

# *LuxRiot*

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LuxRiot

## LuxRiot Product Features



LuxRiot® is equipped with **Unique, Advanced** and Industry **Standard** Surveillance Features:

LuxRiot is a highly stable software, easy on any network and very easy to deploy with the advanced Auto Detection feature for IP cameras. LuxRiot also provides extreme flexibility as it can manage unlimited servers, sites, and cameras remotely, quickly and efficiently. LuxRiot is an open architecture Video Management Software (VMS) for Windows. LuxRiot accepts MJPG, MPEG-4 and H.264 as well as Full HD and megapixel video streams from Network (IP) cameras, encoders and capture boards. This along with LuxRiot client-server architecture allows to build hybrid scalable solutions from a single NVR/DVR to multiple servers handling thousands of cameras. LuxRiot accepts video streams from Network (IP) cameras from **60+ manufacturers** including all major manufacturers such as Axis, Arecont Vision, Pixord, SONY, JVC, Panasonic, IQinVision, Toshiba, Zavio, Acti, Vivotek (more than **900+ models** supported) LuxRiot also works with several DVR cards, like H.264 (up to 960fps and 32 channels at D1 resolution) boards from UDP and other manufactures. Moreover LuxRiot is considered to be a hybrid system, since a DVR card with analog cameras, IP cameras and IP mega pixel cameras, could be combined together on a single server.

### **Unique features:**

- **Fully-featured Client application** – All functions, without exceptions may be controlled both locally and remotely (only one user interface). Anyone operating the client application can connect to the server, access live and recorded video, change settings, etc. in accordance with granted user rights.
- **Server can run as a Windows Service** – (no need to login). This feature allows the running LuxRiot server to go virtually unnoticed. Also the server can run without logging in, so the security of the server is not compromised. **Server can run as a stand alone server using Windows Exclusivity.**
- **Supports unlimited number of cameras** – (hardware limitations may apply). The Enterprise [edition](#) imposes no limitations on how many cameras can be connected to a server. Although hardware performance cap (mostly CPU productivity and network bandwidth) may still connect to several hundred cameras, however, in time will decrease these limitations as hardware efficiency grows.
- **Efficient CPU usage** – If used in connection with Network (IP) cameras, Network Video Servers or DirectShow devices, the server will not use the power of the CPU to digitalize video and audio; this means that the CPU usage will be low enough to avoid interference with other software applications enabling the user to use the server for various applications in conjunction with video monitoring.
- **Full featured local and remote playback** – With search on motion and areas of motion you can now find momentary clips of video without searching for hours. For

instance, if an object is missing just highlight the area and hit go. LuxRiot will take you to all of the video clips that had motion in that area until you are satisfied.

- **Audio Support - Supports:** Two way Audio from IP cameras Sanyo, Axis (more manufactures will supported in our next release). One way Audio is supported from the H.264 frame grabber HP4000EX and from devices that expose themselves as (compatible) MS DirectShow devices, this includes USB audio devices.
- Bandwith Control (VIDEO TRANSFER Properties): Our advance built-in module in all LuxRiot editions allows you to, enable time laps broadcast, Motion control video Transfer, Bandwidth controlled Broadcast, And Video re-compression for optimum video frame rate according to available bandwidth.
- **Supported compressions:** H.264, MPEG4, MJPEG, JPEG.
- **Client configuration** – (screen layout, connection to servers, etc) **is a registered file** type, so it is possible to store different configurations on one computer, email them etc.
- **Support for the standard DirectShow devices** – The list of these devices includes everything from very basic USB cameras to camcorders to advanced multichannel video capture boards. These devices can be used alone or together with supported hardware and/or IP cameras.
- **Screen may be configured for HDTV monitor.**
- **Supports all major brands of IP (Network) security cameras** – Network (IP) cameras by multiple manufacturers are supported; the [list of supported IP cameras](#) is growing rapidly and an addition of a not yet supported camera may be expedited upon request.
- **IP Camera Configuration** – All IP cameras on the LAN may be configured via **Auto Search Wizard**. Using the Wizard a user is able to find all Network IP cameras available within the network. A user can configure them and connect them in no time and with little effort.
- **Full range of editions** – For all needs and budgets from Personal to Enterprise.
- **Global configuration:** All cameras, IP and Analog can be configured globally all at once for Recording, Motion, Video motion information, Time Lapse, Motion control, Event, and Storage Quote.
- **Camera status report:** LuxRiot DVR offers new helper application Camera Status Report
  
- **Free Software Upgrades**

LuxRiot Offers free software upgrades. When a new update version is available LuxRiot client-Server is equipped with an auto detection that will notify the server or remote pc that a new version is available. The notification includes version number and a download link to the new version. In addition new versions are listed on [www.LuxRiot.com](http://www.LuxRiot.com). During installation a wizard shall guide the user all the way through the installation for both the server or the client installation.

- **Licensing**

Licensing for the LuxRiot software is bind to the MAC address of the Hardware or the integrated Ethernet controller. No licensing is needed for individual IP cameras or IP servers/encoders

## **Advanced Surveillance Features:**

- **User-friendly wizards** – Makes LuxRiot easy to use and configure. All commonly used operations, such as adding access to a new Server from the Client application, searching for Network IP cameras within a LAN, User management, etc. can all be performed via the LuxRiot intuitive wizards. This helps make very advanced features accessible to the average computer user.
- **Enterprise Scalability and Monitoring (ESM)** – All functions, without exception may be accessed and administered both locally and remotely allowing management and administration for an unlimited number of servers around the world.
- **Object tracking** – For Bosch PTZ camera with Scheduler.
- **Runs as a Windows Service** – Not only can you lock windows, but you can log off windows all together and create a bullet proof environment.
- **Screen may be configured** – For wide-screen monitor (**WXGA**).
- **Export Settings** - Save connections and settings that can be exported and opened on any computer running the LuxRiot client application (configure one client with all your connections and import database to unlimited computers).
- **Optimized and Designed** – For Microsoft Windows Vista/XP/2003/Windows 7.
- **Developed for the future** – Custom Programming and exclusive features available.
- **User Management** - Controls access to cameras and program features. Depending on user status, user can be either allowed or denied access to software abilities and features such as: Administer server, Camera viewing, Remote connection, Playback, Archive, Data Delete and so much more.
- **Network Camera Search Wizard** – Using this Wizard a user is able to find all available network cameras, configure them, and connect them in no time and with little effort.
- **Automatic detection for IP cameras** – Available for LAN or a WAN range of IP addresses – Just connect your IP cameras to the network and tell LuxRiot an IP range to find cameras on. NO additional configuration required by integrator.
- **Hybrid** – Captures video from any source or multiple sources. CCD, cctv analog camera,, IP camera, USB camera, Web camera etc... Mix and match on the same machine.
- **Control PTZ cameras** – Pan, tilt and zoom cameras can be fully controlled from within the Client application.
- **Multiple clients may be connected to a single server** – Depending on [editions](#) and user [management settings](#), 1 to unlimited number of local and remote client applications may access the server to receive live and recorded video, as well as perform other operations. Depending on User Name limitations, the user could do everything or may be limited to certain access only.

- **Client connected to multiple servers** – A user of the client application, if granted sufficient privileges, may connect to an unlimited number of servers to view live and recorded video as well as perform other operations.
- **Each camera is individually configurable** – This allows tolerating camera operation to the particular monitoring area. The options that can be individually configured include: Frame-per-Second (FPS) rate, recording, motion detection, image adjustments (brightness, contrast, sharpness, hue, saturation) and more.
- **Map camera layouts** – Create map layouts on either Google maps or using a jpeg map. A user can place camera markers anywhere on a map for easy navigation of cameras.
- **Fully featured local and remote playback, no limitations on remote client.**
- **Client can be connected** – To **multiple servers** simultaneously. A client application user, if granted sufficient privileges, can connect to unlimited number of servers to view live or recorded video as well as perform other operations.
- **CD/DVD Backup Wizard with player.** Hard drive backup wizard. Using our CD/DVD export wizard, any computer can open the exported videos with audio without the need of codec or the need to install any playback software.
- **Client database with connections and settings** – That can be exported and opened on any computer running LuxRiot (configure one client with all connections and import database to unlimited computers).
- **Advance server recording settings** – Can be configured locally and remotely.
- **TCP Port** – User can select TCP port to their Preference the default is 60554.
- **Disk analysis screen display** – For improved recorded data analysis.
- **Layouts** – Create custom Layouts by grouping cameras from different DVR Servers/Locations into groups for more efficient monitoring, and better management. Drag and drop cameras from a server or multiple servers to custom layouts.
- **Exclusivity Mode** – Exclusivity Mode (windows lock-out) can be set up, to take special care to ensure LuxRiot is the only application the user is interacting with. Advance properties are available for startup and password authentication is available too.
- **Layout Sequences** – Layouts can be used for Sequencing. Layout sequences can be set in custom time intervals with custom layout priorities. Multiple Sequences can be created and activated at any given time.
- **Adjustable screens** – View more than 32 cameras? Adjust the LuxRiot window and open multiple instances. Open as many as your monitor can handle or you can view.
- **Software watchdog** – Advance Watchdog Operations, Programmable with maintenance settings. Watchdog can be configured to periodically restart server services to clear any possible problems which could degrade server system performance, (select different time frames (days, hours, Etc), Adjust auto settings for error control and advance detection for problem detection and recovery.

- **Hardware watchdog** – (On supported frame cards when available).
- **Video Adjustments** – Video adjustment can adjust every individual camera with its own settings remotely and locally. Adjustments for Brightness, Contrast, Saturation, Sharpness, and Hue. Adjustable image quality camera by camera. Adjustable compression settings camera by camera.
- **Motion control recording** – with option for recording frames when no motion is detected (EX. 1 FPS when no motion and 30fps when Motion).
- **Export Snapshots.**
- **Export recorder video** – Available Properties with options built into LuxRiot for most Supported Codec's.
- **Digital zoom**
- **Free distribution of the client software for unlimited computers** – User can install client software on unlimited pc's at no additional cost for licensing.
- **Free Software upgrades** – For all licensed users.
- **Output Video to a NTSC/PAL**
- **Network Drive Mapping** – User can map network drives at no additional cost for licensing.
- **Network Camera Search Wizard** – Using this Wizard a user is able to find all available network cameras, configure them, and connect them in no time and with little effort.
- **Camera/Network Support** – Supports all major brands of Network (IP) cameras and Network Servers.
- **Client configuration** – (screen layout, connection to servers, etc) is registered file type, so it is possible to store different configuration on one computer, email them or export them as database and open them on any computer with the client.
- **Full featured local and remote playback** – with search on motion and areas of motion (SMART SEARCH).
- **Each camera is individually configurable** – including: recording, motion detection, and image.
- **Multiple resolutions support** – (camera by camera) up to 640x480 (frame cards) and **2592x1944** Pixels (IP Mega Pixel Cameras).
- **Display Mode**
  - 1 camera (full screen) layout
  - 4 camera (2 x 2) layout
  - 6 camera [2x2 + 1(large view)] layout
  - 8 camera (7 + 1(large view)] layout
  - 9 camera (3 x 3) layout
  - 10 camera (8 + 2(large view)] layout

13 camera (12 + 1(large view)) layout  
16 camera (4 x 4) layout  
25 camera (5 x 5) layout  
36 camera (6 x 6) layout  
48 camera (6 x 8) layout  
54 camera (6 x 9) layout  
49 camera (7 x 7) layout  
64 camera (8 x 8) layout  
96 camera (8 x 12) layout  
81 camera (9 x 9) layout  
108 camera (9 x 12) layout  
100 camera (10 x 10) layout

- **Wizards**

Wizards are for easy navigation and step-by-step setup instructions on how to perform configurations and other setup tasks as follow:

- Add a new connection to the LuxRiot server
- View or modify Server connection properties
- View or modify server User permissions (camera by camera)
- Add, Configure or delete camera device
- Configure export of video frames
- Open Server Archive
- Manage server Watchdog settings
- Camera status report
- View or modify server recording properties
- View or modify server TCP communication properties
- Submit a problem report
- Automatically discover network video devices
- Backup server archive data

**More Standard Surveillance Features:**

- **LuxRiot server is compatible with the following Operating Systems:**

Microsoft Windows 7 (all versions)  
Microsoft Windows XP (all versions)  
Microsoft Windows Vista (all versions)  
Microsoft Windows Server 2003 2008

- LuxRiot DVR supports PSIA compatible devices
- LuxRiot DVR is capable of using individual per camera recording quotas. Options to constrain footage in gigabytes or duration of days or both
- **Continuous recording** – No tapes to be replaced; Recording operation uses FIFO Technologies (First in, First Out).
- **Multiple screen configuration options** – You can choose from 1 screen view, 4, 9 or 16, 25, 36 equal screen views. Other options include custom views, where as one or two screens are larger than the others.

- **Motion Detection** – Each camera may be set to detect motion. No additional hardware is required for motion detection; Motion detection is performed solely on a software based level. Triggered by motion, a camera can perform numerous operations and is not limited to only recording video. Motion activated recording supports an unlimited number of Motion Zones that each have unique sensitivity settings. View results in real time for easy setup.
  - Label each Motion Zone to trigger actions.
  - Event log allows quick review of video associated with motion or alarm events.
- **Remote Management** – via Internet and/or LAN/WAN. The server can be accessed from any part of the world for remote monitoring, remote playback, user management and more...
- **Real-time playback** – without interrupting the recording cycle any camera can be played back using the local or remote Client application software. Such playback will not interrupt ongoing video recordings, nor will the quality of the recordings be compromised.

For IP Camera compatibility list please click here:

<http://www.LuxRiot.com/networkcameras.asp>