



IP Product Catalog

- 2009 Digital Surveillance Solution -



■ H.264 Hybrid DVR

■ Megapixel IP Camera

■ Application

■ System Diagram

About DynaColor

DynaColor specializes in video surveillance products and CRT/LCD AOI systems. Headquartered in Taipei since 1991, DynaColor has achieved continuous growth and market recognition.

Digital Surveillance Solution

DynaColor designs and manufactures digital surveillance products, including speed dome cameras, megapixel IP cameras, digital video recorders (DVRs), multiplexers, video servers, and keyboard controllers. These products are used in various places, including retail stores, government facilities, schools, city halls, airports, military sites, prisons, parks, streets, banks, shopping malls, stadiums, and a wide range of other medium and high security applications.

DynaColor delivers digital surveillance solutions for small and large applications, from the very simple surveillance task with only a few cameras for small stores and buildings, to large installations with complex networks and needs.

A Reputation of Quality

DynaColor has established an excellent reputation not only in digital surveillance products, but also in the LCD AOI system and industrial cameras. Quality is controlled during every phase of development, as DynaColor is ISO-9001 certified by DNV.

Technological advances and customer orientation are the keys to DynaColor's success in a rapidly changing market.

Through focused management and revenue-based incentive programs, DynaColor has quickly identified, executed, and excelled every planned product. By working closely with our partners, many well-known companies worldwide, DynaColor constantly improves our technology, operation, quality control, and manufacturing.

It is our goal to become the leading provider of innovative products and a reliable business partner in each of our targeted sectors.

DynaColor has established overseas branches in Irvine, California and in Tokyo, Japan to facilitate sales activities and services for our customers abroad. To learn more about DynaColor, please visit our web sites:

<http://www.dynacolor.com.tw>

<http://www.dynacolorusa.com>

<http://www.dynacolor.co.jp>

Corporate Strategy

• Technology-Driven:

Enrich professional man-power, acquire and develop core technology.

• Strategic Alliance

Expand worldwide cooperative partnerships through technical alliance, marketing alliance and application alliance, 3 perspectives to provide professional total solutions and services.

• Niche Products

Provide full featured and value-added products, be customer orientated, and meet various market needs.

Greetings from CEO

For more than 18 years, DynaColor dedicates itself to be an "image solution provider." Starting with award-winning CRT alignment system, DynaColor became the industry leader in high quality, cost effective multiplexer and industrial camera over the years. In the rapidly changing digital surveillance market, DynaColor develops a wide range of competitive products, which offer our clients a comprehensive product portfolio and the flexibility for customization.

We believe having a strong R&D team is the foundation to providing our customers innovative solutions. With highly experienced engineers (over 50% of total employees) in DynaColor, we can assure our clients the competitiveness and reliability of our products. Through OEM projects, commissioned by top brands around the world, we possess the critical know-how and credentials to serve our clients in accordance to their specific needs. We adopt the ISO 9001 standard to regulate our administrative process and to ensure strict quality control process. It is our commitment to quality, innovation and customer support that provides our clients the advantage to excel in the ever evolving and highly competitive market.

In the new millennium, amid optimistic prospect yet challenged by fierce competition in the industry, DynaColor will focus on providing our customers the total video surveillance solution, synchronizing video camera products, digital video recorders and system control units. With our advanced video processing technology, solid system integration credential and competence in customized products, we believe DynaColor is the solution for your video surveillance requirement.



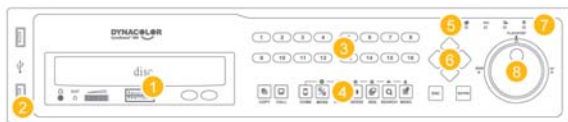
H.264 Hybrid DVR

network DynaGuard™ 600 Series



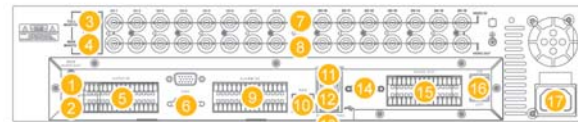
Premium H.264 DVR

Front Panel



- ① DVD/RW or Cartridge (Optional)
- ② USB 2.0 Ports
- ③ Channel Keys
- ④ Function Keys
- ⑤ LEDs
- ⑥ Direction Keys
- ⑦ IR
- ⑧ Jog / Shuttle

Rear Panel



- ① Main Audio Output
- ② S-Video Output
- ③ Call Monitor Output (BNC)
- ④ Main Monitor Output (BNC)
- ⑤ Audio Input
- ⑥ VGA and Digital Display Ports
- ⑦ Video Input
- ⑧ Video Looping
- ⑨ Alarm I/O and RS-485
- ⑩ NAS Port (RJ-45)
- ⑪ LAN 10/100/1000M (RJ-45)
- ⑫ USB 2.0 Ports
- ⑬ NTSC / PAL Switch
- ⑭ RS-232
- ⑮ Audio Output (Optional)
- ⑯ Power Switch
- ⑰ Power Jack

Features

Advanced Functions

- H.264 / MPEG-4 / MJPEG compression
- NEW** • Up to 8CH IP camera recording
- NEW** • Megapixel recording
- NEW** • Real-time recording
- Pentaplex operation
- NEW** • User management
- Per channel configuration
- NTP for time synchronization
- WLAN, SMS
- Built-in Pelco Coaxitron® protocol
- POS function: transaction monitoring
- Up to 4 internal SATA HDDs
- Supports internal DVD+RW
- NEW** • Digital display output
- NEW** • Dual-gigabit LAN ports
- NEW** • 4/8/16CH audio recording
- Mobile View software
- DynaRemote™ for remote monitoring
- DynaGuard™ CMS for video management

Humane Technology

- GUI
- NEW** • USB mouse / USB keyboard; *optional*
- Control keyboard; *optional*
- IR remote control
- Jog / Shuttle
- NEW** • UPnP
- Exports AVI file for Microsoft® Media Player

Modular Upgrade Kits

- NEW** • T / V / U Module (DG600S only) for real-time recording
- DynaStorage™ 200 for extended recording storage
- Alarm Hub for 16ch alarm relay output
- NEW** • Audio Module for 4/8/16CH audio output

Specification

Item	DG604S / T		DG608S / V	DG616S / T / U
Video				
Operation System	Embedded (Linux)			
Video Standard	NTSC/PAL Switch Selectable			
Input	BNC x 4, 1.0Vp-p/75 ohm		BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm
Input IP devices	Up to 4CH		Up to 8CH	Up to 8CH
Outputs	BNC x 1, S-Video x 1, 1.0Vp-p/75 ohm			
	Main Monitor	BNC x 1, 1.0Vp-p/75 ohm		
	Call Monitor	BNC x 1, 1.0Vp-p/75 ohm		
	Loop	BNC x 4, 1.0Vp-p/75 ohm	BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm
Digital Display Output	800 x 600, 1024 x 768, 1280 x 1024 pixels			
VGA Output	800 x 600, 1024 x 768, 1280 x 1024 pixels			
Picture Refresh Rate	NTSC: 480 PPS(16CH) / PAL: 400 PPS(16CH)			
Audio				
Input	Terminal Block x 4, Line-In		Terminal Block x 8, Line-In	Terminal Block x 16, Line-In
Output	RCA x 1, Line-Out			
Compression Method	ADPCM, G.726			
Data Rate	8KB/s, per CH			
Recording				
Compression Method	H.264 (DG600S/T/V/U); MPEG-4 / MJPEG (DG600S/T)			
Recording Mode	Schedule, Alarm, Motion Detection			
Pre-alarm	1~30 sec			
H.264	NTSC 720x480 PAL 720x576	S/T: Max 60/120pps S/T: Max 50/100pps	S/V: Max 60/240pps S/V: Max 50/200pps	S/T/U: Max 60/120/480pps S/T/U: Max 50/100/400pps
MPEG-4 / MJPEG	NTSC 720x480 PAL 720x576	S/T: Max 120/120pps S/T: Max 100/100pps	S : Max 120pps S : Max 100pps	S/T : Max 120/240pps S/T : Max 100/200pps
Recording Quality	8 Levels Presets, Adjustable			
Storage Mode	Linear / Circular			
Data Life Time	Yes (Programmable)			
Storage				
Built-in Storage Interface	x 4 SATA for HDD and DVD+RW			
Cartridge / DVD+RW	Optional			
External Storage	DynaStorage™ 200 (Gigabit LAN)			
Export	x 4 USB 2.0 Ports, Support ThumbDrive and DVD+RW			
Alarm				
Alarm Input	x 4, Terminal Block (TTL)		x 8, Terminal Block (TTL)	x 16, Terminal Block (TTL)
Alarm Relay Output	x 2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC		x 2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC	x 3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC
Alarm Detection	N.C. / N.O., Programmable			
Motion Detection	15 x 11 Grid Array, Sensitivity, Trigger Level Adjustable			
Video Loss Detection	Programmable			
Communication				
Network Connectivity	Ethernet RJ-45 connector, 10/100/1000 Mbps			
Compatible IP Cameras	ACTi, AXIS, DynaColor, HUNT, SANYO, SONY, VIVOTEK			
Remote Control Software	DynaGuard™ CMS, DynaRemote™①			
Remote Operation	Monitoring, Playback, Recording, System Setup, Dome Camera Control, Archiving			
RS232C	D-Sub 9 Pin Male			
RS-485	Terminal Block			
Dome Camera Control Protocol	DSCP, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic, JVC			
General				
Unit Dimension (W x H x D)	440 x 90 x 413 mm (17.3 x 3.54 x 16.3 inches)			
Unit Weight	7 Kg (15.42 lbs) with DVD+RW			
Package Dimension (W x H x D)	563 x 197 x 521 mm (22.17 x 7.76 x 20.51 inches)			
Package Weight	10 Kg (22.03 lbs)			
Operation Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)			
Relative Humidity	10% ~ 90% Non-condensing			
Power Consumption & Input	AC 100 ~ 240V, 50-60 Hz, 100W (Manual Select)			

Product specification and availability subject to change without notice. Certain product names mentioned herein may be trade names and / or registered trademarks of their companies.

Remark ①: DynaRemote™ Software Requirements:

Windows 2000, XP or Vista, Intel® Pentium® M 1.40GHZ or faster, 512 MB RAM (1 GB RAM or above is recommended), Microsoft® Internet Explorer 6.0 SP2, LAN or Internet connection.

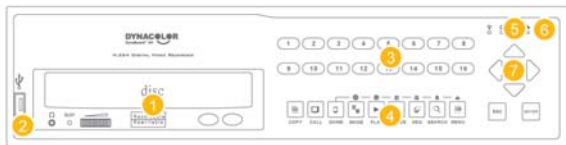
H.264 Hybrid DVR

network DynaGuard™ 80 Series



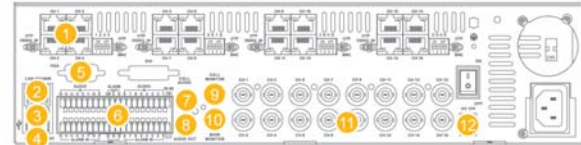
Versatile H.264 Hybrid DVR

Front Panel



- 1 DVD/RW or Cartridge (Optional)
- 2 USB 2.0 Port
- 3 Channel Keys
- 4 Function Keys
- 5 LEDs
- 6 IR
- 7 Direction Keys

Rear Panel



- 1 UTP Ports (Optional)
- 2 LAN Port (RJ-45)
- 3 USB 2.0 Ports
- 4 NTSC / PAL Switch
- 5 VGA Port (Optional)
- 6 Alarm I/O & Audio Input & RS-485 (Terminal Block)
- 7 Call Audio Output
- 8 Main Audio Output
- 9 Call Monitor Output (BNC)
- 10 Main Monitor Output (BNC)
- 11 Video Input
- 12 Power Jack

Features

Advanced Functions

- H.264 / MJPEG compression
- NEW** • Up to 2CH IP camera recording
- Quadplex operation
- NEW** • User management
- Per channel configuration
- NTP for time synchronization
- Motion detection marker
- Up to 3 internal SATA HDDs
- Supports internal DVD+RW
- UTP connection; *optional*
- NEW** • 4/8/16CH audio recording
- Mobile View software
- DynaRemote™ for remote monitoring
- DynaGuard™ CMS for video management

Humane Technology

- GUI
- NEW** • Touch panel
- USB mouse; *optional*
- Control keyboard; *optional*
- IR remote control

Specification

Item	DG84	DG88	DG86
Video			
Operation System	Embedded (Linux)		
Input	BNC × 4, 1.0Vp-p, 75 ohm	BNC × 8, 1.0Vp-p, 75 ohm	BNC × 16, 1.0Vp-p, 75 ohm
UTP (Optional)	4CH UTP	8CH UTP	16CH UTP
Input IP devices	Up to 2CH		
Outputs	Main Monitor Call Monitor	BNC × 1, 1.0Vp-p, 75 ohm BNC × 1, 1.0Vp-p, 75 ohm	
VGA Output (Optional)	800 × 600, 1024 × 768, 1280 × 1024 pixels@60 Hz (Optional)		
Picture Refresh Rate	NTSC: 30 PPS/per CH, PAL: 25 PPS/per CH		
Audio			
Input	Terminal Block × 4, Line-in	Terminal Block × 8, Line-in	Terminal Block × 16, Line-in
UTP	Supported		
Output	Main out Call Audio	RCA × 1, Line-Out RCA × 1, Line-Out	
Compression Method	Proprietary		
Data Rate	8 KB/s, per CH		
Recording			
Compression Method	H.264 / MJPEG		
Recording Mode	Schedule, Alarm, Motion Detection		
Pre-alarm	Yes		
Recording Resolution & Rate	NTSC 720 × 480 720 × 240 360 × 240 PAL 720 × 576 720 × 288 360 × 288	Max 30 fps Max 60 fps Max 120 fps Max 25 fps Max 50 fps Max 100 fps	Max 60 fps Max 120 fps Max 240 fps Max 50 fps Max 100 fps Max 200 fps
Recording Quality	8 Levels Presets, Adjustable		
Image Size	1KB to 22KB/Picture		
Storage Mode	Linear / Circular		
Data Life Time	Yes (Programmable)		
Storage			
Built-in Storage Interface	× 3 SATA for HDD and DVD+RW		
Cartridge / DVD+RW	Optional		
Export	× 3 USB 2.0 Ports, Support ThumbDrive and DVD+RW		
Alarm			
Alarm Input	× 4, Terminal Block	× 8, Terminal Block	× 16, Terminal Block
Alarm Relay Output	× 1, Terminal Block		
Alarm Detection	N.C. / N.O., Programmable		
Motion Detection	16 × 12 Grid Array, Sensitivity, Trigger Level Adjustable		
Video Loss Detection	Programmable		
Communication			
Network Connectivity	Ethernet RJ-45 Connector, 10/100 Mbps		
Compatible IP Camera	ACTi, AXIS, DynaColor, HUNT, SANYO, SONY, VIVOTEK		
Remote Control Software	DynaGuard™ CMS, DynaRemote™①		
Remote Operation	Monitor, Playback, Recording, System Setup, Dome Camera Control, Archive		
RS-485	Terminal Block		
Dome Camera Control Protocol	DSCP, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic, JVC		
General			
Unit Dimension (W × H × D)	362 × 90 × 350 mm (14.2 × 3.5 × 13.7 inches)		
Unit Weight	5.5 Kg (12.1 lbs)		
Package Dimension (W × H × D)	410 × 210 × 500 mm (16.1 × 8.2 × 19.6 inches)		
Package Weight	7 Kg (15.4 lbs)		
Operation Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)		
Relative Humidity	10% ~ 90% Non-condensing		
Power Consumption & Input	AC 100~240V, 50-60 Hz, 60W Adaptor		

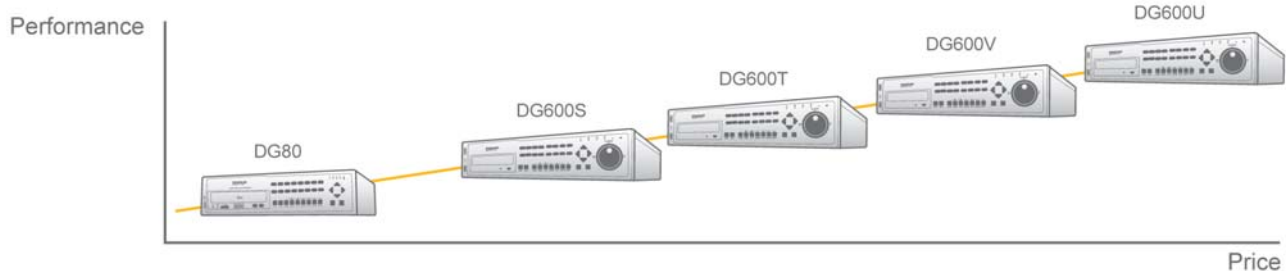
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Remark ①: DynaRemote™ Software Requirements:

Windows 2000, XP or Vista, Intel® Pentium® M 1.40GHZ or faster, 512 MB RAM (1 GB RAM or above is recommended), Microsoft® Internet Explorer 6.0 SP2, LAN or Internet connection.

H.264 Hybrid DVR

Value Chart



Comparison Chart

Feature	Premium H.264 DVR DG600 Series			Versatile H.264 DVR DG80 Series		
	DG604S / T	DG608S / V	DG616S / T / U	DG84	DG88	DG86
Recording						
Recording Rate (H.264@D1)	60 / 120	60 / 240	60 / 120 / 480	30	60	60
Recording Rate (M / J @D1)	120 / 120	120 / -	120 / 240 / -	30 (J)	60 (J)	60 (J)
*Compression Method	H / M / J	H / M / J	H / M / J	H / J	H / J	H / J
IP Camera Compatibility	4	8	8	2	2	2
Per Channel Configuration	●	●	●	●	●	●
Storage						
Max. HDDs	4	4	4	3	3	3
Network Attached Storage	○	○	○	-	-	-
Gigabit LAN Port	●	●	●	-	-	-
USB Ports	4	4	4	3	3	3
DVD Burner	●	●	●	●	●	●
Remote Network						
DynaRemote™ S/W	●	●	●	●	●	●
WLAN / SMS	●	●	●	-	-	-
Upgrade Kits						
Audio Module	○	○	○	-	-	-
T / V / U Module	○ / -	○ / -	○ / - / -	-	-	-
Alarm Hub	○	○	○	○	○	○
UTP Module	-	-	-	○	○	○
VGA Module	-	-	-	○	○	○
Application						
DynaGuard™ CMS	●	●	●	●	●	●
Mobile View S/W	●	●	●	●	●	●
Time Synchronization	●	●	●	●	●	●
UPnP	●	●	●	-	-	-
Dual-Main Function	●	●	●	-	-	-
Digital Display Output	●	●	●	-	-	-
Two-way Audio	○	○	○	-	-	-
Operation Interface						
Jog / Shuttle	●	●	●	-	-	-
USB Mouse	○	○	○	○	○	○
USB Keyboard	○	○	○	-	-	-
IR Remote Control	●	●	●	●	●	●
Compact Control Keyboard	○	○	○	○	○	○
GUI	●	●	●	●	●	●
Touch Panel	-	-	-	●	●	●

* : H stands for H.264 compression, M stands for MPEG-4 compression, J stands for MJPEG compression, V and U models don't support MPEG-4 and MPEG compressions
 ● Supported ○ Optional - Not supported

The network DynaGuard™ series supports the H.264 compression and Megapixel IP camera recording. It keeps all intelligent functions for managing and provides an integrated solution of recording videos from both existing analog cameras and oncoming IP cameras. With the hybrid video-in configurations, it saves the cost of replace for the replacement of camera devices in the period of IP transition.

The Central Management System, DynaGuard™ CMS, is a free bundled video management software that allows the administrator to monitor up to 64 live video channels from cameras or DVRs, to record and playback on the PC using instant or schedule recording modes, and to archive the DVR recorded video remotely.

Product Selection



DG6

Channels	HDD	Device Option	Video System
04S: 4 CH S model	000: None	0: None	P: PAL
04T: 4 CH T model	016: 160 GB	M: Cartridge	N: NTSC
08S: 8 CH S model	032: 320 GB	D: DVD/RW	
08V: 8 CH S model	050: 500 GB		
16S: 16 CH S model	064: 640 GB		
16T: 16 CH T model	075: 750 GB		
16U: 16 CH U model	100: 1000 GB		



DG08

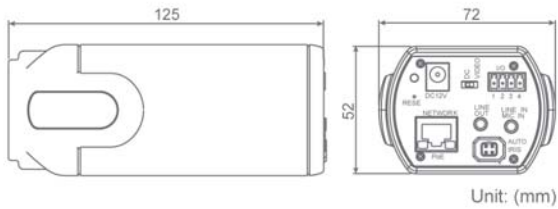
Channels	HDD	Connection	Device Option	Video System
4: 4 CH	000: None	0: BNC	0: None	P: PAL
8: 8 CH	016: 160 GB	U: UTP	M: Cartridge	N: NTSC
6: 16 CH	032: 320 GB		D: DVD/RW	
	050: 500 GB			
	064: 640 GB			
	075: 750 GB			
	100: 1000 GB			

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network DynaHawk™ 060 Series



Dimension



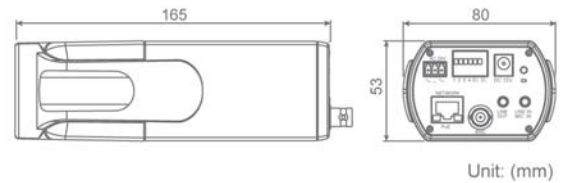
Features

- Sony Progressive scan CCD/CMOS sensor
- Dual streaming: MJPEG & MPEG-4
- Day/Night function (ICR); *optional*
- Power over Ethernet (802.3af); *optional*
- WDR (Wide Dynamic Range); *optional*
- NEW** • Tampering Alarm
- Motion Detection
- NEW** • Privacy Masks
- 12x Digital Zoom
- Backlight Compensation / Auto Exposure / Flickerless mode
- Digital slow shutter
- Two-way audio support
- Built-in Microphone; *optional*
- Free bundled CMS software

network DynaHawk™ 070 Series



Dimension



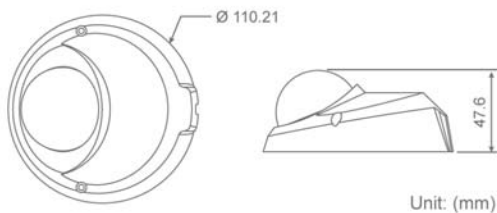
Features

- 1.3 Megapixel Progressive scan CCD sensor
- Dual streaming: MJPEG & MPEG-4
- Day/Night function (ICR)
- Power over Ethernet (802.3af)
- NEW** • Auto focus lens F=4.95~49.5mm
- NEW** • Motion Detection
- 10x Optical Zoom with AF
- 12x Digital Zoom
- Low light sensitivity 0.001 lux @ F1.6
- Backlight Compensation / Auto Exposure / Flickerless mode
- Digital slow shutter
- Two-way audio support
- Half duplex RS-485; *optional*
- BNC analog Output; *optional*
- Free bundled CMS software

network DynaHawk™ 101 Series



Dimension



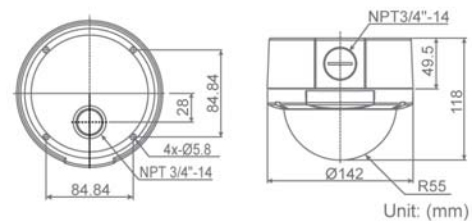
Features

- Sony 1.3 Megapixel Progressive scan CMOS sensor
- Dual streaming: MJPEG & MPEG-4
- Power over Ethernet (802.3af)
- Fixed focal lens F= 3.6 mm
- NEW** • Tampering Alarm
- Motion Detection
- NEW** • Privacy Masks
- 12x Digital Zoom
- Backlight Compensation / Auto Exposure / Flickerless mode
- Digital slow shutter
- One-way audio support
- Built-in Microphone; *optional*
- Weatherproof Dongle Cable for rugged use; *optional*
- Weatherproof (IP66 international standard)
- Security Torx against tampering
- Free bundled CMS software

network DynaHawk™ 210 Series



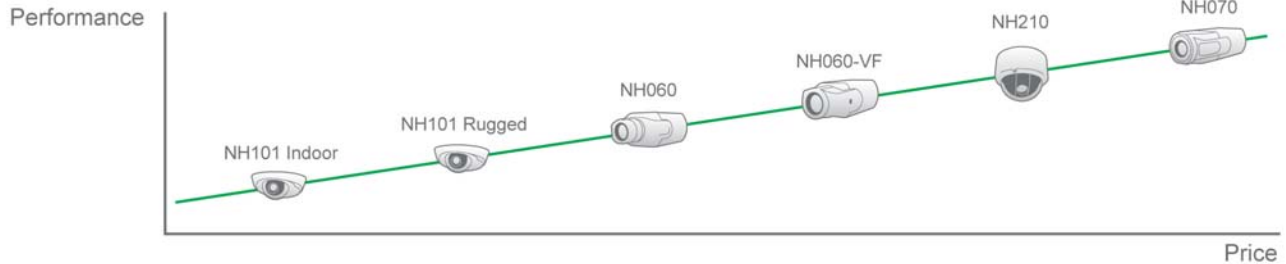
Dimension



Features

- Sony Progressive scan CCD/CMOS sensor
- Dual streaming: MJPEG & MPEG-4
- Day/Night function (ICR); *optional*
- Power over Ethernet (802.3af)
- Varifocal lens F= 3.3~12mm
- NEW** • Tampering Alarm
- Motion Detection
- NEW** • Privacy Masks
- 12x Digital Zoom
- Backlight Compensation / Auto Exposure / Flickerless mode
- Digital slow shutter
- Two-way audio support
- Weatherproof (IP66 international standard)
- Security Torx against tampering
- 3-axis (pan/tilt/rotation) position adjustment
- Built-in heater and fan; *optional*
- 4S mount support
- Free bundled CMS software

Value Chart



Comparison Chart

Item	NH101 Indoor	NH101 Rugged	NH060	NH060-VF	NH210	NH070
CCD	-	-	•	•	•	•
CMOS	•	•	-	-	-	-
Lens	fixed focal	fixed focal	C/CS mount	varifocal	varifocal	10x AF
ICR	-	-	○	○	○	○
Audio in	-	-	•	•	•	•
Audio out	-	-	•	•	•	•
Mic in	○	-	○	○	-	-
BNC	-	-	-	-	-	○
SD card	-	-	-	-	-	○
RS485	-	-	-	-	-	•
Vandal proof	-	-	-	-	•	-
IP66	-	•	-	-	•	-

• Supported ○ Optional - Not supported

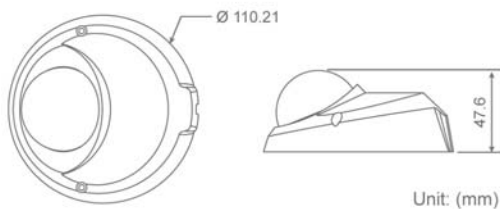
Specification

Item	CCD Cameras	CMOS Cameras
Camera		
Image Sensor	1/3" Sony Progressive CCD	1/3.8" Sony Progressive CMOS
Picture Elements	1280(H) x 960 (V)	1280(H) x 960 (V)
Resolution	>700 TVL	>700 TVL
Minimum Illumination	0.02 lux @ F 1.2 (Color) 0.001 lux @ F1.2 (B/W)	0.06 lux @ F 1.2 (Color) 0.005 lux @ F1.2 (B/W)
Shutter Speed	1.5~ 1/10000 sec.	1.5~1/15000 sec.
White Balance	Manual / ATW (1500 ~ 15000K)	
Digital Zoom	1x ~ 12x	
Operation		
Video Compression	MPEG-4 / MJPEG	
Video Streaming	Simultaneous MPEG-4 and MJPEG video stream (dual stream)	
Resolution	MPEG-4: VGA, QVGA, CIF, QCIF MJPEG: 1280x960(4 VGA), VGA	
Frame Rate	MPEG-4 30fps@VGA, MJPEG 15fps@1280x960	
Image Setting	Brightness, Exposure, Sharpness, Contrast, White Balance, Image Rotation	
Audio	Two-way Audio	
Alarm	Input	5V 10kΩ pull up
	Output	Photo relay output 300VDC/AC
Network		
Interface	10/100 Ethernet (RJ-45)	
Protocol	TCP/IP, UDP, RTP, RTSP, HTTP, ICMP, FTP, SMTP, DHCP and IGMP	
Password Levels	User and Administrator	
Internet Browser	Internet Explorer (6.0+)	
User Account	20	
General		
Operating Temperature	0°C ~ 50°C	
	Humidity: 10% to 90%, no condensation	
Power Source	DC12V/PoE/AC24V	
Power Consumption	4.2W (max. 350mA@DC12V)	3W (max. 250mA@DC12V)
Certificate	CE, FCC, RoHS compliant	

netWatch™ 101 Series



Dimension



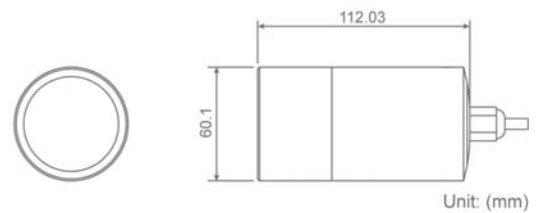
Features

- NEW** • 1/4" Progressive scan CMOS sensor
- Selectable streaming: MJPEG / H.264
- Power over Ethernet (802.3af)
- Fixed focal lens F= 3.6 mm
- Motion Detection
- 7x Digital Zoom
- One-way audio support
- Built-in Microphone; *optional*
- 10/100 Ethernet with RJ-45 connector
- Dongle Cable for rugged use; *optional*
- NEW** • Weatherproof (IP66 international standard)
- Security Torx against tampering

netWatch™ 050 Series



Dimension



Features

- NEW** • 1/4" Progressive scan CMOS sensor
- Selectable streaming: MJPEG / H.264
- IR LED
- NEW** • Power over Ethernet (802.3af)
- Fixed focal lens F= 3.6 mm
- Motion Detection
- 7x Digital Zoom
- Two-way audio support
- 10/100 Ethernet with RJ-45 connector
- Weatherproof (IP66 international standard)

Specification

Item	NW101	NW050	
Camera			
Image Sensor	1/4" Megapixel CMOS		
Picture Elements	1280(H) x 960 (V), 1.3M CMOS		
Operation			
Video Compression	H.264 / MJPEG		
Video Streaming	Selectable Stream		
Audio Compression	MS ADPCM		
Resolution	H.264: 1280 x 960,VGA / MJPEG: 1280 x 960,VGA		
Horizontal Resolution	>700TVL		
Frame Rate	H.264 / MJPEG 15fps@1280 x 960 ,VGA		
Image Setting	Brightness	Manual Control	
	Exposure	Auto and Manual Control	
	Sharpness	Manual Control	
	Contrast	Manual Control	
	White Balance	Auto,Indoor,Outdoor,Manual Control	
	Rotation	Flip, Mirror, and 180° Rotate	
Network			
Interface	10/100 Ethernet (RJ-45)		
Protocol	IP, TCP,DHCP,FTP,HTTP,RTP,RTSP		
Password Levels	User and Administrator		
Internet Browser	Internet Explorer (6.0+)		
General			
Operating Temperature	0 °C ~ 40 °C		
Operating Humidity	30% to 90%		
Power Source	PoE	DC12V & PoE	
Power Consumption	5W	7W	
Regulatory	CE & FCC		
Certificate	RoHS compliant , IP66(Rugged Model Only)	RoHS compliant, IP66	
Mechanical			
Connectors	Ethernet	RJ-45(Indoor Model) / Ethernet Cable(Rugged Model)	RJ-45
	Audio Input	Built-in Mic; <i>optional</i>	External Mic; <i>optional</i>
	Audio Output	N/A	External Speaker; <i>optional</i>
	Alarm Input	N/A	2*TTL Input (Terminal Block)
	Alarm Output	N/A	N/A
	Storage	N/A	N/A
Dimension			
W x H x L	110 x 110 x 47 mm	Φ 60 x 111 mm	

Product Selection



NH060-

Sensor 1: VGA Super HAD 3: 1.3M CCD 4: 1.3M CMOS	Lens Type 0: CS mount type 1: CS mount type, D/N A: Varifocal 3.3-12 mm B: Varifocal 3.3-12 mm, D/N	Power 1: DC12V 2: DC12V & PoE 3: DC12V & AC24V & PoE	IR LED 0: w/o	Frequency 1: 60Hz 2: 50Hz 0: None	WDR 0: w/o W: w/
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NH070-

Sensor 3: 1.3M CCD	Lens Type 7: 10X Zoom, 4.95~49.5mm	Power 2: DC12V & PoE 3: DC12V & AC24V & PoE	IR LED 0: w/o	Frequency 5: 50Hz 6: 60Hz	Features 0: w/o R: RS485 1: RS485+BNC
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NH101-

Sensor 4: 1.3M CMOS	Lens Type 2: Fixed focal 3.6 mm	Power 4: PoE	IR LED 0: w/o	Power Plug 0: None M: M12 R: RJ-45 Cable	Frequency 6: 60Hz	Microphone 0: w/o 1: w/
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* Microphone feature is only available in standard models



NH210-

Sensor 1: VGA Super HAD 3: 1.3M CCD 4: 1.3M CMOS	Lens Type A: Varifocal 3.3-12 mm B: Varifocal 3.3-12 mm, D/N	Power 1: DC12V 2: DC12V & PoE 3: DC12V & AC24V & PoE	IR LED 0: w/o	Frequency 1: 60Hz 2: 50Hz	WDR 0: w/o	Heater/Fan 0: w/o H/F 1: w/ H/F
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* H / F is needed to collocate with AC24V model



NW101-

Sensor 6. 1.3M CMOS	Lens Type 1: Fixed focal 3.6 mm	Power 4: PoE	IR LED 0: w/o	Power Plug 0: None R: RJ-45 Cable	Frequency 5: 50Hz 6: 60Hz	Microphone 0: w/o 1: w/
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* Microphone feature is only available in standard models



NW050-

Sensor 6. 1.3M CMOS	Lens Type 1: Fixed focal 3.6 mm	Power 2: DC12V & PoE	IR LED 1: w/	Power Plug 0: None 1: US plug 2: EU plug	Frequency 5: 50Hz 6: 60Hz
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DynaGuard™ CMS



Central Management System

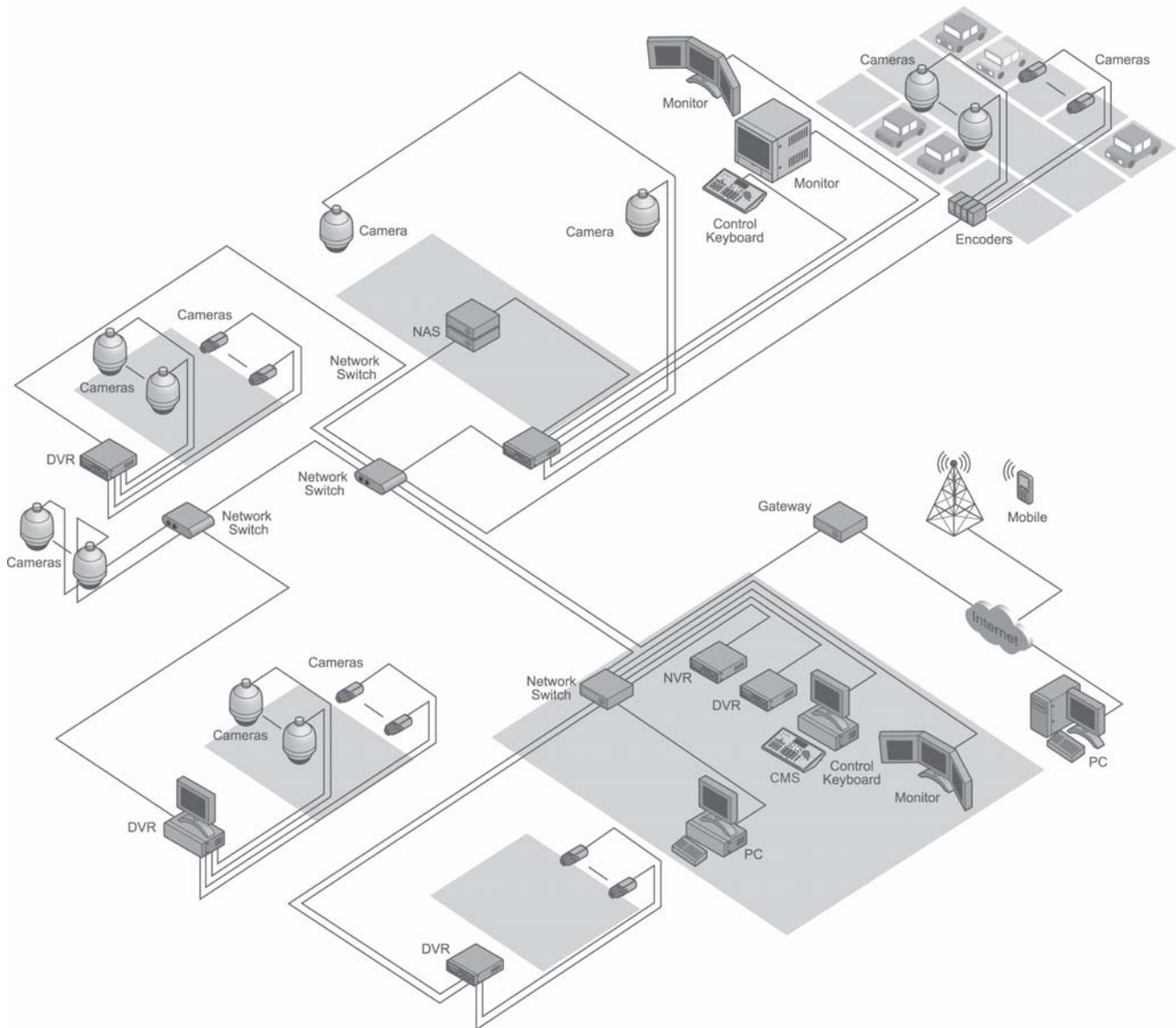
Features

- Instant DVR and IP camera settings
- NEW** • Up to 512 channels viewing
- eMap management
- Instant / scheduled recording
- Remote & local playback
- Recorded image adjustment
- Event playback and alert notification
- NEW** • Remote archiving / configuring
- NEW** • Configuration exporting and importing
- NEW** • Digital pan, tilt and zoom & 2-way audio
- NEW** • Analog & IP speed dome control / IP joystick support
- NEW** • User management / lock function
- HDD status report
- Multi-language support
- NEW** • Smart motion playback

Specification

Item	DynaGuard™ CMS
Input Devices	
Camera	NH Series / NW Series / AXIS 200 Series / Vivotek 7000 Series
DVR	DG80 / DG90 / DG200 / DG600
Video Encoder / Dome Camera	D7521 / DH500e / DH701e / DH801*e
Video Format	
Video Channels	Up to 64 channels
Video Compression	H.264 / MJPEG / MPEG-4
Resolution	QCIF, CIF, QVGA, VGA, 1280 × 960
Recording	
Instant Recording	Manually start / stop recording
Scheduled Recording	Scheduled time frame for recording
Audio	
Recording w/ audio	Supports instant recording w/ audio
Live w/ audio	Supports live display w/ audio
2 way audio	Bidirectional audio transmission
Monitoring	
Live Monitoring	Different viewing modes / Full screen / Sequence
Remote Playback	Playback recorded video remotely
Local Playback	Playback recorded video on PC
Snapshot	Still image
Dome Camera Control	Multiple dome camera control protocols
Image Adjustment	Brightness, Saturation, Hue, Contrast
Event	
Playback	Select and playback events from the event list
Remote Archiving	Select and archive events from the event list
Search	All events will be listed by time
Notification	Event full screen / Alert notification
System Requirement	
Operation System	Windows XP, Windows Vista
CPU	Pentium 4, 3.0 GHz or above
Memory	1GB or above

System Diagram





■ H.264 Hybrid DVR

■ Megapixel IP Camera

■ Application

■ System Diagram



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