

Vandal Resistant Dome Cameras

(Model: XPD421DNV)



The XPD421DNV Colour, varifocal dome camera is designed for high risk applications. It offers very high resolution Colour 580TVL images and 0.002 lux low light sensitivity from its Sony 1/3" CCD sensor. It features Dynamic Night View, Smart DNR for disk saving and a Varifocal Auto Iris Lens. It is designed for internal or external use and can be ceiling or wall mounted. It is supplied with a Chameleon Cover which can be fitted over it to turn the colour of the dome from Black to White, or can be painted easily without affecting the warranty of the camera.

- ✘ Very High Resolution CCD sensor provides great quality Colour images in light levels of 0.002 lux and above
 - ✘ Discreet styling for unobtrusive low profile use
 - ✘ Tamper resistant and easy to clean as all moving parts are behind the dome cover
 - ✘ Sony 1/3" CCD Image Sensor for 580 TVL resolution images and 0.0002 lux low light sensitivity
 - ✘ Samsung DSP Chip & Xvision X3 DSP Software
 - ✘ 2.8 to 11.0mm Auto Iris Varifocal lens for 26° to 92° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation.
 - ✘ Dynamic Night View technology provides clear images without the need for IR LEDs down to 0.002 lux.
 - ✘ Smart DNR (Digital Noise Reduction) reduces the noise on the image when viewing in low lux environments.
 - ✘ 3-Axis mechanism for free lens rotation
 - ✘ Designed for internal use and ceiling mounting
 - ✘ Durable Corrosion Proof Metal Casing designed for internal or external use and 3-axis adjustment for wall or ceiling mounting
 - ✘ Supplied with a Chameleon Cover which can be fitted over it to turn the colour of the dome from Black to White, or can be painted easily without affecting the warranty of the camera.
 - ✘ 3 Year Manufacturers Warranty
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Feature Highlights

✘ For demanding security installations

The XPD421DNV is a vandal resistant dome camera for demanding security installations. Dynamic Night View, Smart DNR for disk saving and a Varifocal Auto Iris Lens enable it to operate in very low light conditions and its high resolution ensures superb performance and superior image quality. This Vandal Resistant IR dome is designed for use in challenging surveillance applications - such as large stores, airports, stadiums, casinos and ports - where the ability to see great detail is crucial.

✘ Discreet styling

Supplied with a Chameleon Cover which can be fitted over it to turn the colour of the dome from Black to White, or can be painted easily without affecting the warranty of the camera.

✘ No need for LEDs

Dynamic Night View technology provides clear images without the need for IR LEDs down to 0.002 lux, this is achieved by using Field Integration, please note due to way in which field integration works, whilst it is in operation the frame per second will reduce. The darker the scene the lower the frame per second.

✘ Save disk space using Smart DNR

Smart DNR (Digital Noise Reduction) reduces the noise on the image when viewing in low lux environments (like at night), this reduces the size of the image when being recorded by a DVR, resulting in a saving of disk space.

✘ Superior Image Quality

Backlight Compensation

While a camera's automatic exposure control tries to get the lightness of an image to appear as the human eye would see a scene, it can be easily fooled. Think of the case where a person walks into a fairly dark room with a flashlight in her hand and directs this flashlight to the camera. Although the light source is

quite small, it makes the camera believe the scene has become brighter and the camera's exposure control automatically adjusts to it, resulting in a darker image. To avoid this, a mechanism called backlight compensation is introduced. It strives to ignore small areas of high illumination, just as if they were not present at all. With backlight compensation, the image from the example above would have the same exposure regardless of whether the flashlight was present or not. The resulting image enables the person to be visually seen and identified. Without backlight compensation, the image would be too dark, and identification would be impossible.



Without Backlight Compensation



With Backlight Compensation

Automatic Gain Control

An electronic circuit that amplifies the video signal when the strength of the signal falls below a given value, resulting in a better quality video image.

Edge Enhancement

Image edge enhancement is utilised to strengthen the signal level on the edges and corners of the image, producing clearer, more distinct pictures.



Without Edge Enhancement



With Edge Enhancement

Other DSP Functions Supported

Automatic Electronic Iris
Automatic White Balance
Low Smear
Zero Colour Rolling
Super Dynamic Range

Dynamic Night View (Digital Slow Shutter)
DNR (Digital Noise Reduction)
Motion Detection
Privacy Zones

Quality Accessories, Added Functionality

High Grade Plug & Play Cables

20 or 40 metre High Grade Plug & Play Cable. For use with any camera requiring up to 1000mA power and up to 600 TVL resolution. Carries sound, picture & up to 12V DC 1250mA power together. Black colour.



Order Codes

20m Cable **Model: PNP20X**

40m Cable **Model: PNP40X**

Safe External Connections

Provides protection when connecting Plug & Play cables together or to a camera. Plugs & cables simply push through weatherproof grommets for quick & easy installation.



Order Code

Weatherproof Connection Box **Model: WPB**

Reliable Power Supply



Supplies power to cameras & accessories via plug & play cable. Has 300mA output. Recommended for use with cameras & accessories requiring up to 250mA.

Order Code

300mA Power Supply **Model: TP12300**

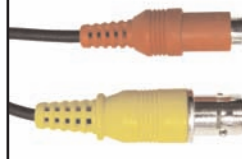
Alternative Views



Camera-Side



Camera-Back



Camera-Connections




Packaging



Package Contents

Specifications

Model Number	XPD421DNV
Picture	
Designed for	High Risk Applications
Weatherproof	Yes
Mount	Ceiling/Wall
Picture Type	Colour
Image Sensor	Sony 1/3" CCD
DSP	Xvision X3
Resolution	580 TVL
Low Light Response	0.002 Lux
Infra Red Nightvision Range	No
Backlight Compensation	Yes
Dynamic Range	No
Lens Type	2.8 to 11.0mm
Viewing Angle	26° to 92°
Auto or Electronic Iris	Yes
Varifocal	Yes
Zoom	No
Motorised Pan/Tilt	No
RS485 Control	No
Video Out	BNC Socket
Audio Out	No
Operating Voltage	12V DC 145mA
Warranty	3 Years

Colour 580 TVL Sony 1/3" CCD Vandal Resistant Varifocal Dome Camera

Model: XPD421DNV

www.x-vision.co.uk