



# Product Catalog

- 2010 Digital Surveillance Solution -



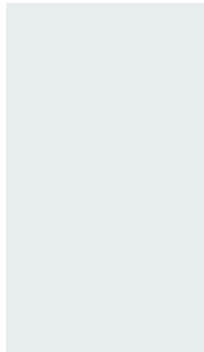
■ H.264 Hybrid DVR

■ Megapixel IP Camera

■ High Speed Dome 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 19 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.

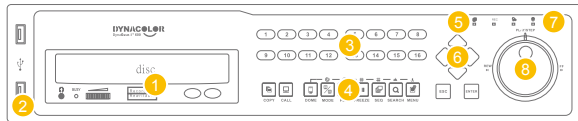


## H.264 Hybrid DVR

### network DynaGuard™ 600 Series

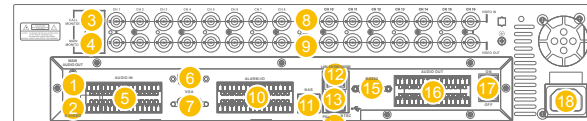


#### Front Panel



- 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 Output
- 7 Digital Display Output
- 8 Video Input
- 9 Video Looping
- 10 Alarm I/O and RS-485
- 11 NAS Port (RJ45)
- 12 LAN 10/100/1000M (RJ45)
- 13 USB 2.0 Ports
- 14 NTSC / PAL Switch
- 15 RS-232
- 16 Audio Output; *optional*
- 17 Power Switch
- 18 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
- NEW** • Dual streaming (DG600 T/V/U only)
- NEW** • Privacy Masks
- NEW** • Digital display output
- NEW** • Dual-gigabit LAN ports
- NEW** • 4/8/16CH audio recording
- Mobile View software (iPhone support)
- 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
- NEW** • Smart Playback Search

#### 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
- NEW** • Matrix Module for additional call monitor and alarm relay outputs

## Specification

Item	DG604S / T		DG608S / V		DG616S / T / U	
<b>Video</b>						
Operation System	Embedded (Linux)					
Video Standard	NTSC / PAL Switch Selectable					
Input	BNC × 4, 1.0 Vp-p, 75 ohm		BNC × 8, 1.0 Vp-p, 75 ohm		BNC × 16, 1.0 Vp-p, 75 ohm	
Input IP Devices	Up to 4CH		Up to 8CH		Up to 8CH	
Outputs	BNC × 1, S-Video × 1, 1.0 Vp-p, 75 ohm					
Main Monitor	BNC × 1, 1.0 Vp-p, 75 ohm					
Call Monitor	BNC × 1, 1.0 Vp-p, 75 ohm					
Loop	BNC × 4, 1.0 Vp-p, 75 ohm		BNC × 8, 1.0 Vp-p, 75 ohm		BNC × 16, 1.0 Vp-p, 75 ohm	
Digital Display Output	800 × 600, 1024 × 768, 1280 × 1024 pixels					
VGA Output	800 × 600, 1024 × 768, 1280 × 1024 pixels					
Picture Refresh Rate	NTSC: 30 pps/per CH, PAL: 25 pps/per CH					
<b>Audio</b>						
Input	Terminal Block × 4, Line-In		Terminal Block × 8, Line-In		Terminal Block × 16, Line-In	
Output	RCA × 1, Line-Out					
Compression Method	ADPCM, G.726					
Data Rate	8 KB/s, per CH					
<b>Recording</b>						
Compression Method	H.264 (DG600S / T / V / U); MPEG-4 / MJPEG (DG600S / T)					
Recording Mode	Schedule, Alarm, Motion Detection					
Pre-alarm	Yes					
H.264	NTSC 720 × 480	S / T: Max 60 / 120 pps	S / V: Max 60 / 240 pps	S / T / U: Max 60 / 120 / 480 pps		
	PAL 720 × 576	S / T: Max 50 / 100 pps	S / V: Max 50 / 200 pps	S / T / U: Max 50 / 100 / 400 pps		
MPEG-4 / MJPEG	NTSC 720 × 480	S / T: Max 120 / 120 pps	S : Max 120 pps	S / T : Max 120 / 240 pps		
	PAL 720 × 576	S / T: Max 100 / 100 pps	S : Max 100 pps	S / T : Max 100 / 200 pps		
Recording Quality	8 Levels Presets, Adjustable					
Storage Mode	Linear / Circular					
Data Lifetime	Yes (Programmable)					
<b>Storage</b>						
Built-in Storage Interface	× 4 SATA for HDD and DVD+RW					
Cartridge / DVD+RW	Optional					
External Storage	DynaStorage™ 200 (Gigabit LAN)					
Export	× 4 USB 2.0 Ports, Support ThumbDrive and DVD+RW					
<b>Alarm</b>						
Alarm Input	× 4, Terminal Block (TTL)		× 8, Terminal Block (TTL)		× 16, Terminal Block (TTL)	
Alarm Relay Output	× 2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC		× 2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC		× 3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC	
Alarm Detection	N.C. / N.O., programmable					
Motion Detection	15 × 11 Grid Array, Sensitivity, Trigger level adjustable					
Video Loss Detection	Programmable					
<b>Communication</b>						
Network Connectivity	RJ45, 10/100/1000 Mbps Ethernet					
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					
RS-232C	D-SUB 9 pin male					
RS-485	Terminal Block					
Dome Camera Control Protocol	DSCP, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic, JVC					
<b>General</b>						
Unit Dimension (W × H × D)	440 × 90 × 413 mm (17.3 × 3.54 × 16.3 inches)					
Unit Weight	7 Kg (15.42 lbs ) with DVD+RW					
Package Dimension (W × H × D)	563 × 197 × 521 mm (22.17 × 7.76 × 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, 200W (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.

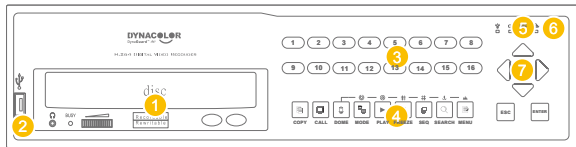
## H.264 Hybrid DVR

### network DynaGuard™ 80 Series



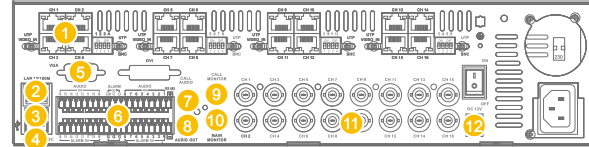
Versatile H.264 Hybrid DVR

#### 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 10/100M (RJ45)
- 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 (iPhone support)
- DynaRemote™ for remote monitoring
- DynaGuard™ CMS for video management
- NEW** • Dual streaming

##### Humane Technology

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

## Specification

Item	DG84	DG88	DG86
<b>Video</b>			
Operation System	Embedded (Linux)		
Input	BNC × 4, 1.0 Vp-p, 75 ohm	BNC × 8, 1.0 Vp-p, 75 ohm	BNC × 16, 1.0 Vp-p, 75 ohm
UTP; <i>optional</i>	4CH UTP	8CH UTP	16CH UTP
Input IP Devices	Up to 2CH		
Outputs	Main Monitor	BNC × 1, 1.0 Vp-p, 75 ohm	
	Call Monitor	BNC × 1, 1.0 Vp-p, 75 ohm	
VGA Output; <i>optional</i>	800 × 600, 1024 × 768, 1280 × 1024 pixels		
Picture Refresh Rate	NTSC: 30 pps/per CH, PAL: 25 pps/per CH		
<b>Audio</b>			
Input	Terminal Block × 4, Line-In	Terminal Block × 8, Line-In	Terminal Block × 16, Line-In
Output	Main Audio	RCA × 1, Line-Out	
	Call Audio	RCA × 1, Line-Out	
Compression Method	Proprietary		
Data Rate	8 KB/s, per CH		
<b>Recording</b>			
Compression Method	H.264 / MJPEG		
Recording Mode	Schedule, Alarm, Motion Detection		
Pre-alarm	Yes		
Recording Resolution & Rate	NTSC 720 × 480 720 × 240 360 × 240	Max 30 pps Max 60 pps Max 120 pps	Max 60 pps Max 120 pps Max 240 pps
	PAL 720 × 576 720 × 288 360 × 288	Max 25 pps Max 50 pps Max 100 pps	Max 50 pps Max 100 pps Max 200 pps
Recording Quality	8 Levels Presets, Adjustable		
Image Size	1 KB to 22 KB/Picture		
Storage Mode	Linear / Circular		
Data Lifetime	Yes (Programmable)		
<b>Storage</b>			
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		
<b>Alarm</b>			
Alarm Input	× 4, Terminal Block (TTL)	× 8, Terminal Block (TTL)	× 16, Terminal Block (TTL)
Alarm Relay Output	× 1, Terminal Block, 1.0A / 30 VDC or 1.0A / 120 VAC		
Alarm Detection	N.C. / N.O., programmable		
Motion Detection	16 × 12 Grid Array, Sensitivity, Trigger level adjustable		
Video Loss Detection	Programmable		
<b>Communication</b>			
Network Connectivity	RJ45, 10/100 Mbps Ethernet		
Compatible IP Camera	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		
RS-485	Terminal Block		
Dome Camera Control Protocol	DSCP, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic, JVC		
<b>General</b>			
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:

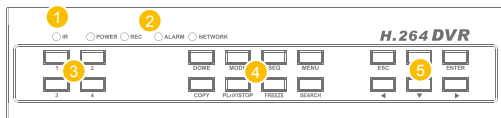
Windows 2000, XP or Vista, Intel® Pentium® M 1.40GHZ or faster, 512 MB RAM (1 GB RAM or above is recommended), Microsoft® Internet Explorer 6.0 SP2, LAN or Internet connection.

## H.264 Hybrid DVR

### network DynaGuard™ L80 Series

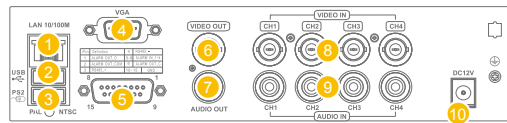


#### Front Panel



- ① IR
- ② LEDs
- ③ Channel Keys
- ④ Function Keys
- ⑤ Direction Keys

#### Rear Panel



- ① LAN 10/100M (RJ45)
- ② USB 2.0 Port
- ③ PS2 mouse port
- ④ VGA Port; *optional*
- ⑤ Alarm I/O & Audio Input & RS-485 (D-SUB)
- ⑥ Main Monitor Output (BNC)
- ⑦ Main Audio Output
- ⑧ Video Input
- ⑨ Audio Input
- ⑩ Power Jack

### Features

#### Advanced Functions

- H.264 compression
- Quadplex operation
- NEW** • User management
- Per channel configuration
- NTP for time synchronization
- Motion detection marker
- Up to 2 internal SATA HDDs
- NEW** • 4/8/16CH audio recording
- Mobile View software (iPhone support)
- DynaRemote™ for remote monitoring
- DynaGuard™ CMS for video management
- NEW** • Dual streaming

#### Humane Technology

- GUI
- USB mouse (PS2 protocol); *optional*
- Control keyboard; *optional*
- IR remote control



## Specification

Item	L84	L88	L86
<b>Video</b>			
Operation System	Embedded (Linux)		
Input	BNC × 4, 1.0 Vp-p, 75 ohm	BNC × 8, 1.0 Vp-p, 75 ohm	BNC × 16, 1.0 Vp-p, 75 ohm
Outputs	Main Monitor Call Monitor	BNC × 1, 1.0 Vp-p, 75 ohm	
VGA Output; <i>optional</i>	N / A	BNC × 1, 1.0 Vp-p, 75 ohm	
Picture Refresh Rate	800 × 600, 1024 × 768, 1280 × 1024 pixels NTSC: 30 pps/per CH, PAL: 25 pps/per CH		
<b>Audio</b>			
Input	RCA × 4, Line-In	D-SUB × 8, Line-In	D-SUB × 16, Line-In
Output	Main Audio Call Audio	RCA × 1, Line-Out	
Compression Method	Proprietary		
Data Rate	8 KB/s, per CH		
<b>Recording</b>			
Compression Method	H.264		
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 pps Max 60 pps Max 120 pps Max 25 pps Max 50 pps Max 100 pps	Max 60 pps Max 120 pps Max 240 pps Max 50 pps Max 100 pps Max 200 pps
Recording Quality	8 Levels Presets, Adjustable		
Image Size	1 K to 22 KB/Picture		
Storage Mode	Linear / Circular		
Data Lifetime	Yes (Programmable)		
<b>Storage</b>			
Built-in Storage Interface	× 2 SATA		
Export	× 1 USB 2.0 Port, Supports ThumbDrive, or DVD+RW		
<b>Alarm</b>			
Alarm Input	× 4, D-SUB (TTL)	× 8, D-SUB (TTL)	× 16, D-SUB (TTL)
Alarm Relay Output	× 1, D-SUB, 1.0A / 30 VDC or 1.0A / 120 VAC		
Alarm Detection	N.C. / N.O., Programmable		
Motion Detection	16 × 12 Grid Array, Sensitivity, Trigger level adjustable		
Video Loss Detection	Programmable		
<b>Communication</b>			
Network Connectivity	RJ45, 10/100 Mbps Ethernet		
Remote Control Software	DynaGuard™ CMS, DynaRemote™①		
Remote Operation	Monitoring, Playback, Recording, System setup, Dome camera control, Archiving		
RS-485	D-SUB		
IR Remote	Yes		
Dome Camra Control Protocol	DSCP, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic, JVC		
<b>General</b>			
Unit Dimension (W × H × D)	300 × 55 × 360 mm (11.8 × 2.2 × 14.2 inches)		
Unit Weight	2.3 Kg (5.1 lbs)		
Package Dimension (W × H × D)	456 × 145 × 456 mm (18.0 × 5.7 × 18.0 inches)		
Package Weight	3.8 Kg (8.4 lbs)		
Operation Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)		
Relative Humidity	10% ~ 90%, Non-condensing		
Power Consumption & Input	AC 100 ~ 240V, 50-60Hz, 60W adaptor		

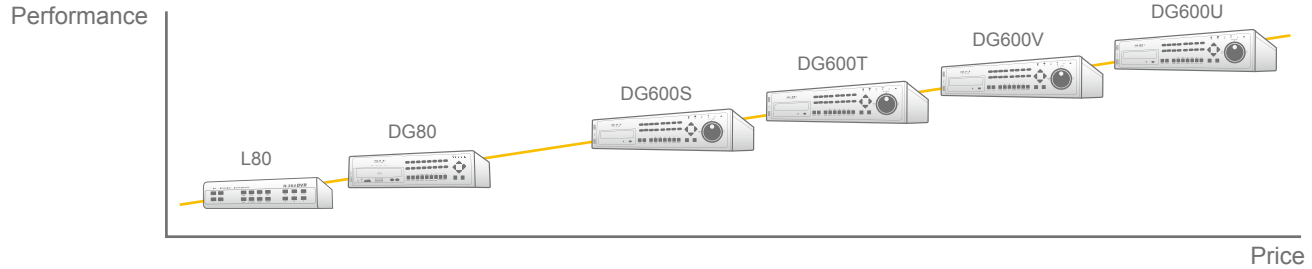
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## H.264 Hybrid DVR

### Value Chart



### Comparison Chart

Feature	Premium H.264 DVR DG600 Series			Versatile H.264 DVR DG80 Series			Lite H.264 DVR L80 Series		
	DG616S / T / U	DG608S / V	DG604S / T	DG86	DG88	DG84	L86	L88	L84
<b>Recording</b>									
Recording Rate (H.264 @ D1)	60 / 120 / 480	60 / 240	60 / 120	60	60	30	60	60	30
Recording Rate (M / J @ D1)	120 / 240 / -	120 / -	120 / 120	60 (J)	60 (J)	30 (J)	-	-	-
*Compression Method	H / M / J	H / M / J	H / M / J	H / J	H / J	H / J	H	H	H
IP Camera Compatibility	8	8	4	2	2	2	-	-	-
Per Channel Configuration	●	●	●	●	●	●	●	●	●
<b>Storage</b>									
Max. HDDs	4	4	4	3	3	3	2	2	2
Network Attached Storage	○	○	○	-	-	-	-	-	-
Gigabit LAN Port	●	●	●	-	-	-	-	-	-
USB Ports	4	4	4	3	3	3	1	1	1
DVD Burner	●	●	●	●	●	●	○	○	○
<b>Remote Network</b>									
DynaRemote™ S/W	●	●	●	●	●	●	●	●	●
WLAN / SMS	●	●	●	-	-	-	-	-	-
<b>Upgrade Kits</b>									
Audio Module	○	○	○	-	-	-	-	-	-
Matrix Module	○	○	○	-	-	-	-	-	-
T / V / U Module	○ / - / -	○ / -	○ / -	-	-	○	-	-	-
Alarm Hub	○	○	○	○	○	○	○	○	○
UTP Module	-	-	-	○	○	○	-	-	-
VGA Module	●	●	●	○	○	○	○	○	○
<b>Application</b>									
DynaGuard™ CMS	●	●	●	●	●	●	○	○	○
Mobile View S/W	●	●	●	●	●	●	●	●	●
Time Synchronization	●	●	●	●	●	●	●	●	●
UPnP™	●	●	●	-	-	-	-	-	-
Dual streaming	- / ● / ●	- / ●	- / ●	●	●	●	●	●	●
Digital Display Output	●	●	●	-	-	-	-	-	-
<b>Operation Interface</b>									
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 MJPEG compressions  
 ● Supported ○ Optional - Not supported

The network DynaGuard™ series supports 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 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
<b>04S:</b> 4 CH S model	<b>000:</b> None	<b>0:</b> None	<b>P:</b> PAL
<b>04T:</b> 4 CH T model	<b>016:</b> 160 GB	<b>M:</b> Cartridge	<b>N:</b> NTSC
<b>08S:</b> 8 CH S model	<b>032:</b> 320 GB	<b>D:</b> DVD+RW	
<b>08V:</b> 8 CH V model	<b>050:</b> 500 GB	<b>A:</b> Audio Module	
<b>16S:</b> 16 CH S model	<b>064:</b> 640 GB	<b>T:</b> Matrix Module	
<b>16T:</b> 16 CH T model	<b>075:</b> 750 GB		
<b>16U:</b> 16 CH U model	<b>100:</b> 1000 GB		
	<b>150:</b> 1500 GB		
	<b>200:</b> 2000 GB		



### DG08

Channels	HDD	Connection	Device Option	Video System
<b>4:</b> 4 CH	<b>000:</b> None	<b>0:</b> BNC	<b>0:</b> None	<b>P:</b> PAL
<b>6:</b> 16 CH	<b>016:</b> 160 GB	<b>U:</b> UTP	<b>M:</b> Cartridge	<b>N:</b> NTSC
	<b>032:</b> 320 GB		<b>D:</b> DVD+RW	
	<b>050:</b> 500 GB			
	<b>064:</b> 640 GB			
	<b>075:</b> 750 GB			
	<b>100:</b> 1000 GB			
	<b>150:</b> 1500 GB			
	<b>200:</b> 2000 GB			



### L08

Channels	HDD	Device Option	Video System
<b>4:</b> 4 CH	<b>000:</b> None	<b>0:</b> None	<b>P:</b> PAL
<b>8:</b> 8 CH	<b>016:</b> 160 GB	<b>M:</b> Cartridge	<b>N:</b> NTSC
<b>6:</b> 16 CH	<b>032:</b> 320 GB	<b>D:</b> DVD+RW	
	<b>050:</b> 500 GB		
	<b>064:</b> 640 GB		
	<b>075:</b> 750 GB		
	<b>100:</b> 1000 GB		
	<b>150:</b> 1500 GB		
	<b>200:</b> 2000 GB		

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.

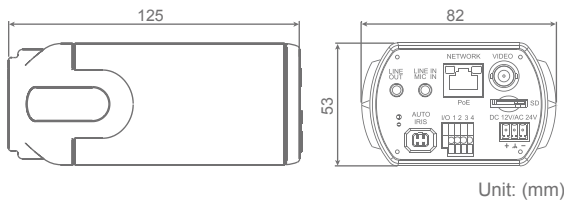
Megapixel IP Camera

network DynaHawk™  
061 Series



HD WDR IP Camera

Dimension



Unit: (mm)

Features

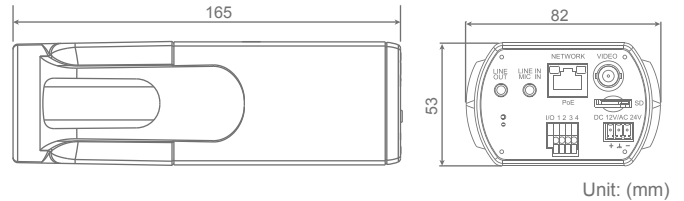
- Sony Progressive Scan CCD/CMOS sensor
- NEW** • HD 720p Real-time at dual streaming
- H.264, MJPEG and MPEG-4 compression
- NEW** • Integrated Real-time WDR
- NEW** • 2D / 3D Noise Reduction
- Motion Detection
- Privacy Masks
- True Day/Night (ICR)
- Micro SD support
- BNC analog output

network DynaHawk™  
071 Series



HD WDR 10× Zoom IP Camera

Dimension



Unit: (mm)

Features

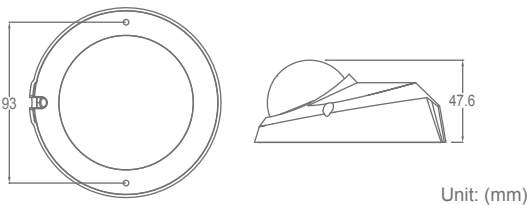
- Sony Progressive Scan CCD/CMOS sensor
- NEW** • HD 720p Real-time at dual streaming
- H.264, MJPEG and MPEG-4 compression
- Auto focus lens f = 4.95 ~ 49.5 mm
- 10× Optical Zoom with AF
- NEW** • Integrated Real-time WDR
- NEW** • 2D / 3D Noise Reduction
- Motion Detection
- Privacy Masks
- True Day/Night (ICR)
- Micro SD support
- BNC analog output

\* Available in 2010 Q1

## network DynaHawk™ 102 Series



### Dimension



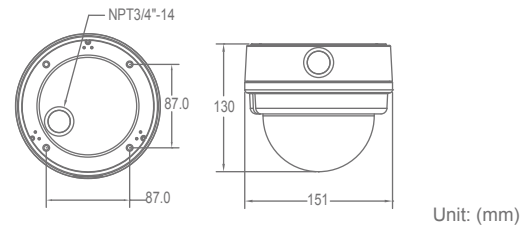
### Features

- Sony Progressive Scan CMOS sensor
- NEW** • HD 720p Real-time at dual streaming
- H.264 and MJPEG compression
- Motion Detection
- Privacy Masks
- Micro SD Support
- Weatherproof Dongle Cable; *optional*
- Weatherproof (IP 66 international)
- Security Torx against tampering

## network DynaHawk™ 221 Series



### Dimension

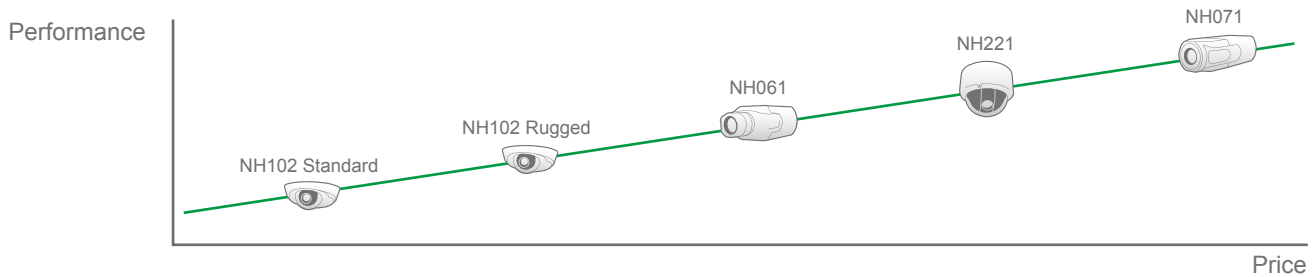


### Features

- Sony Progressive Scan CCD/CMOS sensor
- NEW** • HD 720p Real-time at dual streaming
- H.264, MJPEG and MPEG-4 compression
- Varifocal lens f= 3.3 ~ 12 mm
- NEW** • Integrated Real-time WDR
- NEW** • 2D / 3D Noise Reduction
- Motion Detection
- Privacy Masks
- True Day/Night (ICR)
- Micro SD support
- BNC analog output
- Weatherproof (IP 66 international)
- Vandal proof dome cover
- NEW** • Sun Shield & Outdoor Mounting Kit

# Megapixel IP Camera

## Value Chart



## Comparison Chart

Item	NH102 Standard	NH102 Rugged	NH061	NH221	NH071
CCD	-	-	•	•	•
CMOS	•	•	•	•	•
Lens	fixed focal	fixed focal	C/CS mount	varifocal C/CS mount	varifocal 10× AF
ICR	-	-	○	○	○
Audio in	○	-	•	•	•
Audio out	-	-	•	•	•
BNC	-	-	•	•	•
SD card	○	•	•	•	•
Vandal proof	-	-	-	•	-
Weatherproof (IP 66)	-	•	-	•	-

• Supported ○ Optional - Not supported

## Specification

Item	CCD Cameras	CMOS Cameras
<b>Camera</b>		
Image Sensor	Sony 1/3" Progressive CCD	Sony 1/3" Progressive CMOS
Picture Elements	1280(H) × 960(V)	1280(H) × 1024(V)
Minimum Illumination	0.02 lux @ F1.2 (Color) 0.001 lux @ F1.2 (B/W)	0.02 lux @ F1.2 (Color) 0.001 lux @ F1.2 (B/W)
Shutter Speed	1 ~ 1/10000 sec.	
White Balance	Manual / ATW (1500 ~ 15000 K)	
Digital Zoom	1× ~ 16×	
<b>Operation</b>		
Video Compression	H.264 Baseline / MJPEG / MPEG-4	
Video Streaming	Simultaneously, H.264 + MJPEG Simultaneously, MPEG-4 + MJPEG Simultaneously, MJPEG + BNC	
Resolution	H.264: 1280 × 960 / HD 720p / D1 / VGA / QVGA / CIF / QCIF MJPEG: 1280 × 960 / HD 720p / D1 / VGA / QVGA / CIF / QCIF MPEG4: 1280 × 960 / HD 720p / D1 / VGA / QVGA / CIF / QCIF	H.264: 1280 × 1024 / HD 720p / D1 / VGA / QVGA / CIF / QCIF MJPEG: 1280 × 1024 / HD 720p / D1 / VGA / QVGA / CIF / QCIF MPEG4: 1280 × 1024 / HD 720p / D1 / VGA / QVGA / CIF / QCIF
Frame Rate	12.5/15 fps @ 1280 × 960 25/30 fps @ 720p	12.5/15 fps @ 1280 × 1024 25/30 fps @ 720p
Image Setting	Brightness, Exposure, Sharpness, Contrast, White Balance, Image Rotation	
Audio	Two-way Audio	
Alarm	Input	5V 10kΩ pull up
	Output	Photo relay output 300 VDC/AC
<b>Network</b>		
Interface	RJ45, 10/100 Mbps Ethernet	
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	
<b>General</b>		
Operating Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F) Humidity: 10% to 90%, Non-condensing	
Power Source	DC 12V / PoE / AC 24V	
Power Consumption	6W	4.5W
Certificate	CE, FCC, RoHS	

## Product Selection



NH061-

<b>Sensor</b> 3: Sony 1.3M CCD 5: Sony 1.3M CMOS	<b>Lens Type</b> 0: CS mount type 1: CS mount type, D/N	<b>Power</b> 3: DC 12V & AC 24V & PoE	<b>Connectors</b> 0: Standard	<b>Power plug</b> 0: None
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NH102-

<b>Sensor</b> 5: Sony 1.3M CMOS	<b>Lens Type</b> 2: Fixed focal 4.3 mm	<b>Power</b> 4: PoE	<b>Connectors</b> 1: Micro SD	<b>Ethernet</b> 0: RJ45 M: M12 R: RJ45 Cable	<b>Microphone</b> 0: w/o 1: w/
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NH221-

<b>Sensor</b> 3: Sony 1.3M CCD 5: Sony 1.3M CMOS	<b>Lens Type</b> A: Varifocal 3.3 ~ 12 mm B: Varifocal 3.3 ~ 12 mm, D/N	<b>Power</b> 3: DC 12V & AC 24V & PoE	<b>Connectors</b> 0: Standard	<b>Power plug</b> 0: None	<b>Heater/Fan</b> 0: Indoor w/o H/F
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# High Speed Dome Camera

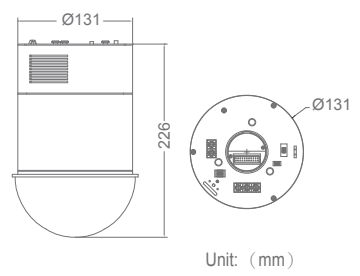
## DynaHawk™ 701 / 801+ Series



Integrated High Speed Dome Camera

### Dimension

DH701 Integrated High Speed Dome Camera



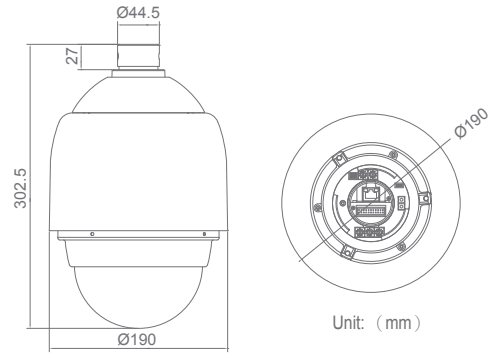
Unit: (mm)

### Features

- Precise and Accurate Dome Camera Performance
- Preset speed up to 400°/sec.
  - Preset accuracy of 0.225°
  - Proportional Pan & Tilt Speed
  - Preset Position / Auto-Pan / Sequence / Cruise
  - Auto-Calibration
  - Digital / Mechanical Image Flip (180°); *optional*
- Dynamic Dome Camera Applications
- NEW** • Multi-language OSD
  - Schedule function
  - NEW** • Multiple built-in protocols
  - Up to 24 privacy masks; *optional*
  - 8 alarm inputs, 1 alarm output
  - Motion Detection; *optional*
  - Flexible indoor / outdoor mountings
  - Compact lightweight design for easy installation
  - Weatherproof housing
  - NEW** • Integrated Pelco Coaxitron® support
  - NEW** • Integrated BOSCH Biphase® support

### Dimension

DH801+ Integrated High Speed Dome Camera



Unit: (mm)

### Superior Camera Image Quality

- Minimum illumination 0.01 Lux (B/W)
- Digital Slow Shutter
- Electronic Shutter
- Wide Dynamic Range (WDR); *optional*
- Auto White Balance
- Backlight Compensation
- Auto Exposure
- Image Inverse; *optional*
- Electronic Image Stabilizer; *optional*
- Removable IR Cut Filter; *optional*
- Digital Noise Reduction; *optional*



## Specification

Item		R Model	G Model	M Model	V Model	P Model	T Model
<b>Camera</b>							
CCD Sensor		1/4" CCD	1/4" EXview CCD	1/4" CCD	1/4" EXview CCD	1/4" CCD	1/4" EXview CCD
Progressive Scan		-	-	Yes	-	Yes	-
Optical Zoom		22x	18x	23x	26x	35x	36x
Digital Zoom		1x ~ 12x variable					
Effective Pixels	NTSC	380 k					
	PAL	440 k					
Horizontal Resolution	NTSC	480 TVL	530 TVL	540 TVL	530 TVL	540 TVL	530 TVL
	PAL	480 TVL	530 TVL	540 TVL	530 TVL	540 TVL	530 TVL
Scanning System		NTSC / PAL					
Synchronization		Internal / Line Lock					
Video Output		1.0 Vpp / 75 ohm, BNC					
S/N Ratio		> 50 dB (AGC Off)					
Minimum Illumination		1 lux	0.07 lux, 0.01 lux (B/W)	0.1 lux, 0.01 lux (B/W)	0.09 lux, 0.01 lux (B/W)	0.1 lux, 0.01 lux (B/W)	0.1 lux, 0.01 lux (B/W)
Focal Length		4 ~ 88 mm	4.1 ~ 73.8 mm	3.6 ~ 82.8 mm	3.5 ~ 91 mm	3.4 ~ 119 mm	3.4 ~ 122.4 mm
Focus Mode		Auto / Manual					
White Balance		Auto / Manual					
Iris Control		Auto / Manual					
Electronic Shutter	NTSC	1/60 ~ 1/30k sec.	1/1 ~ 1/10k sec.	1/2 ~ 1/30k sec.	1/1 ~ 1/10k sec.	1/1 ~ 1/30k sec.	1/1 ~ 1/10k sec.
	PAL	1/50 ~ 1/30k sec.	1/1 ~ 1/10k sec.	1/1.5 ~ 1/30k sec.	1/1 ~ 1/10k sec.	1/1 ~ 1/30k sec.	1/1 ~ 1/10k sec.
AGC Control		Auto / Manual					
Back Light Compensation		On / Off					
<b>Operation</b>							
Built-in Protocol		DSCP, Pelco P, Pelco D, AD422, Philips, Kalatel, VCL, JVC, etc.					
Multi-language OSD		English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Turkish, S. Chinese, T. Chinese					
Pan Travel		360° endless					
Tilt Travel		-10° ~ 100°	-10° ~ 190°				
Manual Speed		0.5° ~ 90°/s					
Presets		256					
Preset Accuracy		0.225°					
Preset Speed		5° ~ 400°/s					
Sequence		8					
Auto-Pan		4					
Cruise		8					
Privacy Mask		-	24	8	24	8	24
Proportional Pan & Tilt		On / Off (Pan and tilt speed is proportional to zoom ratio)					
Resume after Power loss		Yes					
Zone Title		16					
Home Function		Preset, Sequence, Auto-Pan, Cruise					
Auto-Flip		Mechanical / Off	Digital / Mechanical / Off				
Digital Slow Shutter		-	On / Off	On / Off	On / Off	On / Off	On / Off
Electronic Image Stabilizer		-	-	-	-	On / Off	-
Motion Detection		-	On / Off	On / Off	On / Off	On / Off	On / Off
Wide Dynamic Range		-	On / Off	On / Off	On / Off	On / Off	On / Off
Day / Night: IR Cut Filter		-	On / Off	On / Off	On / Off	On / Off	On / Off
Image Freeze		-	On / Off	On / Off	On / Off	On / Off	On / Off
Image Inverse		-	On / Off	On / Off	On / Off	On / Off	On / Off
Digital Noise Reduction		-	-	-	-	On / Off	-
Alarm Input		8					
Alarm Output		1					
Alarm Reaction		Preset, Sequence, Auto-Pan, Cruise					
<b>General</b>							
Environment		Indoor / Outdoor					
Controller Interface		RS-485					
Operating Temperature	DH701	0 °C ~ 40 °C (32 °F ~ 104 °F)					
	DH801+	-45 °C ~ 50 °C (-49 °F ~ 122 °F)					
Weatherproof Standard		IP 66 Standard (DH801+ series only)					
Dimension	DH701	Ø 131 × 226 mm (Ø 5.2 × 8.9 inches)					
	DH801+	Ø 172 × 302.5 mm (Ø 6.7 × 11.9 inches) / Ø 190 × 302.5 mm (Ø 7.5 × 11.9 inches), with sunshield					
Weight	DH701	1.6 Kg (3.5 lbs)					
	DH801+	2.6 Kg (5.7 lbs)					
Power Source	DH701	DC 12V / AC 24V ± 10%					
	DH801+	AC 24V ± 10%					
Power Consumption	DH701	20 W					
	DH801+	65 W (with Heater)					
Regulatory		CE, FCC, RoHS					

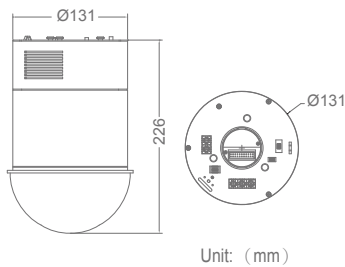
# High Speed Dome Camera

## DynaHawk™ 701 / 801+ S1/S2 Series



### Dimension

DH701 Integrated High Speed Dome Camera



### Features

#### Precise and Accurate Dome Camera Performance

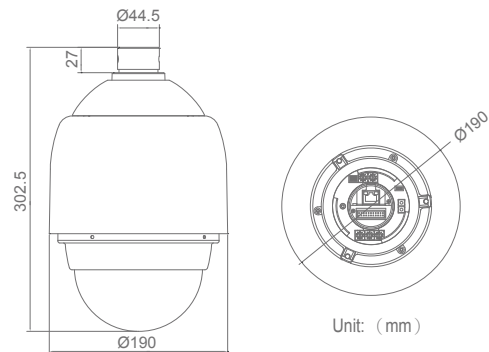
- High Resolution 540 TV lines
- Preset speed up to 400°/sec.
- Preset accuracy of 0.225°
- 360° Endless Pan
- Proportional Pan & Tilt Speed
- Preset Position / Auto-Pan / Sequence / Cruise
- Auto-Calibration
- Digital / Mechanical Image Flip (180°)

#### Dynamic Dome Camera Applications

- NEW** • Multi-language OSD
  - Schedule function
- NEW** • Multiple built-in protocols
  - 16 privacy masks
  - 8 alarm inputs, 1 alarm output
  - Motion Detection
  - Flexible indoor / outdoor mountings
  - Compact lightweight design for easy installation
  - Weatherproof housing
- NEW** • Integrated Pelco Coaxitron® support
- NEW** • Integrated BOSCH Biphas® support

### Dimension

DH801+ Integrated High Speed Dome Camera



#### Superior Camera Image Quality

- Minimum illumination 0.01 Lux (B/W)
- Digital Slow Shutter
- Electronic Shutter
- Auto White Balance
- Backlight Compensation
- Auto Exposure
- Image Inverse
- NEW** • Removable IR Cut Filter
- NEW** • Wide Dynamic Range (WDR); *optional*
- NEW** • 2D / 3D Noise Reduction

#### Optional Network Functions

- NEW** • H.264 and MJPEG compression
- NEW** • D1 Real-time resolution
- NEW** • 3D de-interlaced support

## Specification

Item	S1 Model	S2 Model
<b>Camera</b>		
CCD Sensor	1/4" Sony CCD	
Progressive Scan	-	
Optical Zoom	30×	36×
Digital Zoom	1× ~ 12× variable	
Effective Pixels	NTSC	380 k
	PAL	440 k
Horizontal Resolution	540 TVL	
Scanning System	NTSC / PAL	
Synchronization	Internal / Line Lock	
Video Output	1.0 Vp-p / 75 Ω, BNC	
S/N Ratio	> 50 dB (AGC Off)	
Minimum Illumination	0.1 lux, 0.01lux (B/W)	
Focal Length	3.4 ~ 102 mm	3.4 ~ 122.4 mm
Focus Mode	Auto / Manual	
White Balance	Auto / Manual	
Iris Control	Auto / Manual	
Electronic Shutter	1/1~1/10k sec.	
AGC Control	Auto / Manual	
Back Light Compensation	On / Off	
<b>Operation</b>		
Built-in Protocol	DSCP, Pelco P, Pelco D, AD422, Philips, Kalatel, VCL, JVC, etc.	
Multi-language OSD	English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Turkish, S. Chinese, T. Chinese	
Pan Travel	360° endless	
Tilt Travel	-10° ~ 190°	
Manual Speed	0.5° ~ 90°/s	
Presets	256	
Preset Accuracy	0.225°	
Preset Speed	5° ~ 400°/s	
Sequence	8	
Auto-Pan	4	
Cruise	8	
Privacy Mask	16	
Proportional Pan & Tilt	On / Off (Pan and tilt speed proportional to zoom ratio)	
Resume after Power loss	Yes	
Zone Title	16	
Home Function	Preset, Sequence, Auto-Pan, Cruise	
Auto-Flip	Digital / Mechanical / Off	
Digital Slow Shutter	On / Off	
Motion Detection	On / Off	
Wide Dynamic Range: <i>optional</i>	On / Off	
Day / Night: IR Cut Filter	On / Off	
Image Freeze	On / Off	
Image Inverse	On / Off	
Noise Reduction	2D	On / Off
	3D	On / Off
Alarm Input	8	
Alarm Output	1	
Alarm Reaction	Preset, Sequence, Auto-Pan, Cruise	
<b>Network; optional</b>		
Video Compression	H.264 Main Profile, MJPEG	
Video Streaming	Dual H.264 / Simultaneously H.264 + MJPEG	
Video Resolution	D1: NTSC 720 × 480 / PAL 720 × 576	
	CIF: NTSC 352 × 240 / PAL 352 × 288	
Frame Rate	30 fps @ D1 Resolution	
Audio Compression	G.726 ADPCM/ AAC	
Audio Streaming	Full-duplex, Half-duplex, Simplex	
Interface	RJ45, 10/100 Mbps Ethernet	
Protocols	TCP/IP, UDP, HTTP, FTP, SMTP, ARP, ICMP, DHCP, RTP/RTSP	
Alarm	4 digital alarm inputs / 1 alarm output	
Alarm Reaction	Preset, Sequence, Auto-Pan, Cruise	
Security	User Account and Password Protection	
<b>General</b>		
Environment	Indoor / Outdoor	
Controller Interface	RS-485	
Operating Temperature	DH701	0 °C ~ 40 °C (32 °F ~ 104 °F)
	DH801+	-45 °C ~ 50 °C (-49 °F ~ 122 °F)
Weatherproof Standard	IP 66 standard (DH801+ series only)	
Dimension	DH701	Ø 131 × 226 mm (Ø 5.2 × 8.9 Inches)
	DH801+	Ø 172 × 302.5 mm (Ø 6.7 × 11.9 Inches) / Ø 190 × 302.5 mm (Ø 7.5 × 11.9 Inches), with sunshield
Weight	DH701	1.6 kg (3.5 lbs)
	DH801+	2.6 kg (5.7 lbs)
Power Source	DH701	DC 12V / AC 24V ± 10%
	DH801+	AC 24V ± 10%
Power Consumption	DH701	20 W
	DH801+	65 W (with Heater)
Regulatory	CE, FCC, RoHS	

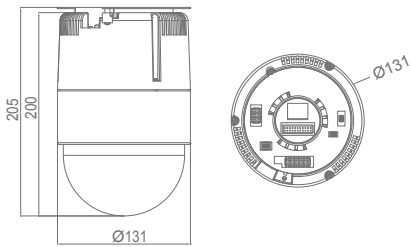
# High Speed Dome Camera

## DynaHawk™ 510 / 610 Series



### Dimension

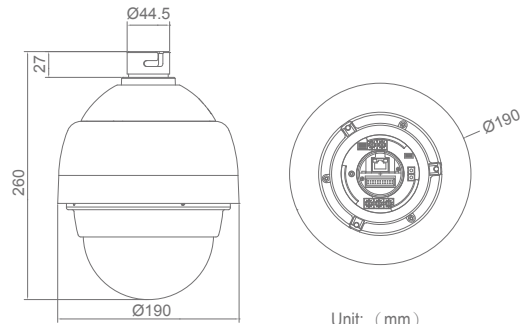
DH510 Mini Speed Dome Camera



Unit: (mm)

### Dimension

DH610 Mini Speed Dome Camera



Unit: (mm)

### Features

#### Precise and Accurate Dome Camera Performance

- NEW** • High Resolution 540 TV lines
- Preset Speed up to 400°/sec.
- NEW** • Preset Accuracy of 0.225°
- 360° Endless Pan
- Proportional Pan & Tilt Speed
- Preset Positions / Auto-Pan / Sequence / Cruise
- Auto-Calibration
- Digital / Mechanical Image Flip (180°)

#### Dynamic Dome Camera Applications

- Schedule function
- Multiple built-in protocols
- Extraordinary lightweight design for easy installation
- Vandal proof dome cover; *optional*
- Weatherproof housing (DynaHawk™ 610 series)
- Flexible indoor / outdoor mountings
- 16 Privacy Masks
- Motion Detection

#### Superior Camera Image Quality

- 12× Optical Zoom
- 12× Digital Zoom
- Digital Slow Shutter
- Backlight Compensation
- Auto Focus
- Auto White Balance
- Auto Gain Control
- Auto Iris Control
- Auto-Calibration
- Removable IR Cut Filter
- Minimum Illumination: 0.1 Lux, 0.01 Lux (B/W)
- NEW** • Wide Dynamic Range (WDR); *optional*
- NEW** • 2D / 3D Noise Reduction

#### Optional Network Functions

- NEW** • H.264 and MJEG compression
- NEW** • D1 Real-time resolution
- NEW** • 3D de-interlaced support

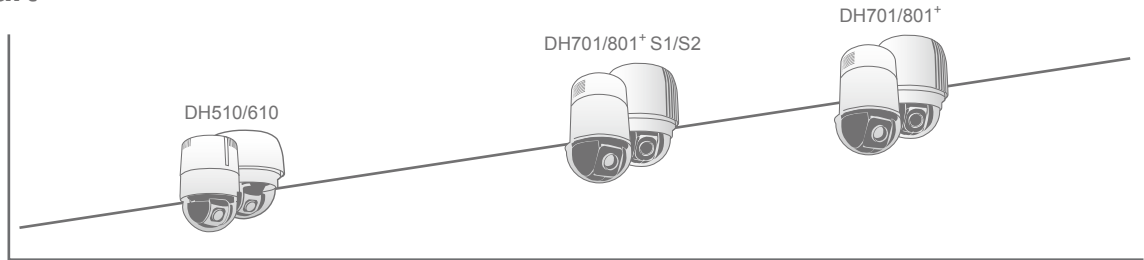
## Specification

Item	DH510	DH610
<b>Camera</b>		
CCD Sensor	1/4" Sony CCD	
Optical Zoom	12×	
Digital Zoom	1× ~ 12× variable	
Effective Pixels	NTSC	380 k
	PAL	440 k
Horizontal Resolution	540 TVL	
Scanning System	NTSC / PAL	
Synchronization	Internal / Line Lock	
Video Output	1.0 Vp-p / 75 Ω, BNC	
Minimum Illumination	0.1 lux; 0.01 lux (B/W)	
Focal Length	3.8 ~ 45.6 mm	
Focus Mode	Auto / Manual	
White Balance	Auto / Manual / Indoor / Outdoor	
Iris Control	Auto / Manual	
Electronic Shutter	1/1 ~ 1/10k sec.	
AGC Control	Auto / Manual	
Back Light Compensation	On / Off	
<b>Operation</b>		
Built-in Protocol	DSCP, Pelco P, Pelco D, AD422, Philips, Kalatel, VCL, JVC, etc.	
Multi-language OSD	English, French, German, Italian, Portuguese, Spanish	
Pan Travel	360° endless	
Tilt Travel	-10° ~ 190°	
Manual Speed	1° ~ 80°/s	
Presets	256	
Preset Accuracy	0.225°	
Preset Speed	10° ~ 400°/s	
Sequence	8	
Auto-Pan	4	
Cruise	8	
Privacy Mask	16	
Proportional Pan & Tilt	On / Off (Pan and tilt speed is proportional to zoom ratio)	
Resume after Power loss	Yes	
Zone Title	16	
Home Function	Preset, Sequence, Auto-Pan, Cruise	
Auto-Flip	Digital / Mechanical / Off	
Digital Slow Shutter	On / Off	
Motion Detection	On / Off	
Wide Dynamic Range; optional	On / Off	
Day / Night: IR Cut Filter	On / Off	
Image Freeze	On / Off	
Image Inverse	On / Off	
Noise Reduction	2D	On / Off
	3D	On / Off
Alarm Input	8	
Alarm Output	1	
Alarm Reaction	Preset, Sequence, Auto-Pan, Cruise	
<b>Network; optional</b>		
Video Compression	H.264 Main Profile, MJPEG	
Video Streaming	Dual H.264 / Simultaneously H.264 + MJPEG	
Video Resolution	D1: NTSC 720 × 480 / PAL 720 × 576	
	CIF: NTSC 352 × 240 / PAL 352 × 288	
Frame Rate	30 fps @ D1 Resolution	
Audio Compression	G.726 ADPCM/ AAC	
Audio Streaming	Full-duplex, Half-duplex, Simplex	
Interface	RJ45, 10/100 Mbps Ethernet	
Protocols	TCP/IP, UDP, HTTP, FTP, SMTP, ARP, ICMP, DHCP, RTP/RTSP	
Alarm	4 digital alarm inputs / 1 alarm output	
Alarm Reaction	Preset, Sequence, Auto-Pan, Cruise	
Security	User Account and Password Protection	
<b>General</b>		
Environment	Indoor	Outdoor
Controller Interface	RS-485	
Operating Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)	-30 °C ~ 45 °C (-22 °F ~ 113 °F)
Weatherproof Standard	IP 66 Standard	
Dimension	Ø 131 × 200 mm (Ø 5.2 × 7.8 inches)	
	Ø 172 × 260 mm (Ø 6.8 × 10.2 inches) Ø 190 × 260 mm (Ø 7.5 × 10.2 inches), with sunshield	
Weight	1.2 kg (2.6 lbs)	2.1 kg (4.6 lbs)
Power Source	DC 12V / AC 24V±10%	AC 24V ± 10%
Power Consumption	14 W	52 W (with Heater)
Regulatory	CE, FCC, RoHS	

# High Speed Dome Camera

## Value Chart

Performance



Price

## Indoor Model Comparison Chart

Item	DH701								DH510
	T	P	V	M	G	R	S2	S1	
<b>Camera</b>									
Optical Zoom	36×	35×	26×	23×	18×	22×	36×	30×	12×
Digital Zoom	12×	12×	12×	12×	12×	12×	12×	12×	12×
Resolution	530 TVL	540 TVL	530 TV	540 TVL	530 TVL	480 TVL	540 TVL	540 TVL	540 TVL
Day / Night (ICR)	●	●	●	●	●	-	●	●	○
Wide Dynamic Range (WDR)	●	●	●	●	●	-	○	○	○
Motion Detection	●	●	●	●	●	-	●	●	●
Digital Image Flip	●	●	●	●	●	-	●	●	●
2D/3D Noise Reduction	-	●	-	-	-	-	●	●	●
Electronic Image Stabilizer	-	●	-	-	-	-	-	-	-
<b>Operation</b>									
Endless Pan Rotation	●	●	●	●	●	●	●	●	●
Preset Positions	256	256	256	256	256	256	256	256	256
Sequence Lines	8	8	8	8	8	8	8	8	8
Auto-Pan	4	4	4	4	4	4	4	4	4
Cruise	8	8	8	8	8	8	8	8	8
Privacy Mask	24	8	24	8	24	-	16	16	16
Home Function	●	●	●	●	●	●	●	●	●
Multi-language OSD	●	●	●	●	●	●	●	●	●
Multiple Protocols	●	●	●	●	●	●	●	●	●
Resume after Power Loss	●	●	●	●	●	●	●	●	●
Proportional Pan & Tilt	●	●	●	●	●	●	●	●	●

● Support ○ Option - Not Support

## Outdoor Model Comparison Chart

Item	DH801+								DH610
	T	P	V	M	G	R	S2	S1	
<b>Camera</b>									
Optical Zoom	36×	35×	26×	23×	18×	22×	36×	30×	12×
Digital Zoom	12×	12×	12×	12×	12×	12×	12×	12×	12×
Resolution	530 TVL	540 TVL	530 TV	540 TVL	530 TVL	480 TVL	540 TVL	540 TVL	540 TVL
Day / Night (ICR)	●	●	●	●	●	-	●	●	○
Wide Dynamic Range (WDR)	●	●	●	●	●	-	○	○	○
Motion Detection	●	●	●	●	●	-	●	●	●
Digital Image Flip	●	●	●	●	●	-	●	●	●
2D/3D Noise Reduction	-	●	-	-	-	-	●	●	●
Electronic Image Stabilizer	-	●	-	-	-	-	-	-	-
<b>Operation</b>									
Endless Pan Rotation	●	●	●	●	●	●	●	●	●
Preset Positions	256	256	256	256	256	256	256	256	256
Sequence Lines	8	8	8	8	8	8	8	8	8
Auto-Pan	4	4	4	4	4	4	4	4	4
Cruise	8	8	8	8	8	8	8	8	8
Privacy Mask	24	8	24	8	24	-	16	16	16
Home Function	●	●	●	●	●	●	●	●	●
Multi-language OSD	●	●	●	●	●	●	●	●	●
Multiple Protocols	●	●	●	●	●	●	●	●	●
Resume after Power Loss	●	●	●	●	●	●	●	●	●
Proportional Pan & Tilt	●	●	●	●	●	●	●	●	●
<b>Outdoor Dome Camera</b>									
Vandal Proof Dome Cover	○	○	○	○	○	○	○	○	○
Built-in Heater	●	●	●	●	●	●	●	●	●
Weather Resistant Housing (IP 66)	●	●	●	●	●	●	●	●	●
Sunshield Housing	○	○	○	○	○	○	○	○	○

● Support ○ Option - Not Support

Product Selection



DH701 -

DH801<sup>+</sup> -

Interface	Camera	Motor	Video System	Body Color	Cover Color	Sunshield	Power
<i>O</i> : Analog <i>E</i> : Ethernet <i>X</i> : Coaxial <i>B</i> : Biphase	<i>R</i> : 22× <i>G</i> : 18×, ICR <i>M</i> : 23×, ICR <i>V</i> : 26×, ICR <i>P</i> : 35×, ICR <i>T</i> : 36×, ICR	<i>F</i> : Standard	<i>N</i> : NTSC <i>P</i> : PAL	<i>W</i> : White	<i>T</i> : Transparent <i>S</i> : Smoke <i>V</i> : Vandal Proof	<i>0</i> : w/o <i>1</i> : w	<i>1</i> : DC 12V <i>2</i> : AC 24V

\*ICR, IR Cut Filter Removable, enables Day / Night function



DH701 -S1/S2

DH801<sup>+</sup> -S1/S2

Interface	Camera	Motor	Video System	Body Color	Cover Color	Sunshield	Power
<i>O</i> : Analog <i>E</i> : Ethernet <i>X</i> : Coaxial <i>B</i> : Biphase	<i>1</i> : 30×, ICR <i>2</i> : 36×, ICR <i>3</i> : 30×, ICR, WDR <i>4</i> : 36×, ICR, WDR	<i>F</i> : Standard	<i>N</i> : NTSC <i>P</i> : PAL	<i>W</i> : White	<i>T</i> : Transparent <i>V</i> : Vandal Proof <i>S</i> : Smoke	<i>0</i> : w/o <i>1</i> : w	<i>1</i> : DC 12V <i>2</i> : AC 24V

\* ICR, IR Cut Filter Removable, enables Day / Night function



DH510 -

DH610 -

Interface	Camera	Sensor	Motor	Video System	Body	Cover Color	Power
<i>O</i> : Analog <i>E</i> : Ethernet	<i>A</i> : 12× <i>B</i> : 12×, ICR <i>D</i> : 12×, ICR, WDR	<i>1</i> : EXview	<i>A</i> : Standard	<i>N</i> : NTSC <i>P</i> : PAL	<i>1</i> : Standard (DH510) <i>2</i> : Classic (DH510) <i>A</i> : w/o Sunshield (DH610) <i>B</i> : w/ Sunshield (DH610)	<i>T</i> : Transparent <i>V</i> : Vandal Proof <i>S</i> : Smoke	<i>1</i> : DC 12V <i>2</i> : AC 24V

\*ICR, IR Cut Filter Removable, enables Day / Night function

Application

# 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
- Image adjustment of recorded videos
- 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

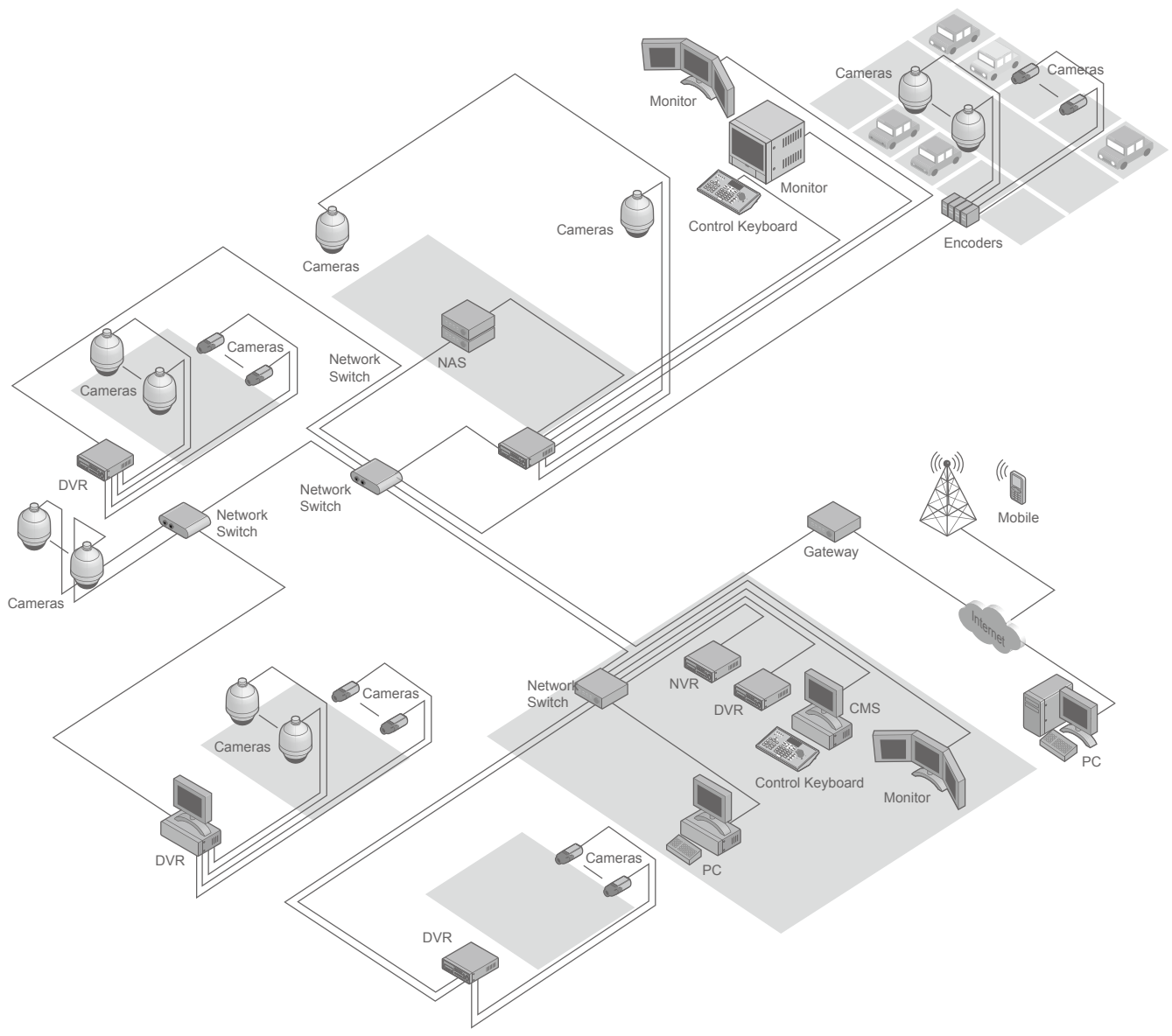
## Specification

Item	DynaGuard™ CMS
<b>Input Devices</b>	
Camera	NH Series / AXIS 200 Series / Vivotek 7000 Series / ACTi 4200 Series
DVR	DG80 / DG200 / DG600
Video Encoder / Dome Camera	DH510e / DH610e / DH701e / DH801*e
<b>Video Format</b>	
Video Channels	Up to 64CH
Video Compression	H.264 / MJPEG / MPEG-4
Resolution	Up to 2048 × 1536
<b>Recording</b>	
Instant Recording	Manually start / stop recording
Scheduled Recording	Scheduled time frame for recording
<b>Audio</b>	
Recording w/ audio	Supports instant recording w/ audio
Live w/ audio	Supports live display w/ audio
Two-way audio	Bidirectional audio transmission
<b>Monitoring</b>	
Live Monitoring	Different viewing modes / Full screen / Sequence
Remote Playback	Playback recorded videos remotely
Local Playback	Playback recorded videos on PC
Snapshot	Still image
Dome Camera Control	Multiple dome camera control protocols
Image Adjustment	Brightness, Saturation, Hue, Contrast
<b>Event</b>	
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
<b>System Requirement</b>	
Operation System	Windows XP, Windows Vista
CPU	Pentium 4, 2.0 GHz or above
Memory	1 GB or above





# System Diagram



# MEMO

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**Service & Support**

DynaColor designs and manufactures video surveillance products and CRT / LCD AOI system, and dedicates itself to be an “image solution provider”.

**Downloads**

<http://www.dynacolor.com.tw/english/Download.asp>

**Help Desk**

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DynaColor (Japan), INC.	+81-3-5524-6655



■ H.264 Hybrid DVR

■ Megapixel IP Camera

■ High Speed Dome Camera

■ Application

■ System Diagram



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