



# I-ONYX IP CAMERAS



## A Powerful IP Camera with PoE

- Powered by ViconNet software
- Maximum video transmission rate of 30 fps (25 fps PAL) at 720 x 488 pixels (4 CIF) (864 x 586 PAL)
- Uses ViconNet MPEG-4 compression that optimizes file size and maximizes picture quality
- Power over Ethernet (PoE) eliminates the need for separate power supply
- Simultaneous transmission of multiple-channel video across the LAN and WAN to connected Kollector Elite Recorders and ViconNet NVR Workstations
- Remote configuration across the network
- Analog composite output for local setup and as a redundancy video source in case of network failure

**Corporate Headquarters**  
89 Arkay Drive  
Hauppauge, New York 11788  
631-952-CCTV (2288)  
800-645-9116  
Fax: 631-951-CCTV (2288)

**Vicon Europe Headquarters**  
Brunel Way  
Fareham, PO15 5TX  
United Kingdom  
+44 (0) 1489 566300  
Fax: +44 (0) 1489 566322

**Germany**  
vin-videoelectronic infosystems  
gmbh  
Lahnstrasse 1  
D-24539 Neumuenster  
Phone: +49 (0) 4321 8790  
Fax: +49 (0) 4321 879 97

**Far East Office**  
Unit 5, 17/F, Metropole Square  
2 On Yiu Street, Shatin  
New Territories  
Hong Kong  
(852) 2145-7118  
Fax: (852) 2145-7117

[www.vicon-cctv.com](http://www.vicon-cctv.com)

Vicon® introduces the I-ONYX™ cameras – three powerful IP video cameras for use with the Vicon-Net® Digital Video Management System. Choose between the I-ONYX super-high-resolution model VN-855, the I-ONYX day/night version VN-855DN or the I-ONYX Wide Dynamic Range model VN-855WDR. All three can deliver up to 30 fps of high-quality 4 CIF [720 x 488 (864 x 586 PAL)] video across the network.

The I-ONYX series delivers premium performance at every level, providing sharp color images with resolution up to 540 TV lines; accurate color rendition and a range capture resolution up to 4 CIF

[720 x 488 (864 x 586 PAL)]. As part of a ViconNet system, the cameras utilize an MD5 video authentication algorithm to verify data integrity. In addition, the IP cameras support museum search, motion detection, alarm reporting, macros and alarm configuration through the ViconNet software interface.

I-ONYX cameras are equipped with a 100 Mbps LAN interface board that allows them to directly plug in to a network switch on ViconNet NVRs. Cameras may be powered by either PoE or a 24 VAC, fully isolated power input that ensures stable images even when I-ONYX cameras are powered by a common power supply.

Model No.	Product Code	Description
VN-855V4/VN-855V4-C (Ver 4.0)	9149-44/9149-43	1/3 in. high resolution IP camera; NTSC/PAL
VN-855DNV4/VN-855DNV4-C (Ver 4.0)	9149-54/9149-53	1/3 in. high resolution day/night IP camera; NTSC/PAL
VN-855WDRV4/VN-855WDRV4-C (Ver 4.0)	9149-64/9149-63	1/3 in. IP camera, Wide Dynamic Range; NTSC/PAL



# Technical Specifications

## ELECTRICAL

Input Voltage:	24 VAC $\pm$ 15%, fully isolated, or PoE (802.3af compatible).
Current:	VN-855: 550 mA max. VN-855DN: 500 mA max. VN-855WDR: 600 mA max. Powered by PoE: 190 ma @ 48VDC.
Power Consumption:	VN-855: 10 W max. VN-855DN: 10 W max. VN-855WDR: 10 W max.
Vicon Power Supplies:	S24WPS-1, V2448-175PS, V248-600PS, V2416-600PS.

## VICONNET (IP)

Communication Hardware:	ViconNet Digital Video Management System.
LAN Interface:	100/10 Mbps, TCP/IP Unicast
Number of Channels:	1, over LAN connection.
Resolution:	4 levels, up to 4 CIF [480 horizontal TV lines maximum at 720 x 488 pixel pallet (864 x 586, PAL)].
Number of Simultaneous Video Streams:	Maximum of 10 viewing/recording streams of video per camera.
Alarm/Audio:	1 channel in.

## SOFTWARE

Network Setup:	Standard network protocol type using IP addressing scheme and separate PC application software.
Site Authorization:	Camera can be set up using remote recorder or workstation. Permissions can be assigned for macro create & edit, alarm setup, Authentication, Reports and System Status. Supports up to 20 Groups and 50 Users.
Macro Create & Edit:	System macros can be configured to use the camera's video. Within macros, alarms can be sent and remote macros run.
Alarm Setup:	Can be triggered on video motion detection and loss. The alarm can be sent to remote units.
Authentication:	Can be set to view the symbol A on displayed video.
Picture Quality and FPS Priority:	Can prioritize recorded picture quality and video fps.

## VIDEO CHARACTERISTICS

Image Device:	1/3-inch interline transfer CCD.
Synchronization In:	Internal.
Horizontal Resolution:	VN-855, VN-855DN: 540 TV lines. VN-855WDR: 480 TV lines.
Sensitivity:	VN-855: 0.09 fc (1.0 lux) at standard gain; 0.07 fc (0.7 lux) at high gain. VN-855DN: 0.0009 fc (0.01 lux) in night mode; 0.07 fc (0.7 lux) in day mode. VN-855WDR: 0.09 fc (1.0 lux) at standard gain; 0.07 fc (0.7 lux) at high gain.
Gain Control:	Automatic (AGC), ON/OFF.
Signal-to-Noise Ratio:	Better than 52 dB.
Backlight Compensation:	ON/OFF select.
Electronic Iris:	1/60 (1/50)-1/100,000, ALC (AI)/ELC (EE) select.
Lenses:	Accepts DC drive (CS-G) lenses; 4-pin molded connector.

## CONNECTORS

Power:	2-pin terminal.
Autoiris DC Lens:	4-pin.
Video Out:	BNC.
Alarm/Audio:	6-pin terminal.
Network:	RJ-45.

## MECHANICAL

Dimensions:	Height: 2.2 in. (60 mm). Width: 2.9 in. (74 mm). Length: 5.2 in. (130 mm).
Lens Mount:	C or CS mount.
Camera Mounting:	1/4-20 threaded hole, bottom and top.

## ENVIRONMENTAL

Operating Temperature:	32 to 122°F (0 to 50°C).
Operating Humidity:	Up to 85% relative, non-condensing.



Vicon, its logo and ViconNet are registered trademarks of Vicon Industries Inc. I-ONYX is a trademark of Vicon Industries Inc. Copyright© 2007 Vicon Industries Inc. All rights reserved.  
Vicon part number 8015-5103-02-00 Product specification subject to change without notice.