Xvision™

The Dome

HD IP Dome Camera with H264 compression, Power over Ethernet & Wide Angle Lens

(Model: X100D)

Easy to set up & use in your home or business premises

Powerful 64 Camera Viewing & Recording Software supplied

Watch your cameras from anywhere in the world using your mobile phone

HD

A High Definition IP Dome Camera that offers 3x the resolution of standard CCTV and IP CCTV cameras, perfect for unobtrusive use in Retail Premises, Restaurants, Bars, Offices, Hotel Lobbies etc. The camera features a tamper proof design, 3 axis internal bracket for flexible wall or ceiling mounting and amazing picture quality. Main features include:

- HD 1.3 Megapixel Image Sensor
- Audio input for audio recording and monitoring
- Secure remote viewing from anywhere in the world using a Windows PC, Mac or compatible Mobile Phone (including iPhone, Android, Nokia, Windows Mobile)
- Automatic Email Alerts or Audible Alarm when the camera detects motion
- Audio output for 2 way Audio communication
- DNR (Digital Noise Reduction) & Dynamic Night View
- H264 compression for up to 8x better performance than MJPEG & MPEG4 based IP cameras
- Power over Ethernet compatible
- Free 64 Camera Recording and Viewing software for Windows PC's (optional Mac compatible software available)
- 2 Year Warranty

Camera Performance

Resolution:

● The camera has a maximum resolution of 1280x1024 pixels, which is often referred to as HD (High Definition) or 1.3 Megapixel. It is suitable for high quality recognition and identification quality images.
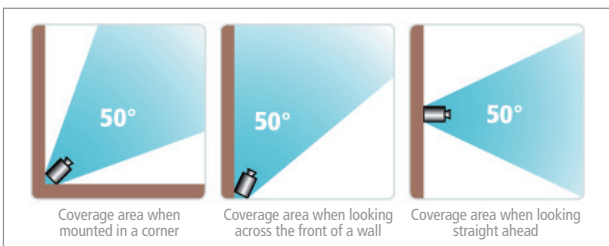

An example of the image resolution and type supported by the camera is highlighted above

Light Sensitivity:

● In good lighting the camera produces good quality colour images.

● In poor lighting it is still possible to view colour images, providing the area being watched has a light level above 0.1 lux (using the Dynamic Night View function, without this the lux level is 1.0). Examples of environments that have a light level above 0.1 lux are:

- Dawn and Dusk
- A Residential Road with Street Lighting
- A Bar or Nightclub

Lens:

● The camera is fitted with a 4.0mm lens. This lens provides a viewing angle of 50° for good quality detailed images.
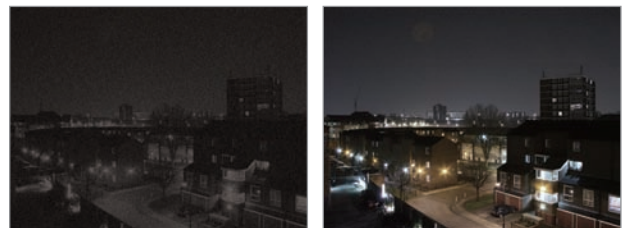

| Coverage area when mounted in a corner | Coverage area when looking across the front of a wall | Coverage area when looking straight ahead |

● Additional lenses are available for viewing angles of 27 to 115°

Other Picture Quality Enhancements:

● **DNR (Digital Noise Reduction)** - This feature removes noise from the camera picture, allowing the camera to product noise free images even in low light.

● **Dynamic Night View** - This feature reduces the shutter speed of the camera so more light enters the camera, allowing it to display bright colour image even in poor lighting conditions.

● **Brightness, Contrast. Colour and Sharpness control** for adjusting the camera image characteristics to obtain the best picture quality

● **Digital Zoom** for seeing extra detail

● **Vertical Flip and Mirror functions** for rotating the image if required

● **Full Screen function** for viewing the image full screen on your monitor

Main Features

Excellent Network Performance:

● The camera uses H264 compression to create efficient video streams that can be accessed over the local network or the internet without requiring large amounts of bandwidth. Resulting in a better picture quality and higher refresh rates than MJPEG and MPEG4 based IP cameras.

● A total of 13 Video Streams are available, including 2 Region Of Interest (which allow you to send portions of the whole camera image at a different resolution and speed to the whole image) streams, allowing the camera to provide the optimum image size and refresh rate for a variety of applications simultaneously.

● Video and Audio Multicasting for sending video and audio to a group of destinations simultaneously using the most efficient strategy

PC free operation:

● The camera does not need to be connected to a PC to operate, it can connect directly to a wired or wireless network or internet connection.

Remote Viewing & Recording:

● When connected to a local network or an internet connection the cameras can be accessed remotely by a:

- Windows PC - allowing you to:
  View live images
  Pan and Tilt the camera
  Zoom In to the image (digital)
  Configure the camera
  Listen to audio
  Make recordings
  Take snapshots

- Mac - allowing you to:
  View live images
  Pan and Tilt the camera
  Configure the camera
  Listen to audio (using QuickTime)
  Take snapshots

- Mobile Phone (including iPhone, Android, Nokia, Windows Mobile) - allowing you to:
  View live images
  Listen to Audio (Nokia and Windows Mobile only)
  Take snapshots

- 3GPP compatible device - allowing you to:
  View live images
  Listen to Audio

Remote (Across the LAN or Internet) Recording:

● Recordings can be made across a LAN or over the Internet (offsite) in the following ways:

- When logging in to the camera via a Windows PC
- Using a Windows PC running the free Multi Camera Software
- Using a Mac running the Mac Multi Camera Software (available to purchase)
- Using a compatible NVR
- Using a compatible Hybrid DVR
- Using the built in FTP function
- Using the built in HTTP file transfer function
- Using the SAMBA server file transfer function

Intelligent Motion Detection:

● The camera has built in intelligent motion detection, the camera will detect movement from 10 different zones and will allow you to specify the size of object it is looking for (eliminating any chance of false alarms).

● When it detects motion the camera can respond in the following ways:

- Send an Email Alert with video or snapshots of the image that triggered the motion detection
- Sound an Alarm if speakers are connected
- Send images via FTPP
- Send images via HTTP
- Send images to a SAMBA server
- Trigger the Alarm Output and any equipment connected to it, for example a Siren or Light Switch (additional relays etc... may be required for this function)

Email Alerts:

● The camera features Email Alerts, these are sent to the email address of your choice whenever the camera detects movement, along with a video or snapshot of what triggered the detection.

● This is a great function for being alerted of any intruders at your premises whilst you are away.

Alarm (Voice Alert):

● When speakers are connected to the camera the camera will make an Alarm noise through the speakers, to scare of intruders and let passers know that an intrusion is taking place.

Audio Input:

● The camera has an Audio Input for recording and monitoring sound from the location being watched.

2 Way Audio Communication:

● When speakers are connected to the camera it is possible to have a 2 way conversation from your Windows PC with someone that is near the camera. This function can be used to verify who people are, to warn of intruders or simply to have a conversation with staff or family.

Multiple Users:

● The camera supports multiple users with different rights, so you can setup Administrators who can change the camera settings and playback recordings and Guests who can view only.

Industrial Grade Access Security:

● Password Protection - To access the camera a user name and password is required, this ensures that your camera is secure and can be accessed by authorised users only.

● IP Filtering - It is also possible to specify which IP addresses are allowed to access the camera, further increasing the security of the camera.

Multi Camera Software:

● If you require permanent recording or want to record & view multiple cameras from a single PC, free Windows Multi Camera Software is provided for:

- Recording and viewing of up to 64 cameras on a single Windows PC
- The ability to view and record cameras from the local network from remote sites via the internet
- Smart (Object) Searching of recordings

● Mac compatible Multi Camera Software is also available for an extra charge.

Connectivity

Wired Networks:

● The camera supports wired networks.

Power over Ethernet:

● The camera is can be connected to Power over Ethernet networks.

DDNS:

● The camera supports DDNS for use in environments where a static external IP address is not available.

UPNP:

● The camera supports UPNP for easy plug & play setup.

Alarm Input & Output:

● The camera has an Alarm Input and an Alarm Output.

● The Alarm Input can be used to connect an external sensor like a PIR, when this is triggered the camera can:

- Send an Email Alert with video or snapshots of the image that triggered the motion detection
- Sound an Alarm if speakers are connected
- Send images via FTPP
- Send images via HTTP
- Send images to a SAMBA server
- Trigger the Alarm Output and any equipment connected to it, for example a Siren or Light Switch (additional relays etc. may be required for this function)

Design and Mounting

● The camera is designed to be tamperproof, unobtrusive and stylish, making it suitable for use in a variety of retail environments.

● The camera is designed for Wall or Ceiling mounting.

● The camera is suitable for indoor use only.

Specifications

Model: X100D

Image	

Type

Style	HD IP Dome Camera with H264 compression, Power over Ethernet & Wide Angle Lens
Weather Resistant	No
Vandal Resistant	No
Motorised Panning	No
Motorised Tilting	No
Digital Zoom	Yes (4x)
Audio	Audio Input for Microphone Audio Out for 2 way audio
Mounting Type	Wall or Ceiling
Product Dimensions (without bracket)	Width: 135mm, Height: 108mm, Depth: 135mm
Product Weight	0.32 Kg
Shipping Dimensions	Width: 260mm, Height: 140mm, Depth: 200mm
Shipping Weight	0.76 Kg
Warranty	2 Year Warranty

Camera

Image Sensor Type	1.3 Megapixel Digital HD Sensor
Image Sensor Resolution	1,310,720 pixels
Minimum Illumination	0.1 Lux (Dynamic Night View On), 1.0 Lux (Dynamic Night View off)
Night Vision	N/A
Other Features	DNR (Digital Noise Reduction) Dynamic Night View Automatic White Balance Automatic Gain Control Automatic Electronic Iris
Lens	4.0mm
Viewing Angle	50°

Performance

Video Compression	H264, MPEG4, MJPEG
Video Streams	11 Independent Streams + 2 Region Of Interest Streams
Stream Types	HTTP, RTSP, RTP, TCP, RTCP, 3GPP
Video Resolution & Frame Rates	160x120 (QQVGA) at up to 30 fps 320x240 (QVGA) at up to 30 fps 640x480 (VGA) at up to 30 fps 1280x1024 (SXGA) at up to 15 fps

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Specifications

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Image	

Networking

Network Connection	RJ45 Socket (10BASE-T / 100BASE-TX)
Wi-Fi Support	N/A
Network Protocols Supported	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, IGMP, SAMBA

Remote Access

Browser Support	Internet Explorer, Safari, Firefox
Mobile Phone Support	iPhone, Android, Nokia (Symbian), Windows Mobile
User Authentication	User Name & Password, IP Filtering
Simultaneous Viewers	Using Unicast: 20 Using Multicast: Unlimited

Power Requirements

Power over Ethernet	Yes
Operating Voltage	12V DC (UK Type power supply supplied)
Power Consumption	4W

Other Features

Easy Fit	Optional Xvision Ethernet over Mains adaptor required
Motion Detection	10 Independent Zones with Schedule & Object Size Filtering
Presets:	N/A
Guard Tours	N/A
Email Alerts	Yes
On Board Recording	N/A
Alarms	1 Input & 1 Output
Multi Camera Software	Yes - Included free for Windows XP, Vista & 7 - Available as an additional purchase for Mac OSX

Minimum PC Specifications for running the Multi Camera Software

Estimated Total Display & Recording FPS:	QVGA:	120	120 to 360	360 to 540	540 to 960	960+
	VGA:	30	30 to 90	90 to 135	135 to 240	240+
	SXGA:	8	8 to 23	23 to 34	34 to 60	60+

QVGA = 320x240 pixels   VGA = 640x480 pixels   SXGA = 1280x1024 pixels

CPU:	Intel P4 2.4 GHz	Intel P4 3.2 GHz	Intel Pentium D 3.4 GHz	Intel Core 2 Duo E8600 3.3 GHz	Intel Core 2 Quad Q9650 3.0 GHz
RAM:	512 MB		1 GB	2 GB	
Display:	1024x768 resolution or above DirectX 9.0c or above Intel 945G/965G or above				
OS:	Windows XP, Windows Vista*, Windows 7				
Hard Drive:	Minimum 60GB recommended				
Ethernet:	100 Mbps			1 Gbps	

*When using Vista it is recommended that extra memory is installed

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ORDER CODES

X100D	Camera & Power Supply

RECOMMENDED ACCESSORIES

High Speed IP CCTV optimised Ethernet over Mains Adaptor

200 Mbps Ethernet over Mains* (Homeplug) adaptor. Creates a virtual network over the mains ring in any building. Specially designed for use with IP CCTV video and audio streams for optimised performance in critical applications. Requires two adaptors to make a network and then one additional adaptor per an additional port required. With mains passthrough socket for camera power supply.

ORDER CODE

XHP210	2 Year Warranty

1.55mm Fixed Iris IR Optimised Aspherical Megapixel PCB Lens

Megapixel Resolution Lens.
Horizontal viewing angles:
1/4″ camera: 115°
1/3″ camera: 135°
1/2″ camera: 150°

ORDER CODE

XL010P-PRO	2 Year Warranty

3.5mm Fixed Iris IR Optimised Aspherical Megapixel PCB Lens

Megapixel Resolution Lens.
Horizontal viewing angles:
1/4″ camera: 33°
1/3″ camera: 43°
1/2″ camera: 65°

ORDER CODE

XL035P-PRO	2 Year Warranty

6.0mm Fixed Iris IR Optimised Aspherical Megapixel PCB Lens

Megapixel Resolution Lens.
Horizontal viewing angles:
1/4″ camera: 33°
1/3″ camera: 43°
1/2″ camera: 65°

ORDER CODE

XL060P-PRO	2 Year Warranty

8.0mm Fixed Iris IR Optimised Aspherical Megapixel PCB Lens

Megapixel Resolution Lens.
Horizontal viewing angles:
1/4″ camera: 27°
1/3″ camera: 35°
1/2″ camera: 50°

ORDER CODE

XL080P-PRO	2 Year Warranty