

Long Range Nightvision Cameras

(Model: XPB700WDR)



The XPB700WDR camera is designed for high risk applications. It offers very high resolution images of 580 TVL in Colour mode and 700 TVL in B/W mode, with a low lux sensitivity of 0.0003 lux. It features Dynamic Night View, Super WDR, Smart DNR for disk saving and an Auto Iris Varifocal Lens. It is designed for internal or external use and can be wall mounted.

- ✘ Very High Resolution CCD sensor provides great quality Colour images in light levels of 0.0003 lux and above
 - ✘ Sony 1/3" CCD Image Sensor for 580 TVL resolution images and 0.0003 lux low light sensitivity
 - ✘ Samsung DSP Chip & Xvision X4 DSP Software
 - ✘ 5.0 to 50.0mm Auto Iris Varifocal lens for 6° to 49° 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 0.0003 lux.
 - ✘ Super WDR technology provides a clear overall picture even when strong backlight or bright spots are present.
 - ✘ Smart DNR (Digital Noise Reduction) reduces the noise on the image when viewing in low lux environments.
 - ✘ Designed for internal use and ceiling mounting
 - ✘ Durable Corrosion Proof Metal Casing designed for internal or external use
 - ✘ 3 Year Manufacturers Warranty
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Feature Highlights

✘ For demanding security installations

The XPB700WDR is a Long Range Nightvision Camera for demanding security installations. Dynamic Night View, Super WDR, Smart DNR for disk saving and a Varifocal Auto Iris Lens enable it to operate in difficult light conditions and its high resolution ensures superb performance and superior image quality. This Long Range Nightvision Camera 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.

✘ 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

Multi Zone 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)

Smart DNR (3D Digital Noise Reduction)

Motion Detection

Privacy Zones

Digital Image Stabilising

Super Wide Dynamic Range

Super High Resolution 700TVL B/W Mode

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



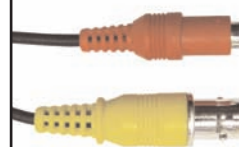
Camera-Side



Camera-Side



Camera-Back



Camera-Connections



Packaging

Specifications

Model Number	XPB700WDR
Picture	
Designed for	High Risk Applications
Weatherproof	Yes
Mount	Ceiling/Wall
Picture Type	Day/Night (B/W & Colour)
Image Sensor	Sony 1/3" CCD
DSP	Xvision X4
Resolution	700 TVL B/W 580TVL Colour
Low Light Response	0.0003 Lux
Infra Red Nightvision Range	Not sensitive to IR
Backlight Compensation	Yes
Dynamic Range	Yes (Super WDR)
Lens Type	5.0 to 50.0mm
Viewing Angle	6° to 49°
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 150mA
Warranty	3 Years

B/W 700TVL Colour 580 TVL Sony
1/3" CCD Long Range Nightvision Camera
Model: XPB700WDR

www.x-vision.co.uk