Middle East
ViconNet Solution Guide
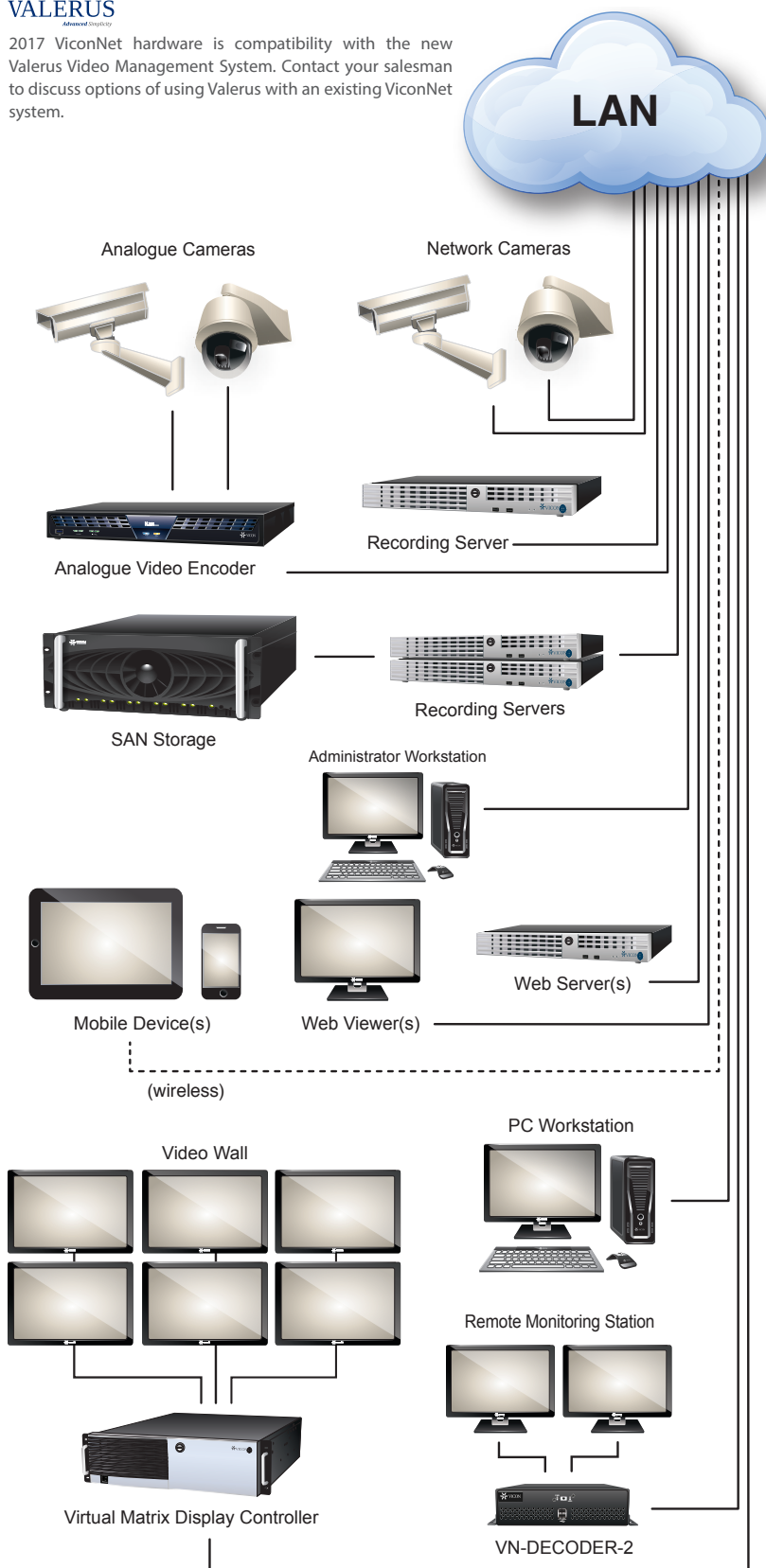
Advanced *Simplicity*

Open-architecture, feature-rich video management software (VMS) solutions that delivers complete access to live and recorded security video across your network.

VICON
Simple Solutions for a Complex World

ViconNet Video Management System

VICON
VALERUS
Advanced Simplicity

2017 ViconNet hardware is compatibility with the new Valerus Video Management System. Contact your salesman to discuss options of using Valerus with an existing ViconNet system.

LAN

Analogue Cameras

Network Cameras

Analogue Video Encoder

Recording Server

SAN Storage

Recording Servers

Administrator Workstation

Mobile Device(s)

Web Viewer(s)

Web Server(s)

(wireless)

PC Workstation

Video Wall

Remote Monitoring Station

Virtual Matrix Display Controller

VN-DECODER-2

Administrator Workstation/Nucleus
ViconNet employs a distributed architecture that is linked together through an administrator workstaion designated as the "Nucleus". The Nucleus maintains a master copy of all critical settings in the system that enables the entire system to work together virtually as a single entity. Each server and workstation maintains a current copy of the Nucleus configuration settings, so that in the event there is a failure, the system will continue to operate without disruption.

The workstation application provides advanced functionality not available through the web or mobile interfaces.

Recording Servers
ViconNet open-platform servers can be scaled to meet the customer requirements. Multiple servers can be virtually linked to build enterprise scale systems. These feature rich recording devices are designed for long term reliability and ease of maintenance. Fully redundant hardware configurations are availabe to minimize any risk of system failure.

SAN Storage
Vicon offers a variety of external storage options for systems with higher recording requirements. It is recommended to connect 4 recording server to a single Vicon SAN device.

Video Encoders
Encoders convert analogue camera inputs into streamed IP. These encoders support 1080P analogue.

Web Servers
The Web/Mobile Server is designed to allow authorised security managers and operators to select and control video displayed from a browser-based interface. The server acts as a gateway to the ViconNet network video system without any requirement to install and maintain client-based software. A dedicated webserver is recommended for systems with more than 10 concurrent remote viewers.

Mobile Device Clients
The mobile device solution (Apple iOS and Andriod OS versions) interfaces through the Vicon Web Server. As the system grows, and the need for more devices increases, Servers can be added to the system to handle the load. To save on bandwidth and display resources, the application processes the video image into an optimal size for the device.

Video Walls
The Virtual Matrix Display Controller (VMDC) provides a scalable matrix control solution. The VMDC is comprised of both a matrix command/control center software interface and a hardware decoding component that enables the remote network video streams to be displayed on multiple monitors in multiple locations.

Integration with Third Party Solutions
ViconNet integrates with many popular third party applications through an SDK or web client application. The platform also includes a powerful XML engine that can incorporate data from any network data source. Third party applications have access to the entire ViconNet system thru a single IP address.

Recording Server Failover
ViconNet can detect if any of the active recording servers have failed and will initiate recordings of the affected cameras to a designated spare recording server. This is achieved under 30 seconds (typically less than 10 seconds) and live viewing of all cameras are not affected during this period. The ViconNet system will manage the storage of the entire system and not require the operator of the system to manually look in different storage locations for the video.

Recording Hardware

The ViconNet recording server enables you to simultaneously capture up to 120 real-time utilizing RAID storage. There different versions based on the system requirements (including MOI specified redundancy).

1U Recording Server   3U Recording Server   2U Shadow RAID Server

Recording Servers

Type	Drive Bays	SAN Ready?	Nr Cameras *	Redundancy**	16 Cameras	35 Cameras	Unlimited
Desktop	2		Up to 70		VZN-16-V8	VZN-35-V8	VPK-NVR-V8
1U Rackmount	2	Yes	Up to 100				VPK-SANV8-RK
3U Rackmount	4	Yes	Up to 70		VZN-16-V8-RK	VZN-35-V8-RK	VPK-NVR-V8-RK
2/4U RAID Rackmount	8/24		Up to 100		VZN16-xTBXV8-5	VZN35-xTBXV8-5	VPK-xTBXV8-5
2/4U RAID+	8/24		Up to 100	Yes	VZN16-SHADOW8P	VZN35-SHADOW24P	VPK-SHADOW24P
2U SAN+	8	Yes	Up to 100	Yes	VZN16-SANV8-PLUS	VZN35-SANV8-PLUS	VPK-SANV8-PLUS

* Based on 1080P resolution at 15fps ** Dual CPU. Dual power supply. Dual GBE LAN Port. Dual SCSI SAN Port (SAN model). Dual Windows Operating System Hard Drives.

Note: See Price List for configurations with different storage capacities.

SAN Storage

Vicon® KOL-iRAID iSCSI RAID Array devices provide a high-density storage solution that can be used for primary and/or backup data storage. The KOL-iRAID is offered in 12, 16, 24 and 48-bay systems. Redundant power supplies and enterprise class hard drives ensure reliability.

Drive Bays	Size	Model (Redundant SCSI)	Model (Standard)
12	2U	KOL-iRAID12D	
16	2U		KOL-iRAID16
24	3U	KOL-iRAID24D	KOL-iRAID24
48	4U	KOL-iRAID48D	

Accessories

Type	Desktop Model	Rackmount Model	Description
Workstation	VWS-PCV8	VWS-PCV8-RK	PC used for workstation operator
Admin Workstation (Nucleus)	VNUC-PCV8	VNUC-PCV8-RK	PC used for Administrator (Nucleus)
Web Server	VN-RMT-PCV8	VN-RMT-PCV8-RK	Web server to enhance remote connection performance
Keyboard	VN-KEYPAD		USB keypad for use with workstations
Decoder (2 monitor)	VN-DECODER-2		2 monitor decoder for use with Virtual Matrix
Virtual Matrix 2 monitor	VMDC-2V8-A	VMDC-2V8-A-RK	Virtual Matrix Display Controller (2 Monitor Output)
Virtual Matrix 4 Monitor	VMDC-4V8-A	VMDC-4V8-A-RK	Virtual Matrix Display Controller (4 Monitor Output)
Virtual Matrix 6 Monitor	VMDC-6V8-A	VMDC-6V8-A-RK	Virtual Matrix Display Controller (6 Monitor Output)
22" Monitor	VM-722N-1		22" 16:9 1080P Monitor
32" Monitor	VM-632LED		32" 1366 x 768 Monitor
42" Monitor	VM-642LED		42" 16:9 1080P Monitor
Alarm Relay	ADAM-6050		I/O network device; 12 alarm inputs/6 outputs
Third Party Camera License	VN-CAM-LIC		Connection license for non-Vicon cameras (1 camera)
Vicon Software Only	See Price List		All ViconNet software is available for installation on COTS hardware. See Price List for Details
Professional Services	See Price List		Vicon Technicians can configure the system or provide training. See Price List for Details.

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Recommended Cameras (See Camera brochure for more options)

The following table contains the most popular cameras. It also identifies cameras that meet Abu Dhabi MCC requirements which include the ability to record a stream at 25 fps and record the same HD stream at 15fps. (Reference: Abu Dhabi MCC Regulations).

Dome Camera

Model	Res	FPS	WDR	IR	Lens	Temp (C)	Vandal	Alarm	Recognition	Identification
V802D-W310MIR	1080	30	120dB	25m	2.8-12mm MFZ	-10 to 45		Yes	Yes	
V804D-W310MIR	4MP	30	120dB	25m	2.8-12mm MFZ	-10 to 45		Yes	Yes	
IQD61WV-B7	720	30	100dB		3-6mm	0 to 40	Yes	Yes	Yes	
IQD62WV-B7	1080	30	100dB		3-6mm	0 to 40	Yes	Yes	Yes	
V972D-N312IR	1080	30	72dB	30m	2.8-12mm	-20 to 60	Yes	Yes	Yes	
V9520D-312MIR	1080	30	72dB	30m	2.8-12mm MFZ	-10 to 50	Yes		Yes	
V942D-W312MIR-XS	1080	30	120dB	30m	2.7-12mm MFZ	-40 to 60	Yes	Yes	Yes	Yes
V944D-W312MIR	4MP	20	120dB	30m	2.7-12mm MFZ	-40 to 60	Yes	Yes	Yes	Yes
IQM61NE-B5	720	30	50dB		3-13mm	-30to 50	Yes	Yes	Yes	
IQM61WR-B5	720	20	100dB	20m	3-13mm	-30 to 50	Yes	Yes	Yes	
IQM62NE-B5	1080	30	50dB		3-13mm	-30 to 50	Yes	Yes	Yes	
IQM62WR-B5	1080	30	100dB	20m	3-13mm	-30 to 50	Yes	Yes	Yes	
V922D-W39MIR-ME	1080	30	120dB	25m	3-9mm MFZ	-20 to 60	Yes	Yes	Yes	Yes
V922D-W39IR-ME	1080	30	120dB	25m	3-9mm	-20 to 60	Yes	Yes	Yes	Yes
V932EZ-W312MIR	1080	60	120dB	25m	2.8-12mm MFZ	-20 to 60	Yes	Yes	Yes	Yes
V933EZ-N312MIR	3MP	30	72dB	25m	+ Pan/Tilt	-20 to 60	Yes	Yes	Yes	

Bullet Camera

Model	Res	FPS	WDR	IR	LENS	TEMP (C)	Vandal	ALARM	Recognition	Identification
V814B-312MIR	4MP	20	72dB	30m	2.8-12mm MFZ	-10 to 50	Yes		Yes	
V944B-W312MIR	4MP	20	120dB	30m	3-10.5mm MFZ	-40 to 60	Yes	Yes	Yes	Yes
V942B-W310MIR-XS	1080	30	120dB	30m	3-10.5mm MFZ	-40 to 60	Yes	Yes	Yes	Yes
V922B-W551MIR-A	1080	60	120dB	25m	5-51mm MFZ	-30 to 60	Yes	Yes	Yes	Yes
V922B-W39MIR-A	1080	60	120dB	25m	3-9mm MFZ	-30 to 60	Yes	Yes	Yes	Yes

Box Camera

Model	Res	FPS	WDR	IR	Lens	Temp (C)	Vandal	Alarm	Recognition	Identification
IQB92WI-NL	1080	30	100dB			0 to 40		Yes		
IQB92WI-A5	1080	30	100dB		2.8-12mm MFZ	0 to 40		Yes		
V922-D4129	1080	30	120dB		4-129mm MFZ	0 to 60		Yes		

PTZ Camera

Model	Res	FPS	WDR	IR	Lens	Temp (C)	Vandal	Alarm	Recognition	Identification
SN663V-B	1080	60	120dB		20x	-10 to 60	Yes	Yes		
SN663V-B-EX	1080	60	120dB		20x	-30 to 65	Yes	Yes		
SN680D-B-WNIR	1080	60	120dB	400m	30x	-30 to 65	Yes	Yes		
SN230W	1080	30	110dB		30x	-40 to 55	Yes	Yes		
SN230M	1080	30	110dB		30x	-40 to 55	Yes	Yes		
SN230P	1080	30	110dB		30x	-40 to 55	Yes	Yes		

Specialty Camera

Model	Res	FPS	WDR	IR	Lens	Temp (C)	Vandal	Alarm	Recognition	Identification
V-CELL-HD-A	1080	30	50dB	20m	2.6mm	0 to 60	Yes	Yes		
V9360-12	12MP	20	120dB	5m	180º	-10 to 50	Yes	Yes		
V9360W-12	12MP	20	120dB	5m	180º	-30 to 50	Yes	Yes		

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