



# Integrated High Speed Dome Camera

DynaHawk™ 701/801 Series

**An Introduction to the  
High Speed Dome Camera**



# **In Summary:**

## **“Precise Check in a Snap”**

- **Five models: R, E, F, K&U**
- **Compact and Stylish design**
- **High performance & High Quality**
- **Full Features for more assurance**
- **Multiple build-in protocol enhanced connectivity**
- **Various mounting and accessories enabled flexible Installation.**



# In Summary: “Conservative Design”

- **DynaHawk™ 701 Series (DH701)**
  - ✓ Indoor Integrated High Speed Dome Cameras
  - ✓ Compact and lightweight dome
  - ✓ Target market: supermarkets, gyms, airports, stations, casinos, hotels, buildings ...
  
- **DynaHawk™ 801 Series (DH801)**
  - ✓ Outdoor Integrated High Speed Dome Cameras
  - ✓ For half-outdoor and outdoor installations
  - ✓ Target market: warehouse, streets, parks, amusement parks, beaches, schools, stations...





# Key Features

- **Precise and Accurate Tracking**
  - ✓ **Digital Image Flip**
  - ✓ **Angle Adjustment**
  - ✓ **Speed By Zoom**
  - ✓ **Pan 360° Endless**
  - ✓ **Pan driver accuracy of 0.225**
  - ✓ **Preset speed up to 400°/sec.**
  - ✓ **Preset Position/Auto-Pan**
  - ✓ **Sequence/ Cruise**



# Digital Image Flip Function

- 180° Auto Image Flip
- Fast and Convenient
- Offers non-stop tracking
- Reduces wear and tear as compared to traditional mechanical flip technology
- Also Support Mechanical 180° Flip



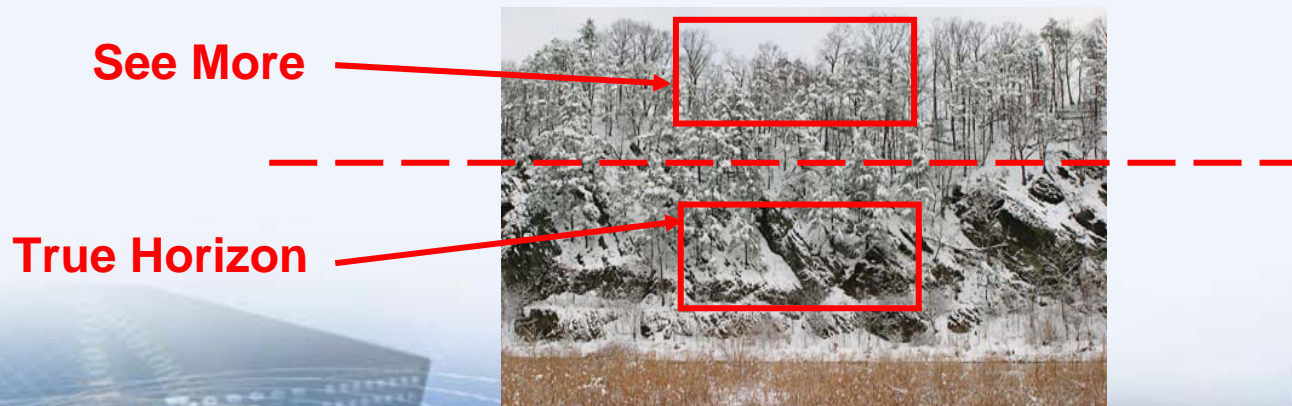
- Flip function enables users to track an object continuously when it passes through under dome camera.

# See More for True Horizon

- Tilt angles from  $-10^{\circ}$  to  $+190^{\circ}$



- Most cameras won't be able to see beyond the True Horizon when zooming in.





# Variable Speed, Fast Patrol

- **Speed By Zoom**

- Pan & Tilt proportional to Zoom Ratio**

- A special feature enabling users to view an object more precisely, the speed of pan and tilt will be slower as the camera zoom in.

- **Preset Speed**

- Up to 400°/sec with driver accuracy of 0.225°.**

- Enhanced fast and accurate object tracking capability and user friendly operation.



# Automatic Tracking Features

- **256 Preset Points:** memorize a specific locations for quick and convenient operation.
- **8 Sequence:** Switches among a set of preset points, and display the image in sequence.
- **4 Auto-Pan:** Tracks (determined by computer calculation) between two preset points.
- **1 Cruise:** User doesn't need to set any preset points. Camera will memorize the track.  
(beware of the memory space )



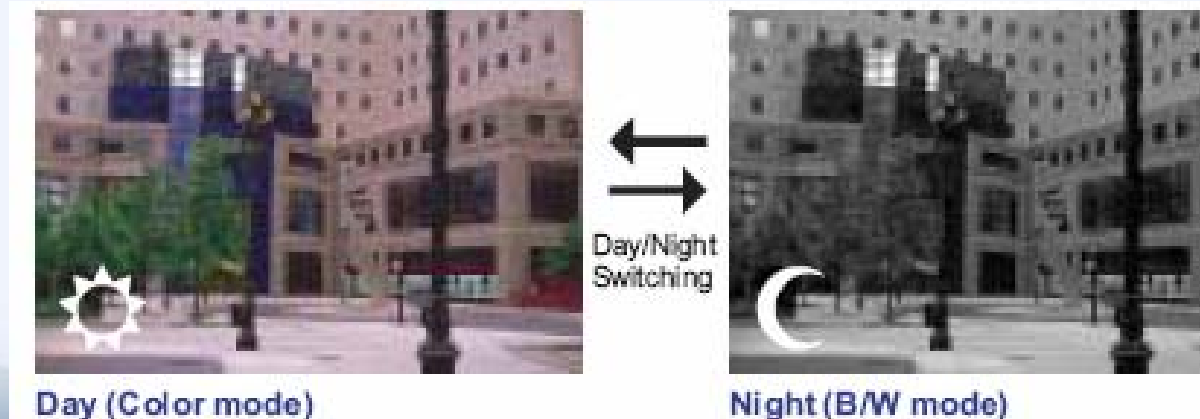


# Key Features

- **Low-Light Applications**
  - ✓ **Day & Night Function**
  - ✓ **Minimum illumination 0.01 Lux**
  - ✓ **Digital Slow Shutter**
  - ✓ **Electronic Shutter**
  - ✓ **Auto Exposure**

# Day & Night Function

- The Internal circuit will decide to remove the “IR Cut Filter” according to its threshold value of light condition.
- Enabled the dome to catch images 24hours.
- The video image will change to B/W or single color as the IR cut Filter is removed.



# AE (Auto Exposure)

- Various AE modes allows video signal to output the optimum image for subjects from low light conditions to high conditions.



- **Auto** mode: the camera's IRIS and AGC control circuits work together automatically to compensate the light exposure of CCD sensor, in order to get consistent video output level.
- **Manual** mode: users can select one of the three options as the prior, while the other two are rendered complementary, condition to obtain the best output image.



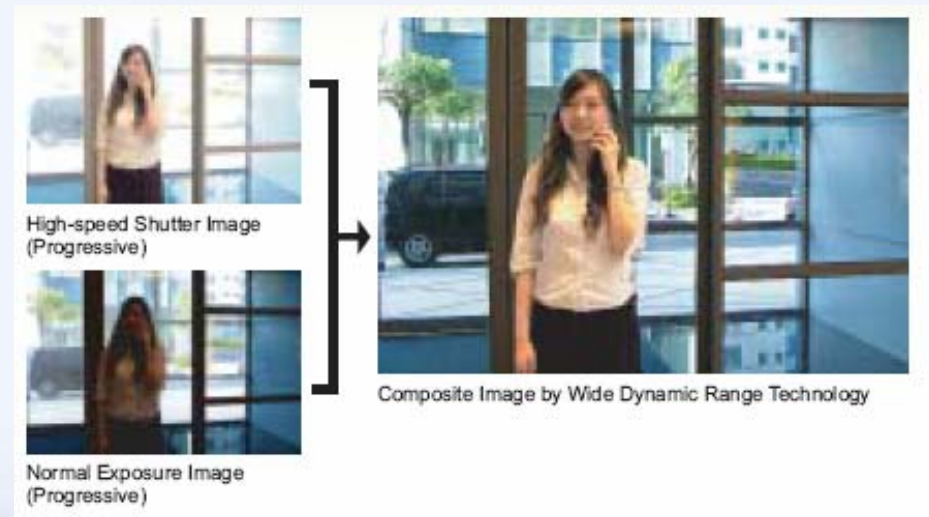
# Key Features

- **Perfect Contrast Solution**
  - ✓ **Wide Dynamic Range (K Module)**
  - ✓ **White Balance Compensation**
  - ✓ **Backlight Compensation**
  - ✓ **Auto Gain Control**
  - ✓ **Auto Iris Control**



# WDR Function --- K Model

- Enable the dome to catch detailed information from the dark part without any saturation from the bright part, and improves image quality and video performance under simultaneous indoor and outdoor light conditions.



# White Balance Compensation

- Calibrate a camera's color response to take into account different color temperatures of light.
- Define the lighting conditions and ensures image quality.
- Failure to white balance could result in an unsightly, unnatural color cast.



**Without white balance**



**After white balance**

# Backlight Compensation

- **BLC** (Backlight compensation)

indicates the image sensor's ability to automatically adjust in conditions where lighting is from behind the camera to deliver the sharpest and highest quality video image.



- When Camera with WDR activated, the BLC function will turn off automatically.



# Other Key Features

- Home Function
- Scheduling Function
- Motion Detection
- Privacy Masking Function
- Multiple Protocols
- Easy Installation



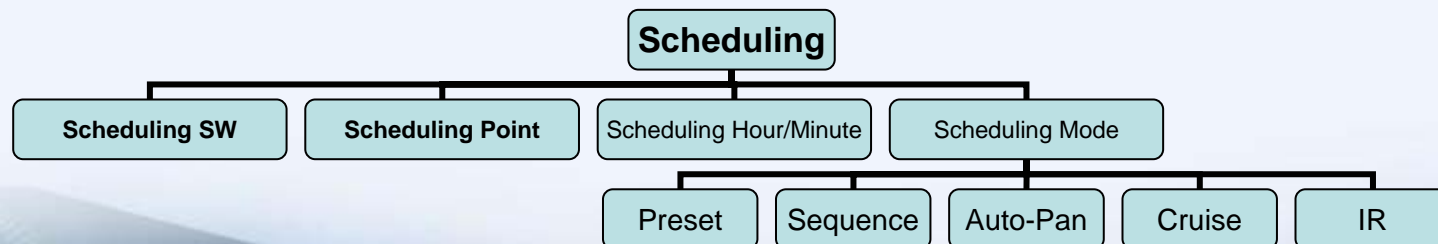
# Home & Scheduling

## Home Function

- Dome camera can come back to a specified preset position or function (Auto-pan/Sequence/Cruise) when the user stops to control the camera for a while.

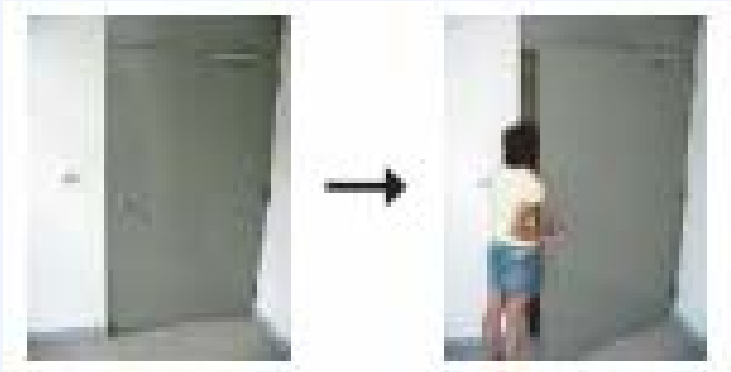
## Scheduling Function

- With this function, users are available to allocate different preset position or function (Auto-pan /Sequence/Cruise) during different period of time.



# Motion Detection---E/F/U Model

- This function instructs the camera to detect movement within the monitoring area and then send an alarm signal

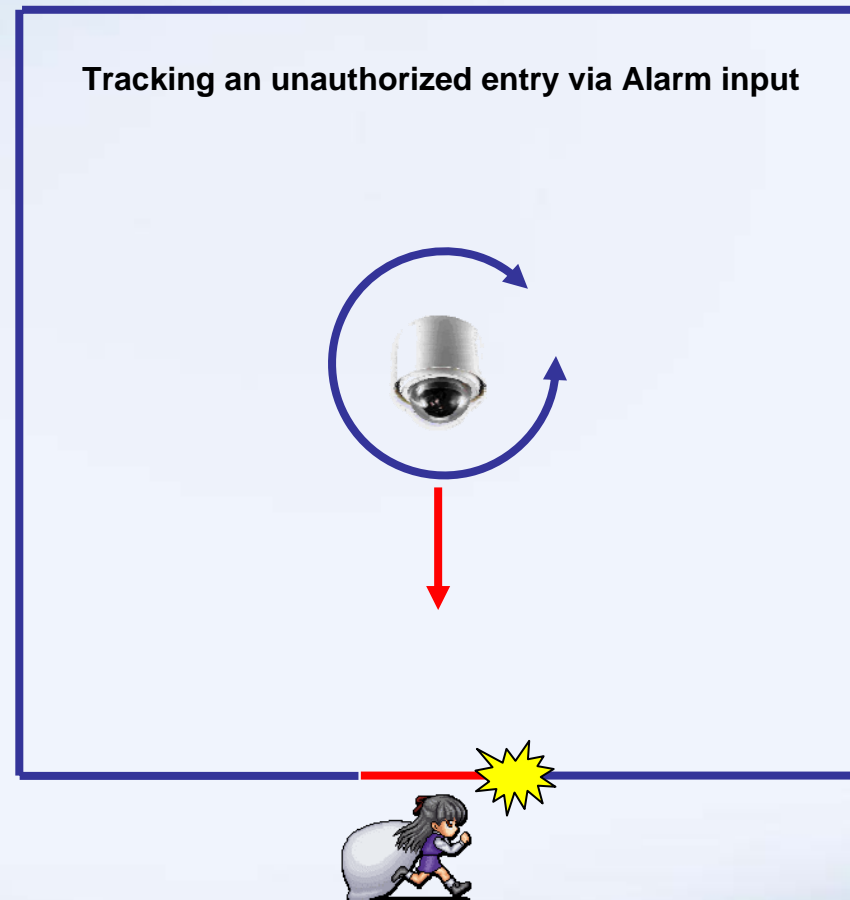


## DETECT MODE:

- **INT. FOCUS---** internal focus position  
Set the alarm condition as focus movement is detected.
- **FIX FOCUS---** fixed period of time  
When focus does not move for the fixed period of time, the focus position is memorized and the alarm condition is cleared.
- **INT. AE ---** internal AE level  
When AE movement is detected, the alarm condition is set.
- **FIX AE**  
When AE value changes, the alarm condition is set.

# Alarm Tracking Features

- **Captures events as they happen**
  - ✓ Preset
  - ✓ Sequencing
  - ✓ Cruise
  - ✓ AutoPan
- **Tracking can also be done via DVR's relay**
  - ✓ Motion
  - ✓ Video Loss
  - ✓ Alarm Input



# Privacy Masking

- With Removable IR Cut Filter, the Integrated High Speed Dome utilizes infrared to increase optical sensitivity and security at night.
- E/F/U Model supports Max 24 masking points.
- R&K Model supports Max 8 masking points.







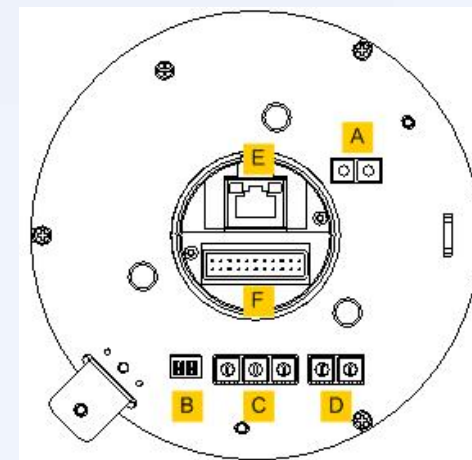
# More Compatibility

- A large set of build-in protocols provide connectivity with other brand CCTV products.
- Build-in Protocols:
  - ✓ DSCP
  - ✓ Pelco P & D,
  - ✓ VCL,
  - ✓ Philips
  - ✓ AD, AD-422

# Easy Installations

- Simple Switch Definition
- One Cable
- Easy cable connection

A	Reserved
B	RS-485 Setting
C	Dome ID Setting
D	Dome Control Protocol
E	RJ-45 Connector (for Ethernet IP function)
F	22-Pin Connector



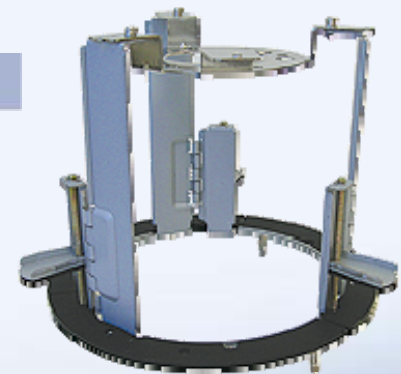
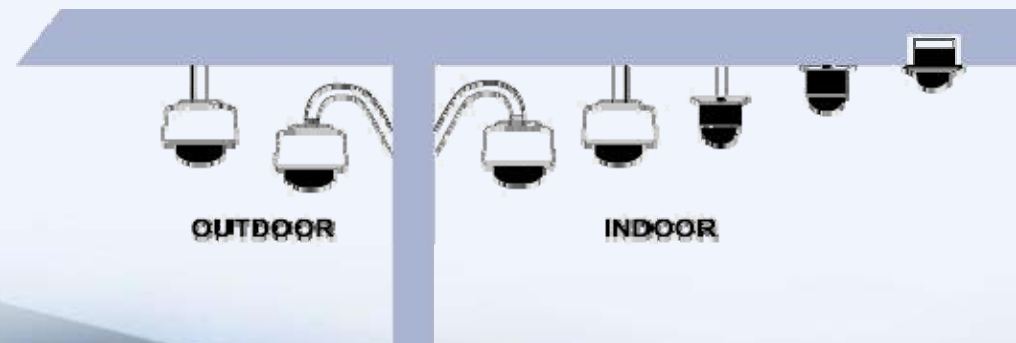


# Outdoor Application

- **Weather Resistant Housing**
  - ✓ International IP 66 Standard
- **Build-in Heater and Fan**
  - ✓ Under  $-7^{\circ}$ , the heater will turn on automatically.
  - ✓ Over  $+35^{\circ}$ , the fan will turn on automatically.
- **Sunshield Housing**
  - ✓ Solves harsh weather issues and ensures performance.
- **Vandal Proof Cover**
  - ✓ Protect the dome from violations

# Flexible Installations

- Support various mounting and accessories
- Hard Ceiling & In-ceiling
- Straight Tube and Gooseneck
- Various Corner Mounting
- Various Pole Mounting



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# Mounting Kits: D77H0X series

- Ceiling Mount
- Ceiling Panel
- Corner Standard Mounting
- Pole Direct Mounting
- Stainless Straps
- Cutter for Stainless Straps



# Pendant Kits: D77H0X series

- Gooseneck Tube



- Straight Tube



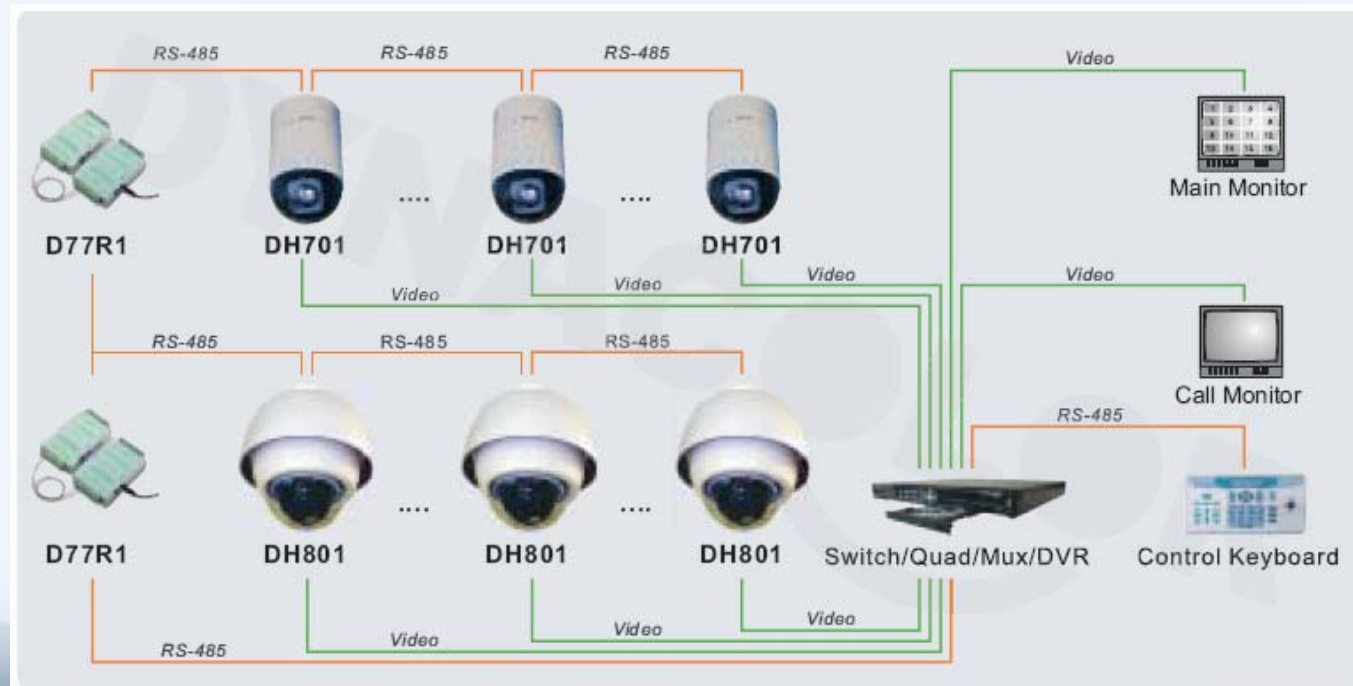


# High Speed Dome Models

Features	R	E	F	K	U
Optical Zoom	22x	18X	18X	23x	26x
Digital Zoom	12x	12X	12X	12x	12x
Min Illumination	1 lux	0.7lux	0.01 lux	0.01 lux	0.01 lux
Presets	256	256	256	256	256
Sequence	8	8	8	8	8
Auto-pan	4	4	4	4	4
Cruise	1	1	1	1	1
Motion Detection	-	Yes	Yes	-	Yes
Privacy Mask	-	24	24	8	24
Day/Night	-	-	Yes	Yes	Yes
Digital Slow Shutter	-	Yes	Yes	Yes	Yes
Digital Flip (180°)	-	Yes	Yes	Yes	Yes
WDR	-	-	-	Yes	-

# Low Maintenance System

- Fully integrated with our entire CCTV product lines; DVRs, Control Keyboards, accessories.





# Optional Accessories

- **Controller Keyboard**



(D7313 & D7312)

- **D77R1---RS-485 signal repeater**
- **D77R2---RS-232 to RS-485 converter**
- **D77R3---Bi-Phase protocol decoder**





# Your Total Solution with DynaColor...

- DynaGuard™ 500 Series

- ✓ Integrated Speed Dome Controls
- ✓ M-LPEG Compression



- DynaGuard™ 300 Series

- ✓ Integrated Speed Dome Controls
- ✓ Wavelet Compression
- ✓ 9chs, 16 chs



- DynaGuard™ 200 Series

- ✓ Compact and Versatile MEG-4 DVR
- ✓ 4chs, 8chs, 16chs



# Thank You

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