



ADCSHR2412 Series
Camera shown with lens attached*



ADCTDN2412 Series
Camera shown with lens attached*

ADCSHR 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 detail performance. 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. A 230 VAC mains version is also available in a PAL format.

ADCTDN cameras offer the same features as the ADCSHR series but also include a moving mechanical IR cut filter that provides True Day/Night functionality. For scenes with typical lighting such as daylight or lit indoor applications, the camera provides a 540 TVL super, high resolution image. When light levels drop, the camera automatically removes its' IR cut

540 TVL Super High Resolution Fixed Cameras and 540 TVL True Day/Night Fixed Cameras

Features That Make a Difference:

- 540 TVL models with Night-Saver mode and True Day/Night models 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)
- Phase adjustable line-lock or internal synchronization
- Compatible with C/CS lenses, 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
- Day/Night models also include:
 - Focus adjust mode for ease of installation and focus accuracy
 - On-screen menu display for easy programming (such as camera titles)
 - Monitor mode to optimize output for CRT or LCD displays
 - Advanced pixel correction
 - Factory default settings
 - Auxiliary input and output
 - Selectable 4 zone BLC
 - Manual shutter mode

filter and switches from color to B/W to capture images in very low light. This action can also be triggered manually via an auxiliary input or can trigger an auxiliary output to turn on optional accessories such as IR illuminators. ADCTDN cameras also offer many advanced, easy-to-use features, like on-screen menu programming with default settings. Advanced pixel correction, focus adjust mode for focus accuracy, selectable four zone BLC, manual shutter mode, and a monitor mode to optimize for CRT or LCD displays are also included. For a total solution, IR corrected lenses are available for use with the ADCTDN series.

Both series of American Dynamics cameras are extremely reliable, easy-to-install, and designed for use in a wide variety of applications. These cameras are ideally suited for use in areas where high performance in a variety of lighting conditions is required.

Super High Resolution Cameras			True Day/Night Cameras	
	ADCSHR2412N ADCSHR2412P	ADCSHR0230P	ADCTDN2412N ADCTDN2412P	ADCTDN0230P
Operational				
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 (H x V)	NTSC: 768 x 494	N/A	NTSC: 768 x 494	N/A
	PAL: 752 x 582	PAL: 752 x 582	PAL: 752 x 582	PAL: 752 x 582
Minimum Scene Illumination	0.7 lux, f1.2, AGC on	0.7 lux, f1.2, AGC on	0.4 lux, f1.2, AGC on	0.4 lux, f1.2, AGC on
	Color Mode	0.5 lux, f1.2, AGC on	0.02 lux, f1.2, AGC on	0.02 lux, f1.2, AGC on
Black & White Mode				
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	4 zones/Off	4 zones/Off
Synchronization	Internal/Line-lock	Internal/Line-lock	Internal/Line-lock	Internal/Line-lock
White Balance	ATW or Manual mode	ATW or Manual mode	ATW/ATW wide	ATW/ATW wide
	(adjustable)	(adjustable)	AWC (one touch)	AWC (one touch)
S/N Ratio	-50 dB	-50 dB	Manual mode (adjustable)	Manual mode (adjustable)
			-50 dB	-50 dB
Connectors				
Input Power	2-pin Screw Terminal	Line cord with Euro plug	2-pin Screw Terminal	Line cord with Euro plug
Composite Video	BNC	BNC	BNC	BNC
Auxiliary Input/Output	N/A	N/A	2-pin Push Terminal	2-pin Push Terminal
DC/Video Auto Iris	4-pin Square	4-pin Square	4-pin Square	4-pin Square
Electrical				
AC Voltage	NTSC: 24 VAC (+20%, -20%) @ 60 Hz	N/A	NTSC: 24 VAC (+20%, -20%) @ 60 Hz	N/A
	PAL: 24 VAC (+20%, -20%) @ 50/60 Hz	PAL: 230 VAC (220 to 240 VAC) @ 50/60 Hz	PAL: 24 VAC (+20%, -20%) @ 50/60 Hz	PAL: 230 VAC (220 to 240 VAC) @ 50/60 Hz
DC Voltage	12 VDC (+10%, -10%)		12 VDC (+10%, -10%)	
Power Consumption	4.7 watts (380 mA)	57 mA	4.8 watts (400 mA)	75 mA
Physical				
Lens Mount	C/CS	C/CS	C/CS	C/CS
Camera Mount	1/4-inch x 20 (top or bottom)	1/4-inch x 20 (top or bottom)	1/4-inch x 20 (top or bottom)	1/4-inch x 20 (top or bottom)
Dimensions (W x H x L)	52 x 58 x 126 mm	67 x 63 x 126 mm	67 x 63 x 126 mm	67 x 63 x 126 mm
	(2.0 x 2.28 x 4.96 in)	(2.56 x 2.48 x 4.96 in)	(2.56 x 2.48 x 4.96 in)	(2.56 x 2.48 x 4.96 in)
Unit Weight	370 g (0.82 lbs)	713 g (1.57 lbs)	480 g (1.06 lbs)	700 g (1.54 lbs)
Shipping Weight	600 g (1.32 lbs)	1.0 kg (2.2 lbs)	700 g (1.54 lbs)	1.1 kg (2.42 lbs)
Body Color	Light Gray (Pantone 427c)	Light Gray (Pantone 427c)	Light Gray (Pantone 427c)	Light Gray (Pantone 427c)
Environmental				
Operating Temperature	-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 Temperature	-30° to 60°C (22° to 140°F)	-30° to 60°C (22° to 140°F)	-30° to 60°C (22° to 140°F)	-30° to 60°C (22° to 140°F)
Humidity	<90% RH (noncondensing)	<90% RH (noncondensing)	<90% RH (noncondensing)	<90% RH (noncondensing)
Regulatory				
Emissions	NTSC: FCC Part 15 Class B	N/A	NTSC: FCC Part 15 Class B	N/A
	ICES-003	N/A	ICES-003	N/A
	PAL: EN61000-6-3	EN61000-6-3	PAL: EN61000-6-3	EN61000-6-3
		EN61000-3-2, EN61000-3-3		EN61000-3-2, EN61000-3-3
Immunity	PAL: EN50130-4	EN50130-4	PAL: EN50130-4	EN50130-4
Safety	NTSC: UL2044; CSA C22.2	EN60950-1	NTSC: UL2044; CSA C22.2	EN60950-1

To complete your camera solution with mounts, lenses, housings, accessories or pre-packs, please refer to our other product data sheets.

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

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