

# Visioprime-PXL

## Digital Video Recorder Management System



The **Visioprime-PXL** is the top-of-the-range Intelligent Video Management System from Esser. It is ideally suited to larger applications that demand high-quality, high-capacity recording from many cameras and sophisticated treatment of captured images. In larger more complex systems, the **Visioprime-PXL** can be networked with several other **Visioprime** systems.

The **Visioprime-PXL** is a high-performance system capable of recording 25 images per second (ips) from each of the 16 cameras simultaneously, enabling the recording of a total of 400 high-quality images per second. The **Visioprime-PXL System** has enhanced live display, which means that the full frame rate of 25 ips will be displayed, regardless of the recording rate.

The standard configuration provides a single channel of audio input. However, with the **multi-channel audio (MCA)** option, the **Visioprime-PXL** can record an audio channel for each incoming video channel, with full lip-synchronisation as standard. A range of audio filters can be applied in playback to remove hiss and so improve the evidential value of recordings.

**MotionTrack™ Video Motion Detection (VMD)** enables you to configure the System to register an event when movement is detected in a particular camera view, so that significant incidents can be easily located when reviewing recordings. Alternatively, you can configure the System to record from specific cameras only when it detects motion, thus reducing recording time and saving disk space.

Additionally, the **Super VMD (SVMD)** option can be used to apply enhanced detection rules to a camera view, which enables the **Visioprime System** to:

- Track the direction, speed and size of objects moving in the camera view
- Detect whether an object has been removed
- Detect whether a foreign object has been deposited

The System can also be integrated with external alarm systems/devices, which can be used to trigger recording and on-screen alerts, simultaneously recording the event and notifying users of a possible incident.

### Summary of Features

- Records from up to 16 simultaneous video and audio inputs
- Powerful video compression with image authentication watermarking (Wavelet 128 bit encryption)
- Record rate of up to 400 ips (16 channels @ 25 ips)
- Live display of all cameras
- Video Motion Detection (VMD) and optional Super VMD (SVMD)
- Lip-synchronised audio playback
- Bi-directional audio (1 channel)
- Up to 16 external alarm inputs
- Event-based recording (VMD and Alarms)
- Scheduled recording
- Network connectivity (TCP/IP, Gigabit Ethernet)
- Alarm on loss of video inputs
- Remote system configuration and playback via **Visioprime-RM** software
- Live images via a web browser and Windows Media Player
- Controls for Pan-Tilt-Zoom cameras and domes
- Export of audio and visual images to CD or DVD
- Fully scalable system
  - 8, 12 or 16 channels
  - unlimited expansion over a network
- Up to 4 sequencer monitor outputs
- Attractive compact design (rack-mounted option)
- Integral CD writer (DVD upgrade option)
- Adjustable image rates per camera/ event
- Activity log / audit trail
- Multi-camera playback and display
- Multi user access passwords

### Certifications & Approvals

- Kalagate
- FCC (Class B)
- CE (Class B Digital Device EN 5008-1)
- Industry Canada RSS 119 (Class B)
- UL approval (pending)



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SYSTEM HARDWARE	DESCRIPTION	CONNECTION
Broadcast System	PAL/CCIR	–
Video Inputs	8, 12, or 16, (75 Ohm, 1V p-p)	BNC (Dip switch termination ON / OFF)
System Monitor	SVGA, DVI or S-Video	BNC
Sequencer Video Outputs (option)	4, (75 Ohm, 1V p-p)	BNC
Audio Inputs	1 (standard) up to 16 (with MCA option)	3.5 mm jack (line level)
Audio Output	1 channel	3.5 mm jack (line level)
Alarm Inputs	8, 12 or 16 isolated (n/c, n/o)	Screw terminals 12 pin, 3.2mm pitch terminal connectors
Alarm Outputs	2 to 4 isolated (n/c, n/o with timer)	Screw terminals 12 pin, 3.2mm pitch terminal connectors
RS232	control output	DB – 9M
Archive	CD-RW CD writer (DVD-RW option)	
Miscellaneous	4 x USB connections, Mouse and Keyboard, Parallel printer port	

SYSTEM HOUSING	DIMENSIONS	WEIGHT
Standard Case	445mm (W) x 177mm (H) x 479mm (D)	18 kg approx
Rack-Mounted Case	483mm (W) x 223mm (H) x 479mm (D)	19 kg approx

NUMBER OF CONTINUOUS DAYS RECORDED USING VISIOPRIME-PXL WITH 250GB HDD*								
IPS	1 CAMERA		4 CAMERAS		8 CAMERAS		16 CAMERAS	
	NO ARCHIVE	DYNAMIC RE-ARCHIVE	NO ARCHIVE	DYNAMIC RE-ARCHIVE	NO ARCHIVE	DYNAMIC RE-ARCHIVE	NO ARCHIVE	DYNAMIC RE-ARCHIVE
1	136	361	34	89	17	44	8	21
6	23	348	6	76	3	30	1	8
12	11	332	3	60	1	14	1	1
25	5	297	1	25	1	1	-	-

\*Recorded @ SVHS quality. Archival to 1ips @ 'low' quality after 24 hours

SOFTWARE Version 4.0	
Visioprime System GUI	Live display, playback and configuration
Visioprime-RM (option)	Live display, playback and configuration via network. Bi-directional audio (optional)
Visioprime-RM Lite	Live display and playback via network
sPlayer	Live display (1 view) and playback via network. Playback of exported video
Streamer	Live display (1 view) to client via web browser and Windows Media Player
NetAlert	Monitors network connections to Visioprime Systems

PRODUCT OPTIONS	
Multi-Channel Audio	Provides 8, 12 or 16 channels of audio to be associated with video
Super VMD	Direction tracking, object removal, object deposition
Bi-Directional Audio	Enables Visioprime-RM users to speak to people in the environment of one CCTV camera equipped with a speaker
Time synchronisation	Suite of software and associated hardware to synchronise time across a cluster of Visioprime Systems
Sequencer	Displays a timed selection of cameras for up to 4 sequence monitors, each with a text overlay

OPERATING ENVIRONMENT	
Temperature	5°C-55°C
Relative Humidity	5%-85% (non condensing)
Tolerable Shock (non operating)	10G x 2mS (2 per second max)



SYSTEM CAPACITY	
Image Capture Resolution	720 x 288 pixels (PAL) NTSC version available
Image Capture Rate	25 ips per camera (Max) selectable ips (16 cameras = 400 ips)
Live Image Display Rate	25 ips per camera
Video Compression Rate (Wavelet)	1 ips @ quality 1 = 41 KB 1 ips @ quality 11 = 7 KB
Internal Disk Space (Standard)	250 GB
Internal Disk Space (Extended)	Up to 1.5 TB
LAN Speed	10/100/1000 Mbps
Input Voltage Range	115/230V 60/50Hz 2.0/1.0A
Max Power Consumption	230W