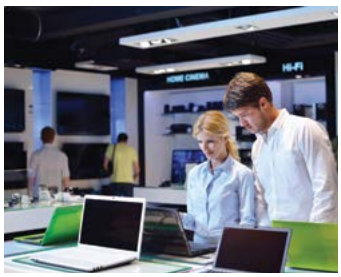
Full HD 1080

IP cameras - box and dome cameras (cont)

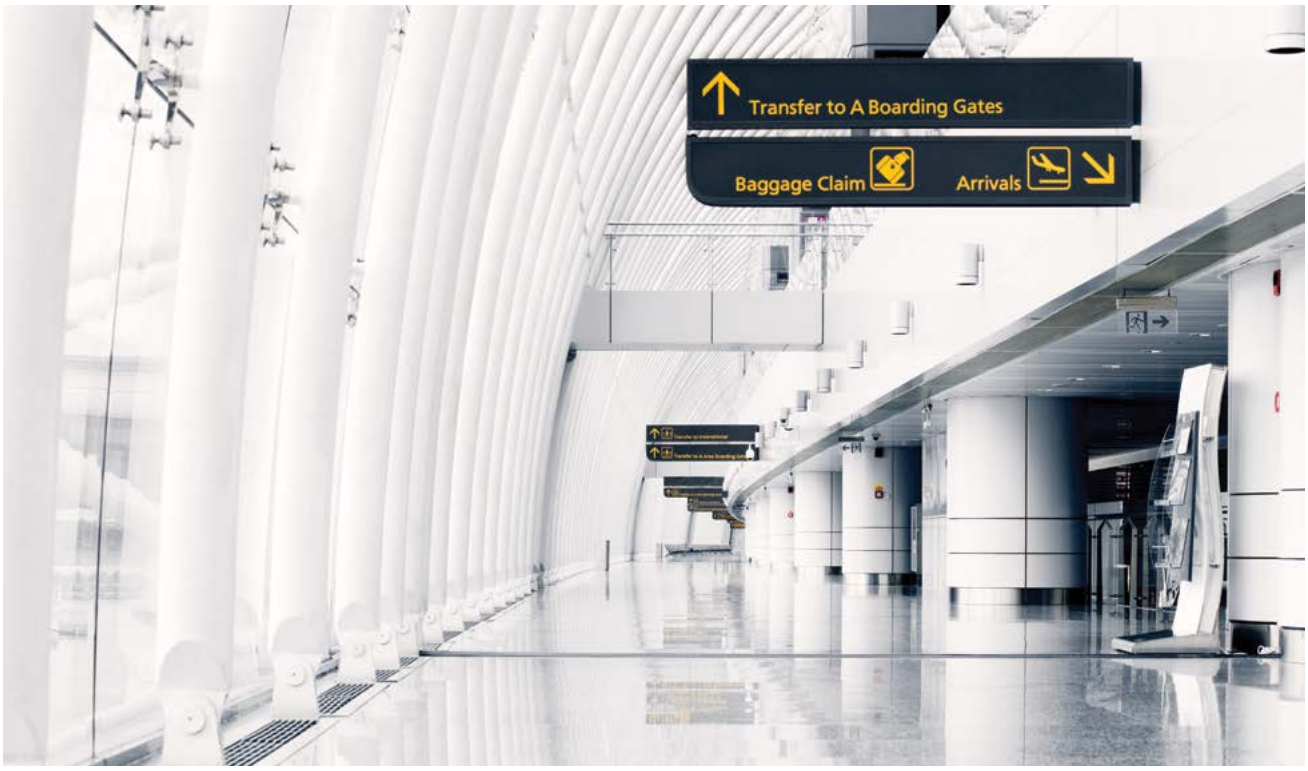
High Speed Dome Cameras

IP dome cameras are available in three day/night models with exceptional functionality in challenging light conditions.

Mechanical IR filters make it possible to produce clear monochrome images. A wide range of mounting accessories is available, including outdoor, indoor or vandal-resistant camera housings.



	D1 IP Speed dome	D1 IP Speed dome	D1 IP Speed dome
			
Model number	**CCID1445-DN18**	**CCID1445-DN28**	**CCID1445-DN36**
Image sensor	1/4" Ex-View CCD	1/4" Ex-View CCD	1/4" Ex-View CCD
Minimum illumination	Colour: 0.7 Lux (F1.4; 1/50 s)	Colour: 1.0 Lux (F1.6; 1/50 s)	Colour: 1.4 Lux (F1.6; 1/50 s)
B/W	0.01 Lux (F1.4; 1/3 s)	0.01 Lux (F1.4; 1/3 s)	0.01 Lux (F1.4; 1/3 s)
Focal length	4.1 - 73.8 mm	3.5 - 98.0 mm	3.4 - 122.4 mm
Horizontal resolution	530 TVL	530 TVL	530 TVL
Pixels	752 (H) x 582 (V)	752 (H) x 582 (V)	752 (H) x 582 (V)
Wide dynamic	Yes	Yes	Yes
Compression	H.264 / MPEG4 / MJPEG	H264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Signal / Noise ratio	>50 db	>50 db	>50 db
Zoom	216 x (18 x optical and 12 x digital)	336 x (28 x optical and 12 x digital)	432 x (36 x optical and 12 x digital)
Privacy zones	8	8	8
Power consumption	25 VA	25 VA	25 VA
Presets	64	64	64
Operating temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Power requirements	24 VAC / PoE+	24 VAC / PoE+	24 VAC / PoE+
Dimensions (ø x H)	134 x 220 mm	134 x 220 mm	134 x 220 mm
Weight	1.85 kg	1.85 kg	1.85 kg



	Megapixel Lenses			
				
Model number	**CLVD1316/3-8**	**CLVD1316/5-50**	**CLVD1316/ 2.8-8**	**CLVD1316/8-50**
Focal length	3 – 8 mm	5 – 50 mm	2.8 – 8 mm	8 – 50 mm
Video sensor size (recommanded for)	1/3"	1/3"	1/3" (1/2.7" compatible)	1/3" (1/2.7" compatible)
Recommended resolution	Up to 1.5MP	Up to 1.5MP	Up to 3MP	Up to 3MP
Mounting	CS	CS	CS	CS
Focus type	Manually adjustable with lock	Manually adjustable with lock	Manually adjustable with lock	Manually adjustable with lock
Maximum relative aperture	F1.0 – F360	F1.4 – F360	F1.2 – F360	F1.6 – F360
Horizontal angle of view	35.4° – 92.5°	5.5° – 53.8°	35.8° – 100.1°	5.6° – 33.5°
Aspherical lens	Yes	Yes	Yes	Yes
Iris	Direct Drive (DC) Auto-Iris			
Minimum object distance	0.3 m	1 m	0.3 m	0.3 m
IR corrected (for day / night cameras)	No	No	Yes	Yes
Dimensions - max length	58 mm	64 mm	57 mm	73.5 mm
Operating temperature	-20 – +60 °C	-20 – +60 °C	-20 – +60 °C	-20 – +60 °C
Weight	0.075 kg	0.077 kg	0.07 kg	0.17 kg

Megapixel Lenses

Vanderbilt innovative Megapixel lenses have been developed to ensure they are compatible with the latest IP cameras in the market. Our ultra-high resolution lenses (up to 3 megapixels) deliver maximum performance thanks to their innovative optical technology, and offer excellent contrast from the centre of the image to the edges.

All Vanderbilt lenses benefit from aspherical glass, and ensure sharp, noise-free images. All models are direct-drive (DC) auto iris, and their high optical and mechanical quality makes these lenses an excellent choice for security applications. Adjustable screw locks ensure focal-length and focus adjustments are easy to set up and secure. The day/night lens lineup maintains focus from the visible light range to near infrared.

The Video Surveillance map

Our video surveillance map has a path to satisfy every security challenge and suit every environment; IP and analogue, from single sites to multi-site security networks with international control rooms, from end users to installers.

Our portfolio can help you create a state-of-the-art security solution while seamlessly integrating with cameras, intrusion detection and access control systems from Vanderbilt and almost any third party. Let us show you how to maximise your security today, whilst future-proofing the investments you have already made in video surveillance.

Analogue box cameras

Analogue fixed dome / vandal-resistant dome cameras

Control Room

Vectis iX CMS

Web Browser

APP access

Hybrid Systems

SISTORE MX 3G HVR

Up to 32 IP and analogue cameras can be connected to the SISTORE MX3G system. Doing so allowstrue digital recording of the cameras and displaying them on a monitor, and also provides the full functionality of the digital video recorder, such as motion and sabotage detection or alarm generation.

Analogue cameras

CNE Encoders

Vanderbilt state-of-the-art IP encoders are the ideal devices to support the cost effective migration of analogue to IP video systems.

VECTIS HX HVR

Designed and engineered for the next generation of hybrid camera technology, Vectis HX HVR Bridges analogue and IP, it provides crisp, Full HD display clarity, whilst promoting high, feature-rich performance. The Vectis HX HVR means users can make simple and cost- effective migration to IP video surveillance at their own pace, with scalability from a single to multi-site system.

IP cameras

VAND

VANDERBILT

Vectis AX

Analogue Systems

Third Party network devices (e.g. Router)

IP Bridge

The entire range of IP box and fixed dome cameras are specially designed to allow images to be transmitted over an Ethernet network.

IP Systems

High speed IP dome cameras

Vectis iX NVR and NVS software

With the speed and performance to capture greater detail than ever before, the Vectis iX Recorder range supports IP cameras of up to 20MP from over 90 vendors using combined ONVIF and SDK compatibility.

Its 288Mb/s throughput performance easily records 48 IP 3MP cameras at 25ips, and with a broad range of recording options including iSCSI Vectis iX is both scalable and suitable for both small installations and complex multi-site nvironments when using CMS. Available in hardware and software options ranging from 6-64 channels, it doesn't miss a single detail.

IP fixed dome / vandal-resistant dome cameras

SISTORE MX NVR and NVS software

SISTORE MX NVS is a software solution for network-based video monitoring. Users can display, record and play back live images and access them via a network. Suitable for multiple applications; office buildings, retail stores or banks, for the surveillance of rooms, buildings, production workshops etc.

Third Party Cameras

01 LAN

02 COAX

Recording Devices - The Vectis Range

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Vectis iX Network Video Recorders

The new Vectis iX NVR Network-Video Recorder delivers a unique combination of industry leading performance and unrivalled compatibility, allowing connectivity to more than 1000 camera models, using combined ONVIF and SDK compatibility.

Available in hardware options ranging from 6-48 channels, its very powerful speed and performance enable you to capture greater detail than ever before, recording full-HD images from up to 48 cameras simultaneously at 25 frames per second and supporting resolutions of up to 20 megapixels.

IP accessories

- Vectis iX keyboard
- HDD extension kits (1, 2, 3 & 4TB variants)
- Vectis iX POS box
- Vectis iX RAID card

	Vectis iX NVR Range	
		
Product	**Vectis iX06**	**Vectis iX16.32.48**
CPU	Intel® Celeron® G1610 Processor	Intel® Core™ i5-2400 Processor
Operating System (OS)	Windows 7 Embedded	
Network protocols	TCP/IP, UDP, HTTP, HTTPs, SMTP, SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x	
IP camera license	6ch	16ch, 32ch, 48ch
Display performance	D1@480fps / 1.3MP@240fps / 2MP@125fps	D1@1200fps / 1.3MP@780fps / 2MP@425fps
Recording throughput	Max.72Mb	Max.288Mb
Recording resolution	D1, 1.3~20 Megapixel	
Video codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG	
Audio codec	Two-Way Audio, G. 711, G.726, AAC	
ONVIF support	Onvif 2.2, Profile-S	
Intelligent video analytics	Missing Object, Foreign Object, E-fence, Video Motion Detection and people counting	
APP client	iOS (iPhone, iPad), Android	
Internal recording capacity	2 TB (2x HDDs)	24 TB (6x HDDs), RAID 0, 1, 5, 6 (Option)
Local display	HDMIx1, DVIx1	VGAx1, HDMIx1, DVIx1
Local display resolution	1920x1200	
Hard disk drive	SATA	
Hard disktTrays (Bays)	2 pcs	6 pcs
Supplied storage capacity	1 TB	4 TB, 8 TB, and 18 TB (model dependent)
RAID level	n/a	RAID 0, 1, 5, 6 (Option)
USB port	USB 2.0 Front x2, Rear x2 ; USB 3.0 Rear x2	USB 2.0 Front x2, Rear x4
Communication port	RS232 x1 ; RS232/422/485 x1 - Rear I/O	RS232 (Header) x1 - Onboard I/O
Audio port	Front: MIC-in x1, Headphone x1; Rear: MIC-in x1, Lineout x1, Line-in x1	Rear: MIC-in x1, Line-out x1, Line-in x1

	Vectis iX NVS Range
	
Product	**Vectis iX08.16. 32. 48. 64 NVS**
Operating System (OS)	Windows 7 (32 & 64 Bit)
Network protocols	TCP/IP ,UDP, HTTP, HTTPs, SMTP,SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x
Recording resolution	D1~20 Megapixel
Video codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG
Monitors	Up to 4 Monitor outputs
Audio codec	Two-Way Audio, G. 711, G.726, AAC
Onvif support	Onvif 2.2, Profile-S
Global Features	
Viewing operation	ROI (Region of Interest), Tour
Intelligent search (Replay)	Missing Object (Object take away), Foreign Object (Object left behind)
Intelligent video analytics	E-fence, Video Motion Detection on all channels People counting 1 dedicated channel only
APP client	iOS (iPhone, iPad), Android
Client software	Vectis iX CMS, Vectis iX96 RAS
Supports client numbers	5 CMS links per NVS device. Max. Live Session : 40 Max. playback Session: 1 Max. Mobile Client Streaming (fps): 30
POS license	8 x POS license per NVS included (requires optional POS-Box)
POS integration	Integration via POS Editor using optional external Pos-Box, POS box communicate with NVR via network and with POS machine with DB-9 connector, Y-cable and RS232 protocol.

Vectis iX Network Video Software

The new Vectis iX NVS is a powerful network video software that supports network-based video monitoring and recording of up to 64 IP cameras. Vectis iX NVS Network-Video Recording software delivers a unique combination of industry leading performance and unrivalled compatibility. Vectis iX NVS allows connectivity to more than 1000 camera models using combined ONVIF and SDK compatibility.

Available in software licenses ranging from 8 to 64 channels, its very powerful speed and performance enable you to capture greater detail than ever before.

Recording of full-HD images from up to 64 cameras is possible simultaneously at 25 frames per second (depending on PC performance) and supporting resolutions of up to 20 megapixels.

	Vectis iX CMS Range
Product	**Vectis iX32 CMS, Vectis iX128 CMS, Vectis iXUN CMS**
Operating System (OS)	Windows 7 (32 & 64 Bit) and higher
Network protocols	TCP/IP ,UDP, HTTP, HTTPs, SMTP,SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x
IP camera license	32, 128 and 300 (UN **) camera licenses supported
Video codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG
Audio codec	Two-Way Audio, G. 711, G.726, AAC
Global Features	
Configurations	Configurations of NVR/NVS, Camera, Event, Alarm, Device, Digital I/O, etc.
User authority	Export Video Clip, PTZ Control, Live View, Playback, Alarm Search, Configuration, Remote System Control, etc.
E-map	Mapping Cameras and Digital I/O Points, Map Hyperlink (HTML knowledge required)
PTZ control	PTZ Control, Preset Point, Patrol, Digital PTZ
Synchronous playback	up to 16ch
Intelligent search (Replay)	Missing Object (Object take away), Foreign Object (Object left behind)
Intelligent video analytics	E-fence, Video Motion Detection on all channels People counting 1 dedicated channel only
Alarm event / search	Video Loss, Sensor Triggered, HDD Crashed, System Crashed, Abnormal Transaction, E-fence, Video Motion Detection
Alarm in / alarm out	Support of optional external DI/DO modules via Modbus Protocol (Master, Slave)

Vectis iX CMS

Vectis iX CMS, a centralized Management software platform, manages up to 300ch cameras and displays 112ch real-time video on 4 monitors.

Vectis iX CMS supports 16ch synchronous playback, multicast, tour, Region Of Interest, Video Motion Detection, IVA, e-map, event, alarm, notification and digital watermark video export functions which allow user to easily manage and control surveillance system.

Vectis iX CMS is reliable and suitable for large scale project, including government buildings, offices, factories, campuses, hotels, banks, retail chain stores, shopping malls (depending on PC performance) and supports resolutions of up to 20 megapixels.

Vectis - Hybrid Video Recording

Vectis HX HVR and NVS

Vectis HX HVR has been designed and engineered with the next generation of hybrid technology in mind. By bridging the technological division between analog and IP surveillance capabilities, the Vectis HX has the ability to provide crisp, full HD display clarity, whilst maintaining high, feature-rich performance.

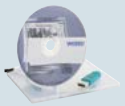
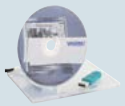
With powerful search options and extensive storage capabilities, the Vectis HX offers users a simple and cost-effective migration to IP video surveillance. The flexible design makes it suitable for a number of applications ranging from single system to multi-site requirements.

	Vectis HX HVR	
		
Model number	**Vectis HX0808 1000/300**	**Vectis HX1616 3000/500**
Video inputs (analogue)	8	16
Maximum number of IP cameras	8	16
Monitor outputs	5 (1 x HDMI, 2 x BNC; 2 x VGA)	5 (1 x HDMI, 2 x BNC; 2 x VGA)
Audio inputs / outputs	RCA Input: 8 or 16 Line In / RCA Output: 1, Line Out	RCA Input: 8 or 16 Line In / RCA Output: 1, Line Out
Resolution in view mode	Max. 1920 x 1080	Max. 1920 x 1080
Hard disk size (standard)	1 TB	3 TB
Maximum hard disk capacity	12 TB = (1x1 TB system + 4x3 TB datas)*	12 TB = (1x1 TB system + 4x3 TB datas)*
File format	H.264	H.264
Resolution (analogue)	CIF / 2CIF / 4CIF	CIF / 2CIF / 4CIF
Resolution (IP)	Optimum 2MP	Optimum 2MP
Maximum recording speed (analogue)	200ips@4CIF	400ips@4CIF
Maximum recording speed (IP)	100ips	100ips
Alarm inputs / outputs	8	16
Outputs	4	4
PTZ / Dome control	Yes	Yes
Password protection	Yes	Yes
Integrated DVD burner	Yes	Yes
Power supply	100 to 240 VAC, 2.0 – 1.0 A, 50 / 60Hz	100 to 240 VAC, 2.0 – 1.0 A, 50 / 60Hz
Dimensions (W x H x D)	430 x 88 x 490 mm	430 x 88 x 490 mm

*(no use of external eSATA interface)

	Vectis HX NVS			
				
Model number	**Vectis HX NVS 8**	**Vectis HX NVS 16**	**Vectis HX NVS 32**	**Vectis HX NVS 64**
Number of digital IP cameras	8	16	32	64
Megapixel support	Yes	Yes	Yes	Yes
File format	H.264	H.264	H.264	H.264
Operating system	Operating system: Microsoft® Windows® 7 x86 (32 / 64 bit), Microsoft® Windows® 8 x86(32/64 bit), Microsoft® Windows® Server 2003/2008 CPU: Intel i7 with > 2.6 GHz or faster RAM: 4GB or more VGA: ATI Radeon TM HD2400 or NVIDIA GeForce FX5500, (ATI recommended), (1024x768 till 1920x1080, colour depth 24bpp or higher) Hard disk drive: 50 GB or more free space for recordings, recommended partition size = 500 GB or 1 TB LAN: Gigabit Ethernet or faster			

	SISTORE MX 3G	
	Hybrid	IP
		
Model number	**MX1608, MX1616, MX3232 HVR**	**MX3200 IPVR**
Video inputs (analogue)	16	32
Maximum number of IP cameras	16	32
Monitor outputs	4 BNC	None
Audio inputs / outputs	16 inputs / 4 outputs	16 inputs / 4 outputs
Resolution in view mode	2048 x 1536	2048 x 1536
Hard disk size (standard)	1 TB (MX1608) 4 TB (MX1616,3232)	4 TB
Maximum internal HDD capacity	10 TB (1x1 TB and 3x3 TB)	10 TB (1x1 TB and 3x3 TB)
File format	MJPEG	MJPEG
Resolution (analogue)	CIF / 2CIF / 4CIF	None (IP only)
Resolution (IP)	Max 5MP	Max 5MP
Maximum recording speed (analogue)	400ips@4CIF	not available (IP only)
Maximum recording speed (IP)	800ips@VGA	800ips@VGA
Alarm inputs / outputs	16 / 4	16 / 4
Outputs	4	4
PTZ / Dome control	Yes	Yes
Password protection	Yes	Yes
Integrated DVD burner	No	No
Power supply	110-240 VAC max 150W	110 – 240 V (± 10 %), 50/60 Hz
Dimensions (W x H x D)	430 x 87 x 440 mm	430 x 87 x 440 mm
Integrated with SiPass Entro	Yes	Yes
Integrated with SiPass integrated	Yes	Yes

	SISTORE MX		
			
Model number	**NVS 4 / 9**	**NVS 16 / 32**	**NVS 64**
Number of IP cameras	4 / 9	16 / 32	64
Megapixel support	Yes	Yes	Yes
Integrated with SiPass Entro	Yes	Yes	Yes
Integrated with SiPass integrated	Yes	Yes	Yes
PC requirements	Windows 7 (32/64 Bit) or Windows Vista or Windows XP SP3, Intel Dual Core or higher (recommended is i5 / i7 Intel CPU with 2,6 GHz or higher), 4 GB RAM or more, 1 TB hard drive or more		

SISTORE MX DVRs

SISTORE MX is a flexible system for surveillance and digital storage of images from up to 64 cameras and come in either hybrid or full IP version. It is a good choice for all types of buildings, including train stations, shopping centres, factories and banks. SISTORE MX is also well suited for integration with other security systems. Integrated motion detection makes it possible to use SISTORE MX both indoors and outdoors.

SISTORE MX Software

SISTORE MX NVS is an open software program for up to 32 IP cameras. It works together with most of the leading brands of IP cameras on the market. SISTORE MX NVS is available for 4, 9, 16, 32 or 64 cameras.

Vanderbilt Analogue Surveillance systems

Optimally adjusted to prevailing light conditions Vanderbilt analogue cameras can deliver clear, crisp images. Vanderbilt has met this challenge at the highest level and created a range of cameras to cover all customers needs.

Why choose Vanderbilt Analogue Cameras?

Vanderbilt offers solutions for every application, for indoors and outdoors, from the cost-effective 1/3" CCD DSP version to the high performance colour cameras as well as specialised Wide Dynamic day/night cameras. Our "All-in-one" high-resolution day/night cameras offer an integrated auto focus zoom lens for up to 22x optical zoom.

The range includes models for both indoor and outdoor use. The outdoor models are particularly installer-friendly as they are preassembled (camera with integrated zoom lens in a housing with sunshield and wall mount bracket), saving installation time on site, and making the process as easy and flexible as possible.

Vanderbilt analogue cameras can be used for monitoring public areas, traffic, tunnels, casinos, train stations, airports and for many other applications. With their uniformly attractive design, the cameras offer a "sharper image" in any environment.

CNE Encoders

Our range of IP Video Encoders can effectively extend the transmission distance of any analogue camera by connecting it to an existing or new IP network, and is the ideal device for supporting the cost effective migration of analogue to IP video systems. Along with quadruple encoding for more flexibility, The ONVIF compatibility enables the encoder to be interoperable with many other 3rd party ONVIF IP-based security systems.

	CNE Encoders		
			
Model number	**CNE0410**	**CNE0810**	**CNE1610**
Video input	4-ch, BNC (1.0 Vp-p, 75 Ω)	8-ch, BNC (1.0 Vp-p, 75 Ω)	16-ch, BNC (1.0 Vp-p, 75 Ω)
Compression	H.264 / MPEG / MPEG2 / MJPEG		
Resolution	4CIF / 2CIF / CIF / QCIF		
Image frame rate	25 fps (P) / 30 fps(N)		
Audio feature	1x Audio-in for each channel 1x Audio Line In / Out		
Alarm	Yes; 4x Alarm In & 2x Alarm Out	Yes; 8x Alarm In & 4x Alarm Out	Yes; 16x Alarm In & 4x Alarm Out
Motion detection	Yes		
Power consumption	< 7W	< 10W	< 22W
Dimensions (W ×D × H)	114 × 48 × 128 mm	315 × 45 × 200 mm	440 × 45 × 274 mm
Weight	< 1 Kg	< 2 Kg	< 4 Kg

Analogue Cameras

	Analogue Box Cameras	
		
Model number	**CCWS1355-LP**	**CCWS1355-MP**
Image sensor	1/3" SONY 960H Exview HAD CCD-Sensor	1/3" SONY 960H Exview HAD CCD-Sensor
Horizontal resolution	max. 700 TVL	max. 700 TVL
Minimum illumination	Colour:0.1 lux, B/W: 0.08 lux (F1.2, 50 IRE)	Colour: 0.1 lux, B/W: 0.08 lux (F1.2, 50 IRE)
Signal/noise ratio	>52 dB (48 dB default setting)	>52 dB (48 dB default setting)
Pixels	976 (H) × 582 (V) Total pixels: 1020 (H) × 596 (V)	976 (H) × 582 (V) Total pixels: 1020 (H) × 596 (V)
Power requirements	12 VDC / 24 VAC, max. 4 W	90 to 260 VAC +/- 10%, 5 W
Operating temperature	-10°C ~ 50°C	-10°C ~ 50°C
Back light compensation (BLC)	Off / BLC / HLC (High Light compensation) (selectable)	Off / BLC / HLC (High Light compensation) (selectable)
Dimensions (W x H x D)	63 x 53 x 129 mm	63 x 53 x 129 mm
Weight	0.325 kg	0.510 kg

Analogue Domes and Cameras

CCD-chip technology used in Vanderbilt analogue cameras makes it possible to provide high resolution and sharp colour images provided that the light conditions are good.

All of Vanderbilt day/night cameras build on the latest CCD chip technology and deliver clear images around the clock. To take full advantage of the da/night technology we recommend the use of some form of infrared (IR) lighting that switches on automatically at the same time as the camera switches over to night mode. The integrated IR filter should also be disabled at this moment.

	Bullet and all in one cameras	
		
Model number	**CCPS1317-LPOIR**	**CCAW1427-LPI**
Image sensor	SONY ICX 673AKA 1/3" Exview HAD CCD II (960H)	1/4" SONY 960H SUPER HAD CCD II
Horizontal resolution	> 650 TVL	700 TVL
Minimum illumination	Without IR F1.4 @ 50 IRE, 0.2 lux / With IR, 0 lux (IR on)	Colour: 0.1 lux, 0.01 lux B/W
Signal / Noise ratio	48 dB (default) > 52 dB by parameter adjustment	50 dB (AGC Off)
Wide dynamic	Yes	On/Off/Level (52 dB)
Zoom	3.6x	352x (22x optical and 16x digital)
Focal length	3.3 – 12 mm	3.9 – 85.8 mm
Protection rating	IP66	Indoor use only
Power requirements	12 VDC / 24 VAC ± 10%	12 VDC / 24 VAC
Operating temperature	-10 to +50°C	-10 to +50°C
Back light compensation (BLC)	Off / BLC / HLC (High Light Compensation) (selectable)	Auto / Manual (Area, Level) / Off
Dimension (Ø x H) or (L x W x H)	83 x 205.5 mm	72 x 66 x 121 mm
Angle of view	Wide: 89.8° (H), 63.6° (V) Tele: 23.9° (H), 17.9° (V)	Horizontal: 49.5° (wide-angle) – 2.6° (tele)
Weight	0.68 kg	0.4 kg

The dome range includes different models for discreet surveillance of both indoor and outdoor environments. Choose between colour monofocal domes, colour varifocal domes, or day/night varifocal domes. These camera types are ideal for surveillance in shops, restaurants and hotels, for example. A stylish one-channel video server that transforms an analogue camera to an IP camera is available as an accessory.

	Analogue Dome Cameras				
					
Model number	**CFVS1327-LP**	**CCDA1455-DN28**	**CCDA1455-DN36**	**CV-VS1327-LP**	**CVVS1317-LPOIR**
Image sensor	1/3-inch EXVIEW HAD CCD || 976 (H) x 582 (V)	1/4" Ex-View CCD	1/4" Ex-View CCD	Sony ICX 673AKA 1/3" Exview HAD CCD II	SONY ICX 673AKA 1/3" Exview HAD CCD II
Horizontal resolution	650 TVL	530 TVL	530 TVL	650 TVL	> 650 TVL
Minimum illumination	Colour: 0.53 Lux, / 0.43 Lux (mono) @ 50 IRE	Colour: 1.0 Lux (F1.6; 1/50 s) Black / White: 0.01 Lux (F1.4; 1/3 s)	Colour: 1.4 Lux (F1.6; 1/50 s) Black / White: 0.01 Lux (F1.4; 1/3 s)	Colour: 0.29 Lux / 0.21 Lux (mono) with clear bubble 0.53 Lux / Mono: 0.43 Lux with tinted bubble	Without IR F1.2 @ 50 IRE, 0.1 lux With IR, 0 lux (IR on)
Signal / Noise ratio	>50 dB	>50 dB	>50 dB	>50 dB	48 dB (default) >52 dB by parameter adjustment
Zoom	n/a	336 x (28 x optical and 12 x digital)	432 x (36x optical and 12x digital)	n/a	n/a
Focal length	3.7 - 12 mm	3.5 – 98.0 mm	3.4 – 122.4 mm	3.7 - 12 mm	2.8 - 10.5 mm
Pixels	976 (H) x 582 (V) Total pixels: 1020 (H) x 596 (V)	752 (H) x 582 (V)	752 (H) x 582 (V)	976 (H) x 582 (V) Total pixels: 1020 (H) x 596 (V)	976 (H) x 582 (V) Total pixels: 1020 (H) x 596 (V)
Privacy zones	None	8	8	None	8
Presets	n/a	64	64	n/a	n/a
Power consumption	2.5 W	20 VA	20 VA	2.5 W	< 5 W
Power requirements	2.5 W	24 VAC	24 VAC	12 VDC / 24 VAC	12 VDC / 24 VAC ± 10%
Operating temperature	-10°C to +50°C	0 - 50 °C	0 - 50 °C	0 - 50°C	-10°C to +50°C
Protection rating	n/a	n/a	n/a	IP66	IP66
Dimension (Ø x H)	112 x 97.5 mm	134 x 219.9 mm	134 x 219.9 mm	138 x 112 mm	135 x 108.8 mm
Back light compensation (BLC)	ON or OFF (software allows 6 zones)	Yes	Yes	ON or OFF (software allows 6 zones)	Off / BLC / HLC (High Light Compensation) (selectable)
Weight	0.3 kg	1.85 kg	1.85 kg	1.7 kg	0.68 kg

Varifocal Lenses

	Varifocal Lenses		
			
Model number	**CLVD1325/5-50**	**CLVD1316/3-8**	**CLVD1318/2.8-11**
Focal length	5 – 50 mm	3 - 8 mm	2.8 – 11 mm
Video Sensor Size (recommanded for)	1/3"	1/3"	1/3"
Mounting	CS	CS	CS
Focus type	Manually adjustable with lock	Manually adjustable with lock	Manually adjustable with lock
Aperture range	F1.4 – F360	F1.0 – F360	F1.4 – F360
Horizontal angle of view	5.6° – 53.6°	35.7° – 92.5°	26.2° – 97.4°
Aspherical lens	Yes		
Iris	Direct Drive (DC) Auto-Iris		
Minimum object distance	0.3 m	0.2 m	0.3 m
"IR corrected (for day/night cameras)	No	Yes	Yes
Dimensions - max length	63 mm	48 mm	63 mm
Operating temperature	-20 – +60 °C		
Weight	0.084 kg	0.045 kg	0.079 kg

Vanderbilt Varifocal Lenses

Vanderbilt's line of Varifocal lenses feature fast maximum apertures, high magnification ratios, compactness and uncompromised optical quality. Through the beneficial employment of aspherical elements (in certain models), our lenses minimise optical aberrations and ensure high optical quality.

Our optimum IR correction compensates for focus shift that occurs when the illumination changes from visible to infrared light, making Vanderbilt lenses suitable for day/night cameras. Adjustable screw locks ensure focal-length and focus adjustments are easy to set up and secure.

			
Model number	**CLVD1318/10-40**	**CLVD1218/4-12**	**CLVD1218/10-40**
Focal length	10 – 40 mm	4 – 12 mm	10 – 40 mm
Video Sensor Size (recommanded for)	1/3"	1/2"	1/2"
Mounting	CS	C	C
Focus type	Manually adjustable with lock	Manually adjustable with lock	Manually adjustable with lock
Aperture range	F1.4 – F360	F1.2 – F360	F1.4 – F360
Horizontal angle of view	7.0° – 27.5°	31.2° – 93.7°	9.3° – 37.5°
Aspherical lens	Yes		
Iris	Direct Drive (DC) Auto-Iris		
Minimum object distance	0.5 m	0.3 m	0.5 m
"IR corrected (for day/night cameras)	Yes	Yes	Yes
Dimensions - max length	71 mm	58 mm	66 mm
Operating temperature	-20 – +60 °C		
Weight	0.089 kg	0.068 kg	0.087 kg

Analogue Recording Devices

Vectis AX

Gathering all the advantages of digital video surveillance in a single compact unit, Vectis AX can record up to 16 cameras anywhere, for instance in small shops, supermarkets, museums, etc.

Quick and easy to install, Vectis AX is also paticularly simple to operate. In addition, it provides flexible control, efficient H.264 compression and powerful search functions - that's more storage, better images, easier access.

	Vectis AX Analogue Recording Devices		
			
Model number	**AX4**	**AX8**	**AX16**
Signal Format	PAL or NTSC (auto detection, no mixture of signal format by separate cameras is allowed)	PAL or NTSC (auto detection, no mixture of signal format by separate cameras is allowed)	PAL or NTSC (auto detection, no mixture of signal format by separate cameras is allowed)
Video inputs (with looping)	4	8	16
Monitor outputs	1 HDMI / VGA + 1 SPOT	1 HDMI / VGA + 1 SPOT	1 HDMI / VGA + 1 SPOT
Audio inputs / outputs	4 / 1	4 / 1	4 / 1
Resolution in view mode	1920 x 1080 or less	1920 x 1080 or less	1920 x 1080 or less
Hard disk size (standard)	1 x 1 TB	1 x 1 TB	1 x 1 TB
Recording Performance Real-Time	up to 100 ips @D1 (PAL), up to 120 ips @D1 (NTSC)	up to 200 ips @D1 (PAL), up to 240 ips @D1 (NTSC)	up to 400 ips @D1 (PAL), up to 480 ips @D1 (NTSC)
Number of maximum internal hard disk drives	3	3	3
Maximum hard disk size	7 TB	7 TB	7 TB
Integrated DVD burner	Yes	Yes	Yes
External storage interface	eSATA and USB	eSATA and USB	eSATA and USB
Supported external storage device	Vectis external Storage Tank, max. 12 TB	Vectis external Storage Tank, max. 12 TB	Vectis external Storage Tank, max. 12 TB
Compression	H.264	H.264	H.264
Resolution	CIF / 2CIF / 4CIF / D1	CIF / 2CIF / 4CIF / D1	CIF / 2CIF / 4CIF / D1
Highest resolution feature	960H support	960H support	960H support
Maximum recording speed	100ips	200ips	400ips
Alarm inputs / outputs	4 / 2	8 / 2	16 / 2
PTZ / Dome control	Yes	Yes	Yes
Password protection	64 groups / 256 users per group	64 groups / 256 users per group	64 groups / 256 users per group
Power supply	100-240 VAC (max. 75W)	100-240 VAC (max. 75W)	100-240 VAC (max. 75W)
Dimensions (W x H x D)	430 x 88 x 405 mm	430 x 88 x 405 mm	430 x 88 x 405 mm
Integrated with SiPass Entro / SiPass integrated	No / No	No / No	No / No
Operating system	Linux Embedded	Linux Embedded	Linux Embedded

Monitors

Vanderbilt Monitors

Vanderbilt high-resolution TFT monitors have a significantly lower power consumption and are specifically designed for CCTV applications. These monitors are ideally suited for use with digital video recorders, PC systems or direct connection to analogue cameras.

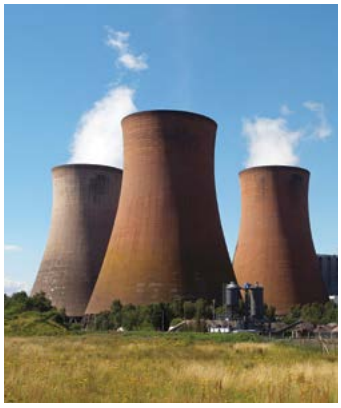
These slimmer monitors are suitable for around the clock monitoring and their very high contrast levels and brightness combined with a large viewing angle result in a clear and comfortable viewing.

These monitors also have two analogue CVBS video inputs (BNC) with loop-through outputs and support analog video-resolution up to 700 TVL based on latest 960H Technology. 17″ and 19″ models are equipped with an anti-glare plastic front screen that makes the design more robust against dust and shock.

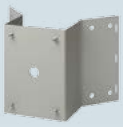
The monitors are further equipped with an audio input and include integrated loudspeakers.

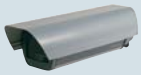
	Monitors			
				
Model number	**CMTC1743**	**CMTC1943**	**CMTC2315**	**CMTC3225 / 4225**
Resolution	1280 x 1024 pixels (SXGA)	1280 x 1024 pixels (SXGA)	1920 x 1080	1920 x 1080 (1080p)
Contrast ratio	1000:1	1000:1	1000:1	3000:1
Brightness	250 cd/m2	250 cd/m²	250 cd/m2	350 cd/m2
Angle of view	170° / 160°	170° / 160°	160° / 160°	178° / 178°
Video standard	NTSC / PAL (Auto-Sensing)			
Audio inputs	1 PC stereo audio Input	1 PC stereo audio Input	1x Audio input (Cinch, R+L) for AV1, AV2 1x PC Stereo Audio	1x Audio input (Cinch, R+L) for AV2 1x Audio input (R+L) for AV1 & S-VIDEO 1x Audio input (R+L) for Component Video 1x PC Stereo Audio
Loudspeakers	Built in speakers: 2x1 W (Stereo)	Built in speakers: 2x1 W (Stereo)	Built in speakers: 2x1 W (Stereo)	2x 2W (Stereo)
Video inputs	VGA and HDMI 2x BNC (CVBS 1Vp-p, 75ohms terminated)	VGA and HDMI 2x BNC (CVBS 1Vp-p, 75ohms terminated)	VGA, DVI-D and HDMI 2x BNC (CVBS 1Vp-p, 75ohms terminated)	1x VGA, 1x DVI-D and 2x HDMI 2x BNC (CVBS 1Vp-p, 75ohms terminated) with outputs 1x S-VIDEO, 1x Component (Y/Pb/Pr)
Power requirement	100~240 VAC, 50/60 Hz (power pack) 12 V DC, 2.4 A (monitor) Power consumption: 25 W	100~240 VAC, 50/60 Hz (power pack) 12 V DC, 2.5 A (monitor)	100~240 VAC, 50/60 Hz (power pack) 12 V DC, 2.3 A (monitor)	100~240 VAC, 50/60 Hz
Power consumption	25 W	27 W	28 W	55 W / 67 W
Ambient temperature, operating	0 ~ 40 °C	0 ~ 40 °C	0 ~ 40 °C	0 ~ 40 °C
Ambient temperature, storage	-10 ~ 60 °C	-10 ~ 60 °C	-20 ~ +60 °C	-20 ~ +60 °C
Material	Plastic	Plastic	Plastic	AL, EGI
Dimensions (W x H x D)	420 x 429.7 x 190 mm (with base) 420 x 359.5 x 54.5 mm (without base)	371.9 x 372.4 x 190 mm (with base) 371.9 x 324.3 x 53.7 (without base)	548 x 410 x 182 mm (with base) 548 x 330 x 55 mm (without base)	32″: 754 x 486 x 180 mm (with base) 754 x 456 x 67 mm (without base) 42″: 966 x 611 x 180 mm (with base) 966 x 581 x 67 mm (without base)
Weight	4.05 kg	4.59 kg	4.4 kg	13 kg / 21 kg
Mounting	VESA 100	VESA 100	VESA 100	32″: VESA 200 42″: 600 x 100 x 100 mm

Hardware - Camera accessories



	Speed Dome Accessories			
				
Model	**CCDA1425-SM**	**CCDA1425-FM**	**CCDA1425-VRH**	**CCDA1425-WPH**
Product	Ceiling mount indoor	Ceiling flush mount indoor	Weatherproof / vandal resistant housing	Weatherproof housing
Power requirements			24 VAC	24 VAC
Power consumption			26 VA	26 VA
Dimensions (Ø x H)	225 x 228 mm	250 x 232 mm	240 x 345 mm	240 x 335 mm
Weight	1.2 kg	1.4 kg	4 kg	4 kg
Mounting	Ceiling	Ceiling		

	Speed Dome Accessories				
					
Model	**CCDA1425-PMA**	**CCDA1425-CMA**	**CCDA1425-PM**	**CCDA1425-WMJ**	**CCDA1425-WM**
Product	Pole mount adapter	Corner mount adapter	Pendant mount	Wall mount with junction box	Outdoor wall mount

	Housings			
				
Model	**CHSM2510**	**CHSL2610**	**CHSL4010**	**CHSL4011**
Voltage	110VAC / 230VAC	110VAC / 230VAC	110VAC / 230VAC	12-24 VAC
Power consumption (Heater)	40 W	40 W	25W	25W
IP rating	IP66	IP66	IP66	IP66
Integrated heating	Yes	Yes	Yes	Yes
Max. camera dimensions (L x W x H)	77 x 67 x 250 mm	90 x 85 x 260 mm	125 x 100 x 400 mm	125 x 100 x 400 mm
External dimensions (L x W x H)	114 x 115 x 427 mm	144 x 141 x 470 mm	155 x 143 x 627 mm	155 x 143 x 627 mm
				
Model	**CHSM2210**	**CHSM2210-B**	**CHSM2211**	**CHSM2211-B**
Voltage	110VAC / 230VAC	110VAC / 230VAC	12-24 VAC	12-24 VAC
Power consumption (Heater)	25W	25W	25W	25W
IP rating	IP66	IP66	IP66	IP66
Integrated heating	Yes	Yes	Yes	Yes
Max. camera dimensions (L x W x H)	85 x 80 x 225 mm	85 x 80 x 225 mm	85 x 80 x 225 mm	85 x 80 x 225 mm
External dimensions (L x W x H)	133 x 125 x 454 mm	133 x 125 x 627 mm	133 x 125 x 454 mm	133 x 125 x 627 mm

Hardware - Atex Certified Products

	Phoenix Flameproof Housings	
		
Model number	**FH07B**	**FH07C**
Approvals	Ex II2GD Ex d IIB T6 Gb Ex tb IIIC T85˚C Db	Ex II2GD Ex d IIC T6 Gb Ex tb IIIC T85˚C Db
Colour	Body: Polyester powdercoat RAL1021 (Yellow), Endplates: Clear anodised	Body: Polyester powdercoat RAL1021 (Yellow), Endplates: Clear anodised
Sunshield	White polyester powdercoat	White polyester powdercoat
Material	Aluminium housing body, end caps and sunshield	Aluminium housing body, end caps and sunshield
Demister	7W nominal, 25W max. PTC resistor heating element	7W nominal, 25W max. PTC resistor heating element
Environmental protection	IP67 EN60529/IEC 529	IP67 EN60529/IEC 529
Electrical	230 VAC 50Hz	230 VAC 50Hz
Dimensions (L x W x H)	94 x 114 x 420 mm (internal) / 186 x 210 x675 mm (external)	94 x 114 x 420 mm (internal) / 186 x 210 x 545 mm (external)

	Phoenix Flameproof Pan and Tilt Units	
		
Model number	**FP50B**	**FPHC-40**
Approvals	Ex II2GD Ex d IIB T6 Gb Ex tb IIIC T85˚C Db	Ex II2GD Ex d IIC T6 Gb Ex tb IIIC T85˚C Db
Colour	Body: Polyester powdercoat RAL1021 (Yellow), Endplates: Clear Anodised	
Sunshield	White polyester powdercoat	
Material	Aluminium housing body, end caps and sunshield	
Demister	7W nominal, 25W max. PTC resistor heating element	
Pan speed	4.5°/s (50Hz), 5.4°/s (60Hz), Torque 45 Nm	
Tilt speed	4.5°/s (50Hz), 5.4°/s (60Hz), Torque 45 Nm	
Rotation	Max. 346° Pan, ±176° Tilt (sidemount)	Pan: 346° Tilt: ±172° (60 Hz)
Shock	30G Max. (packed product)	30G Max. (packed product)
Backlash	±0.15° (max.)	±0.15° (max.)
Maximum load	40 Kg (sidemount)	
Environmental protection	IP67 EN60529/IEC 529	
Electrical	230 VAC 50Hz	
Dimensions (W x H x D)	167 x 291 x 266 mm excluding tilt platform (167 x 291 x 471 mm including platform)	P/T: 167 x 291 x 266 mm excluding platform (167 x 291 x 471 mm including platform) Housing: 94 x 114 x 420 mm (int) / 186 x 209 x 675 mm (ext)

Certification codes		
Ex II 2 G D	Ex d IIB T6 Gb Ex tb IIIC T85°C Db	Ex d IIC T6 Gb Ex tb IIIC T85°C Db
ATEX Specific Marking	EEx: for use in potentially explosive environments	
Group II: non mining applications	d: flameproof, pressure-resistant enclosure according	
Equipment Category 2 – giving a level of protection to equipment intended to be used in areas in which explosive atmospheres caused by gases, vapours, mists or air/dust mixtures are likely to be present. This protection is afforded under both normal and fault conditions.	IIB: suitable for gas groups IIB & IIA eg ethylene and propane	IIC: suitable for gas groups IIC,IIB & IIAeg hydrogen, acetylene, ethylene & propane
	Suitable for use in Zones 1 and 2 (Intermittent hazards which are present for up to 1,000 hours per annum)	
G D: for use in gas/vapour/ mist and dust environments	T85˚C Temperature class. Based on an ambient temperature of 40˚C, maximum surface temperature will not exceed 85˚C	

The Phoenix Range

Vanderbilt is a world leader in the manufacture of flameproof housings and Pan & Tilt heads. These are typically used in petrochemical, industrial, aerospace, or offshore industries, on sites where there is a risk of explosion because volatile gases, vapours, mists or dusts are present.

The Phoenix™ range is recognised and chosen internationally by customers who require the best engineered solution for security in hazardous areas.

Phoenix Explosion Proof Housings

"Phoenix™ Explosion-Proof" equipment is ATEX-certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The housing is designed to prevent explosion by containing any heat, sparks, or flames generated. This prevents ignition of potentially explosive atmospheres or materials outside the equipment. The housing is ATEX-certified for use in IIA, IIB and IIC gas environments (includes ethylene and propane). The housing is supplied complete with heater & sun shield. Additionally it can be factory-fitted with a wiper.

Vanderbilt can deliver this housing as a factory pre-built version with Vanderbilt or customer supplied camera and lens.

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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