



Vision7G™ Specifications

Specifications may be improved at any time. See website for current version.

www.diamondquest.us

Omnicast Surveillance Software:

Note: Vision7G wireless cameras are pre-configured for 640x480, 8 frames per second (minimum fps). Vision7G can be wired to any network that has Mega-pixel, 30 fps, PTZ cameras/encoders, and use the higher resolutions and frame rates, etc. Separate camera licenses required, along with any Plug-in licenses for Video Analytics, License Plate Recognition, etc. Please refer to the Genetec website (www.genetec.com) for a list of supported cameras, PTZ protocols and Plug-ins, or contact Diamond Quest for additional information.

<p>Video</p> <ul style="list-style-type: none"> • MPEG-4 / H.264 / MPEG-2 / MJPEG / Wavelet compression • Bandwidth managed from 8 Kbits/s to 20 Mbits/s per camera • Up to 60 fps per camera • Resolution from 160x120 to multi-megapixels • IP and analog camera support <p>Transmission</p> <ul style="list-style-type: none"> • Video and audio over any IP network • IP multicast with minimal bandwidth use • Wireless connectivity over 802.11a/b/g or cellular • Remote access via DSL, cable, cellular, ISDN, T1 or T3 <p>Storage</p> <ul style="list-style-type: none"> • Distributed archiving with unlimited storage • Supported edge device recording • Archiving through standard storage technology • Multi-stream technology for independence of storage and live display settings • Intelligent search capabilities based on metadata, date/time, events, bookmarks and motion • Schedules derived from sunrise/sunset, metadata, time/date, event, motion 	<p>Integration</p> <ul style="list-style-type: none"> • Synergis IP access control solution • AutoVu LPR solution • Over 30 PTZ control protocols • Video analytics solution • Point of sale (POS) • Major third-party access control systems • Building automation • Heating, ventilating & air conditioning systems (HVAC) • CCTV matrix switches and keyboards • DVR <p>Audio</p> <ul style="list-style-type: none"> • Full-duplex IP intercom • Multiple audio protocols (G.711, G.723, GSM) <p>Display</p> <ul style="list-style-type: none"> • Up to 16 simultaneous live cameras displayed per digital monitor • Unlimited digital monitor support • Analog video wall support • Unlimited remote sites managed from one unified interface • Instant replay capability on any camera • Digital zoom for clear identification • Overlay PTZ control
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Radio:

Dual 802.11a and 802.11g Radios	Provides up to 108 Mbps of capacity in a single device for
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	and compatibility with older 802.11b clients.
Dual RP-TNC Antenna Connectors for Both 2.4-GHz and 5-GHz Radios	Antenna connectors support a variety of 2.4-GHz and 5-GHz antennas, providing range and coverage versatility.
Link-Role Flexibility	Autonomous access points can function as an access point or bridge, whether set up as a single-band or dual-band platform, allowing each radio to be individually configured as an access point repeater, root bridge, non-root bridge, or workgroup bridge, enabling a broad array of applications.
Unified IDS/IPS	This integrated software feature is part of the Self-Defending Network and is the industry's first integrated wired and wireless security solution. When a trusted client acts maliciously, the wired IDS detects the attack and sends shun requests to WLAN controllers, which will then disassociate the client device.
Management Frame Protection	This feature provides for the authentication of 802.11 management frames by the wireless network infrastructure. This allows the network to detect spoofed frames from access points or malicious users impersonating infrastructure access points. If an access point detects a malicious attack, an incident will be generated by the access points and reports will be gathered on the wireless LAN controller, WCS, or WLSE.
Security	Authentication Security Standards WPA WPA2 (802.11i) TKIP message integrity check (MIC) IEEE 802.11 WEP keys of 40 bits and 128 bits 802.1X EAP types: EAP-Flexible Authentication via Secure Tunneling (EAP-FAST) Protected EAP-Generic Token Card (PEAP-GTC) PEAP-Microsoft Challenge Authentication Protocol Version 2 (PEAP-MSCHAP) EAP-Transport Layer Security (EAP-TLS) EAP-Tunneled TLS (EAP-TTLS) EAP-Subscriber Identity Module (EAP-SIM) LEAP Encryption: AES-CCMP encryption (WPA2) TKIP (WPA) TKIP WPA TKIP IEEE 802.11 WEP keys of 40 bits and 128 bits

Antenna specifications available upon request.

Monitor:

<ul style="list-style-type: none"> • 1-DIN In-Dash, heavy duty construction • Spring loaded, automated mechanical flip-out design (Non-Motorized) • VGA Input x 1 & Video Input x 2 • NTSC / PAL Multi-System • 16x9 Aspect Ratio • High Resolution Display - up to 1600 x 1200 • Upgraded High-Brightness CCFL • Adjustable backlight level for night-time use • Pixelworks High Performance Image and Video Signal Processor • AISS - Advanced Image-Scaling and Shaping • Auto power-on upon signal detection • Automatic display adjustment • On Screen Display Control • 20-Pin heavy-duty connector 	<ul style="list-style-type: none"> • Anti Glare Coating • Supports 11V DC ~ 24V DC • Screen Size: Diagonal 7" (16:9) • Physical Resolution: 800 (H) x 480 (V) WVGA • Supported Resolution: 640 x 480 ~ 1600 x 1200 • Dot Resolution: 2400 x 480 = 1,152,000 (dots) • LCD Brightness: 500 cd/m² • Contrast Ratio: 400:1 • Operating Voltage Range: DC 11V ~ 24V, 1A • Power Supply: DC 12V • Power Consumption: <8W • Operating Temperature: 23°F ~ 158°F • Dimension: 1-DIN: 7" (W) x 2" (H) • Weight (lb): 1.28 • FCC, CE, E13 Certification • ROHS Compliant
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Keyboard:

- 2.4GHz RF technology with 8 channels
- Up to 10 meters operation range
- Ultra slim size design, Low power consumption
- Omni-directional cursor control
- Built-in joystick and 2 standard mouse buttons
- No Directional Limitation, USB interface
- Dimension: 316mm x 152mm x 21mm


Computer:

- Intel Core2 E7400, 2.8 GHz, 4 MB Cache
- Windows XP Pro
- 2.0 GB of RAM
- 500 GB HDD
- 5.25 Bay Speakers, Audio in/out, Volume Control wheel, Microphone RCA Video Out
- (2) USB Ports
- 10/100/1000 Ethernet Network Interface Card, RJ45 -for external networks

Cameras:

Vision7G can receive camera signaling within a clear line of sight radius of 1500 ft using the black antennas and 2500 ft using the white antennas. Additional external camera antennas (except Axis M1031-W) available to further increase range. Outdoor housings with heaters and defrosters available (excluding Axis M1031-W).

Manufacturer	Model(band)	Appearance	Features
Axis	M1031-W(11g) 6-8 fps 640x480		PIR motion detector (6m). White light, speaker, microphone. Audio detection. 1 lux
Axis	211W(11g,b) 8 fps 640x480		Progressive scan. 3-8mm. Microphone, line-in/out. Audio detection. .75 lux . 1 alarm input/1 output relay.
Sony	SNC-CS50(11g) 15fps 640x480		540 TVL. 2.9-8mm, Audio in, 2 alarm inputs/2 relay outputs. .4/.04 lux
Sony	P5(11b) 15fps 640x480		PTZ. 400 TVL. Progressive scan. Microphone, line-in, line-out, motion detector, 1 alarm input/1 relay output. 3.5 lux
Sony	RX570(11g) 15fps 640x480		PTZ. 530 TVL. 36x zoom, 1.4/0.15 lux, 16 presets, serial port, audio in/out, memory stick. 2 alarm inputs/2 relay outputs

Vivotek	7137(11g,b) 10fps 640x480 (4fps over cellular)		PTZ. 1.5 lux, 3GPP cell phone player, no audio support in Omnicast at this time.
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Note: Vision7G may use any wired IP cameras, POE cameras, analog cameras and encoders, etc that are supported by Genetec, by utilizing the RJ45 jack on the rear of Vision7G via CATV to a switch. See supported hardware list at www.genetec.com – additional camera licenses may be required.

Mechanical / Environmental:

Weight:	28.2 lbs / 12.8 kg
Height:	11.5 in / 29.21 cm
Width:	9 in / 22.86 cm
Depth:	14.125 in / 35.87 cm
Input Voltage	110V AC
Operating Temperature	32°F - 122° F / 0°C - 50°C
Certifications	FCC, UL, CE

Optional VGA Eyewear:



For use outside in bright sunlight.

• 64" Equivalent Image Size
• Features patented SolidOptex® technology - exclusively from Myyu - for high quality optics in a durable lightweight design.
• Full VGA quality delivers 640 X 480 resolution with our widest field of view and a big screen feeling.
• Features worldclass display technology for the highest pixel density and sharpest resolution for DVD like quality.
• Superb sound with noise reduction from included stereo earphones
• Compact and elegant design that's comfortable to wear.
• USB-rechargeable battery lasts up to 4 hours of viewing.
• USB charge cable included to charge from your laptop.
• Handheld pendant control for volume, contrast and brightness.

Eyewear may be used with Vision7G monitor stowed.