



**American Dynamics**

*A Tyco International Company*

# Discover 300 Series

## 600 TVL Indoor and Outdoor

### Vandal-Resistant Mini-Dome Cameras



#### Features That Make a Difference:

- 3-9mm or 9-22mm varifocal auto iris lens
- 3-axis gimbal with 360° pan provides flexibility in scene selection
- Digital noise reduction corrects imperfections on an image
- Auto White Balance finds best settings for the clearest images
- High-impact, vandal-resistant housing retains shape even after forceful impact (Outdoor only)
- Quick install adapter included for simple flush mounting options (Indoor only)
- Day/Night switching for low light conditions
- Eight programmable privacy zones
- 12VDC/24VAC

The Discover 300 Series Mini-Dome Cameras, both indoor and outdoor, offer an attractive price/performance ratio by providing higher resolution images and accurate color rendition to budget-conscious customers.

Digital Signal Processing (DSP), combined with 600 TVL on a 1/3" Format Interline CCD sensor, delivers clear picture quality typically available only from more expensive models. These mini-dome cameras offer backlight compensation (BLC), automatic gain control (AGC), auto iris and Auto White Balance.

An advanced pivoting axis allows you to position the camera at exactly the angle you need whether wall or ceiling mounted. Optimal white balance is achieved through pre-defined or user customized settings to provide the clearest possible images. Low light sensitivity renders sharp images in scenes as dim as 0.5 lux.

With up to eight data privacy zones, you can configure the camera to conceal private areas in the camera's field of view such as areas that are not subject to surveillance.

The mini-dome cameras feature a varifocal auto iris lens and a 3-axis gimbal for a full 360° rotation pan, and 90° of tilt axis for maximum flexibility in scene selection. These cameras are compatible with wall and ceiling mounting options with no additional hardware necessary, and are compatible with previously used Discover camera mounts.

The outdoor mini-dome includes a high-impact, vandal-resistant dome housing built to withstand the harshest environments. The camera housing is IP66-rated for complete protection against dust and other debris, and against water damage. An optional heater provides extra protection in cold weather environments.

These cameras are extremely reliable, easy-to-install, and designed for areas where a mixture of lighting conditions present unique challenges.

## Specifications

### Operational

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| Imager                     | 1/3" Format Interline CCD sensor                          |
| Horizontal Resolution      | 600 TVL                                                   |
| Active Pixel Count (H x V) |                                                           |
| NTSC                       | 768 x 494                                                 |
| PAL                        | 752 x 582                                                 |
| Lens (Varifocal Auto Iris) | 3-9mm: F1.2 or 9-22mm: F1.4                               |
| Scanning Frequency         | 2:1 Interlace                                             |
| Min. Scene Illumination    | 0.55 Lux (50IRE, F=1.4, AGC max.)                         |
| Iris Control               | DC auto                                                   |
| S/N Ratio                  | 48 dB (100 IRE)                                           |
| Synchronization            | Internal                                                  |
| Shutter Speed              | MES 1/60 (NTSC)/MES 1/50 (PAL), FLK, 1/250-1/100000, Auto |

### Controls

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| AGC                      | Low, Middle, High, Off                                                                                        |
| AGC Dynamic Range        | 70 IRE-100 IRE                                                                                                |
| AES                      | Auto luminance control 1/60-1/100000 sec. max. (NTSC)<br>Auto luminance control 1/50-1/100000 sec. max. (PAL) |
| BLC                      | 2 Zone On, Off, HLC                                                                                           |
| White Balance            | Auto                                                                                                          |
| Auto White Balance Range | ATW1 (2700K-9700K), ATW2 (2000K-20000K), AWC, Manual                                                          |
| D/N Control              | Auto, Color, B/W, Ext                                                                                         |
| Brightness               | 0-255 Level                                                                                                   |
| Sharpness                | 0-31 Level                                                                                                    |
| DWDR                     | On, Off                                                                                                       |
| Noise reduction          | On, Off                                                                                                       |
| Privacy Zones            | Eight programmable                                                                                            |
| Mirror                   | On, Off                                                                                                       |
| On-screen Display        | On, Off                                                                                                       |

### Connectors

|                        |            |
|------------------------|------------|
| Composite Video Output | BNC        |
| Lens Mode              | DC, Manual |

### Electrical

|                   |                                       |
|-------------------|---------------------------------------|
| Voltage           | DC 12V $\pm$ 10% and AC 24V $\pm$ 20% |
| Power Consumption | 2.6W (max.)                           |

### Mechanical

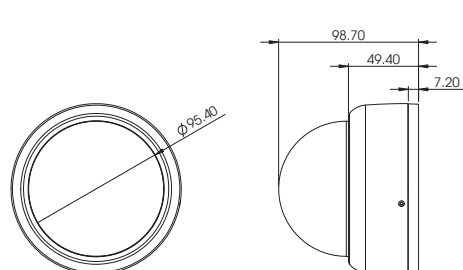
|                    |                                   |
|--------------------|-----------------------------------|
| Dimensions (D x H) |                                   |
| Indoor             | 120.2 x 98.5 mm (4.7 x 3.9 in)    |
| Outdoor            | 136 x 94.2 mm (5.35 x 3.7 in)     |
| Weight             |                                   |
| Indoor             | 250g (0.551lbs)                   |
| Outdoor            | 530g (1.17lbs)                    |
| Housing Material   | Polycarbonate                     |
| Housing Color      |                                   |
| White              | RAL 9003, Pantone® 705            |
| Black              | RAL 9017, Pantone Processed Black |

### Environmental

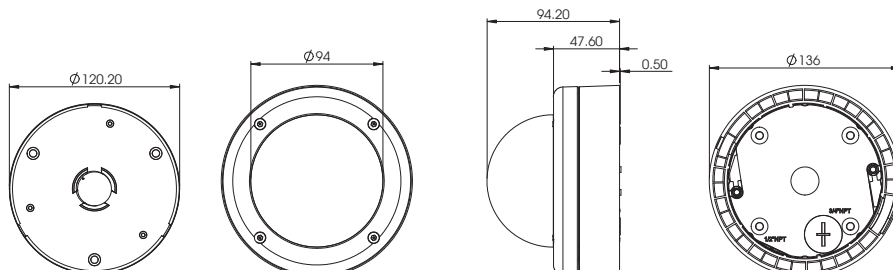
|                         |                                |
|-------------------------|--------------------------------|
| Operational Temperature |                                |
| Without Optional Heater | -10°C to 50°C (14°F to 122°F)  |
| With Optional Heater    | -40°C to 50°C (-40°F to 122°F) |
| Storage Temperature     | -20°C to 60°C (-4°F to 140°F)  |
| Relative Humidity       | 90% (non condensing)           |

### Regulatory

|           |                                                       |
|-----------|-------------------------------------------------------|
| IP Rating | IP66                                                  |
| Emissions | FCC: Part 15, Class B<br>CE: EN61000, Class B         |
| Immunity  | CE: EN50130-4                                         |
| Safety    | NTSC: UL60950 and CSAC22.2 No. 60950<br>PAL: IEC60950 |



Indoor Dome Dimensions



Outdoor Dome Dimensions

## Ordering Information

| Brand | Camera | Series | Dome | Color                  | Environment               | Bubble                  | Lens                                        | Format              |
|-------|--------|--------|------|------------------------|---------------------------|-------------------------|---------------------------------------------|---------------------|
| AD    | CA     | 3      | D    | W = White<br>B = Black | I = Indoor<br>O = Outdoor | T = Tinted<br>C = Clear | 2 = 3-9mm Varifocal<br>3 = 9-22mm Varifocal | N = NTSC<br>P = PAL |

## Accessories

| Model   | Description                      |
|---------|----------------------------------|
| ADCAHTR | Heater Kit for Outdoor Mini-Dome |

## Related Products



## Approvals



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