

# Discover 600 Series Box Camera



Camera shown with lens attached\*

## Features That Make a Difference:

- 600 model includes 540 TVL with Night-Saver mode and the 601 model includes True Day/Night with moving mechanical IR cut filter
- Available in 24 VAC/12 VDC NTSC, 24 VAC/12 VDC PAL or mains 230 VAC PAL
- Superior low-light performance
- Auto white balance (AWB) adjusts for accurate colors across a multitude of lighting conditions
- Automatic gain control (AGC), automatic electronic shutter (AES), and backlight compensation (BLC)
- Line-lock or internal synchronization
- Compatible with CS lenses and with C lenses with included adapter ring, video, or DC auto iris versions, including choice of IR corrected, vari-focal lenses for use with True Day/Night camera models
- Available as camera pre-packs for easy ordering and installation
- 601 model also includes:
  - Manual shutter mode
  - Extended AWB range
  - True Day Night Mechanism
  - D/N Normal/High options
  - Lens ALC Control
  - External D/N Control

The Discover Series Fixed Cameras are the ideal choice for applications requiring 540 TVL to provide super, high resolution images and true color rendition. Depending upon the scene and lighting conditions, the camera offers AWB, AGC, AES, and BLC controls which you can set to optimize image performance. The Night-Saver mode automatically switches the cameras to B/W in scenes with less lighting to provide you with better low-light performance.

The 601 model includes a moving mechanical IR cut filter that provides True Day/Night functionality and high resolution for daylight and lit indoor applications. When light levels drop, the IR cut filter is automatically removed and switches from color to B/W to capture images in very low light. These cameras feature internal and phase adjustable line-lock options for “roll-free” switching. The cameras are available in NTSC or PAL formats with 24 VAC/12 VDC voltages to meet a variety of application requirements.

These cameras are extremely reliable, easy-to-install, and designed for use in an array of different applications, and are ideally suited for areas where high performance in a variety of lighting conditions is required.

Super High Resolution Cameras			True Day/Night Cameras	
	ADCD600-X0001 (NTSC) ADCD600-X0002 (PAL)	ADCD600-X0004	ADCD601-X0001 (NTSC) ADCD601-X0002 (PAL)	ADCD601-X0004
<b>Operational</b>				
Imager	Interline Transfer 1/3-inch CCD	Interline Transfer 1/3-inch CCD	Interline Transfer 1/3-inch CCD	Interline Transfer 1/3-inch CCD
Video Output	1.0 Vp-p/75Ω, Composite	1.0 Vp-p/75Ω, Composite	1.0 Vp-p/75Ω, Composite	1.0 Vp-p/75Ω, Composite
Active Pixel Count (NTSC)	768 (H) x 494 (V)	N/A	768 (H) x 494 (V)	N/A
Active Pixel Count (PAL)	752 (H) x 582 (V)	752 (H) x 582 (V)	752 (H) x 582 (V)	752 (H) x 582 (V)
Min Scene Illumination (Color Mode)	.3 lux (50IRE, F1.4 lens, AGC off)	.3 lux (50IRE, F1.4 lens, AGC off)	.3 lux (50IRE, F1.4 lens, AGC off)	.3 lux (50IRE, F1.4 lens, AGC off)
Min Scene Illumination (B&W)	.2 lux (50IRE, F1.4 lens, AGC off)	.2 lux (50IRE, F1.4 lens, AGC off)	.1 lux (50IRE, F1.4 lens, AGC off)	.1 lux (50IRE, F1.4 lens, AGC off)
Horizontal Resolution	540 TVL	540 TVL	540 TVL	540 TVL
Auto Iris Lens Type	Video Iris/DC Iris	Video Iris/DC Iris	Video Iris/DC Iris	Video Iris/DC Iris
Backlight Compensation	On/Off	On/Off	On/Off	On/Off
Automatic Gain Control	Normal/Turbo	Normal/Turbo	Normal/Turbo	Normal/Turbo
Synchronization	Internal/Line-lock	Internal/Line-lock	Internal/Line-lock	Internal/Line-lock
Auto White Balance	Yes	Yes	Yes	Yes
AWB Range	Standard Range: 2700°K ~ 9700°K Extended Range: N/A	Standard Range: 2700°K ~ 9700°K Extended Range: N/A	Standard Range: 2700°K ~ 9700°K Extended Range: 2000°K ~ 18000°K	Standard Range: 2700°K ~ 9700°K Extended Range: 2500K~15000K per Technical Spec
Auto Electronic Shutter	Auto Luminance Control: 1/60 (1/50) ~ 1/100000 sec Max.	Auto Luminance Control: 1/60 (1/50) ~ 1/100000 sec Max.	Auto Luminance Control: 1/60 (1/50) ~ 1/100000 sec Max.	Auto Luminance Control: 1/60 (1/50) ~ 1/100000 sec Max.
Manual Electronic Shutter	N/A	N/A	Selectable from 1/60 (1/50) to 1/100 K seconds	Selectable from 1/60 (1/50) to 1/100 K seconds
S/N Ratio	48 dB	48 dB	48 dB	48 dB
<b>Connectors</b>				
D/N Switch	-	-	Connector is 2-pin Push Lock Terminal Block	-
Input Power	Power Input Terminal	AC Mains Power Input Connector	Power Input Terminal	AC Mains Power Input Connector
Composite Video	BNC	BNC	BNC	BNC
DC Iris Connector	4-pin Square	4-pin Square	4-pin Square	4-pin Square
Video Iris Connector	3-pin Push Lock Terminal Block	3-pin Push Lock Terminal Block	3-pin Push Lock Terminal Block	3-pin Push Lock Terminal Block
<b>Electrical</b>				
AC Voltage	24 VAC (+20%, -20%)	230 VAC (100 to 240 VAC)	24 VAC (+20%, -20%)	230 VAC (100 to 240 VAC)
DC Voltage	12 VDC (+10%, -10%)	N/A	12 VDC (+10%, -10%)	N/A
Power Consumption	4.5 watts Max	4.5 watts Max	4.5 watts Max	4.5 watts Max
<b>Physical</b>				
Lens Mount	C/CS	C/CS	C/CS	C/CS
Camera Mount	1/4-inch (top and bottom)	1/4-inch (top and bottom)	1/4-inch (top and bottom)	1/4-inch (top and bottom)
Dimensions (WxHxL) mm	66 mm x 57 mm x 121 mm	66 mm x 57 mm x 121 mm	66 mm x 57 mm x 121 mm	66 mm x 57 mm x 121 mm
Dimensions (WxHxL) in	2.6 in x 2.24 in x 4.76 in	2.6 in x 2.24 in x 4.76 in	2.6 in x 2.24 in x 4.76 in	2.6 in x 2.24 in x 4.76 in
Unit Weight	251.6 g	251.6 g	251.6 g	251.6 g
Shipping Weight	415.99 g	415.99 g	415.99 g	415.99 g
Body Color	White	White	White	White
<b>Environmental</b>				
Operating Temp	-10° to 50° C (14° to 122° F)	-10° to 50° C (14° to 122° F)	-10° to 50° C (14° to 122° F)	-10° to 50° C (14° to 122° F)
Storage Temp	-20° to 60° C (-4° to 140° F)	-20° to 60° C (-4° to 140° F)	-20° to 60° C (-4° to 140° F)	-20° to 60° C (-4° to 140° F)
Humidity	<90% RH (noncondensing)	<90% RH (noncondensing)	<90% RH (noncondensing)	<90% RH (noncondensing)
<b>Regulatory</b>				
Emissions	FCC Part 15 Class B ICES-003 EN61000-6-3	EN61000-6-3	FCC Part 15 Class B ICES-003 EN61000-6-3	EN61000-6-3
Immunity	EN50130-4	EN50130-4	EN50130-4	EN50130-4
Safety	UL60950-1 CSA C22.2 EN60065	EN60950-1	UL60950-1 CSA C22.2 EN60065	EN60950-1

## Related Products



ADTVR



Intellex



HDVR



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## Approvals

