

VMX Lite – Stand-alone video surveillance system

Teleste VMX System is a modular system for surveillance applications containing video streaming, transmission, switching, recording and video management. VMX Lite is a complete stand-alone video surveillance and monitoring system.



Powerful performance in a single unit

VMX Lite has been designed and built to deliver the powerful performance, but yet in a real estate friendly sized single unit.

Systems with a large physical footprint, and containing distributed recording, backup functionality and multiple client access are not always required.

Therefore, Teleste VMX Lite is the answer when the requirement is for a

fully professional security application in a stand-alone single site operation.

Functional component within a network

VMX Lite is, to all intents and purposes, a surveillance monitoring, recording, storage, analysis suite.

As well as being a recorder for video streams encoded by Teleste encoders, also supported are third party

megapixel and IP cameras. Teleste VMX Lite readily applies itself into any IP network.

The complete surveillance suite

VMX Lite delivers everything in one unit available as a rack mounted 5U (R5) or as a stand-alone tower (T5).

VMX Lite can be also delivered as space optimized 2U rack mount size (R2).

Recording and storage

- ISO/IEC compliant MPEG-2/4/H.264 video decoding
- Low latency
- Multiple user groups
- Multi-stream support
- Unicast and multicast support
- Multicriteria search
- Map support
- Public/private camera switching
- List player
- PTZ camera control via virtual joystick, computer keyboard from GIS map and optionally from traditional CCTV keyboard or joystick

Recording and storage are included by default.

There are up to eight (8) built-in HDD bays (three for VMX Ultra Lite), which can be populated by different capacity disks, running on RAID failure mitigation software.

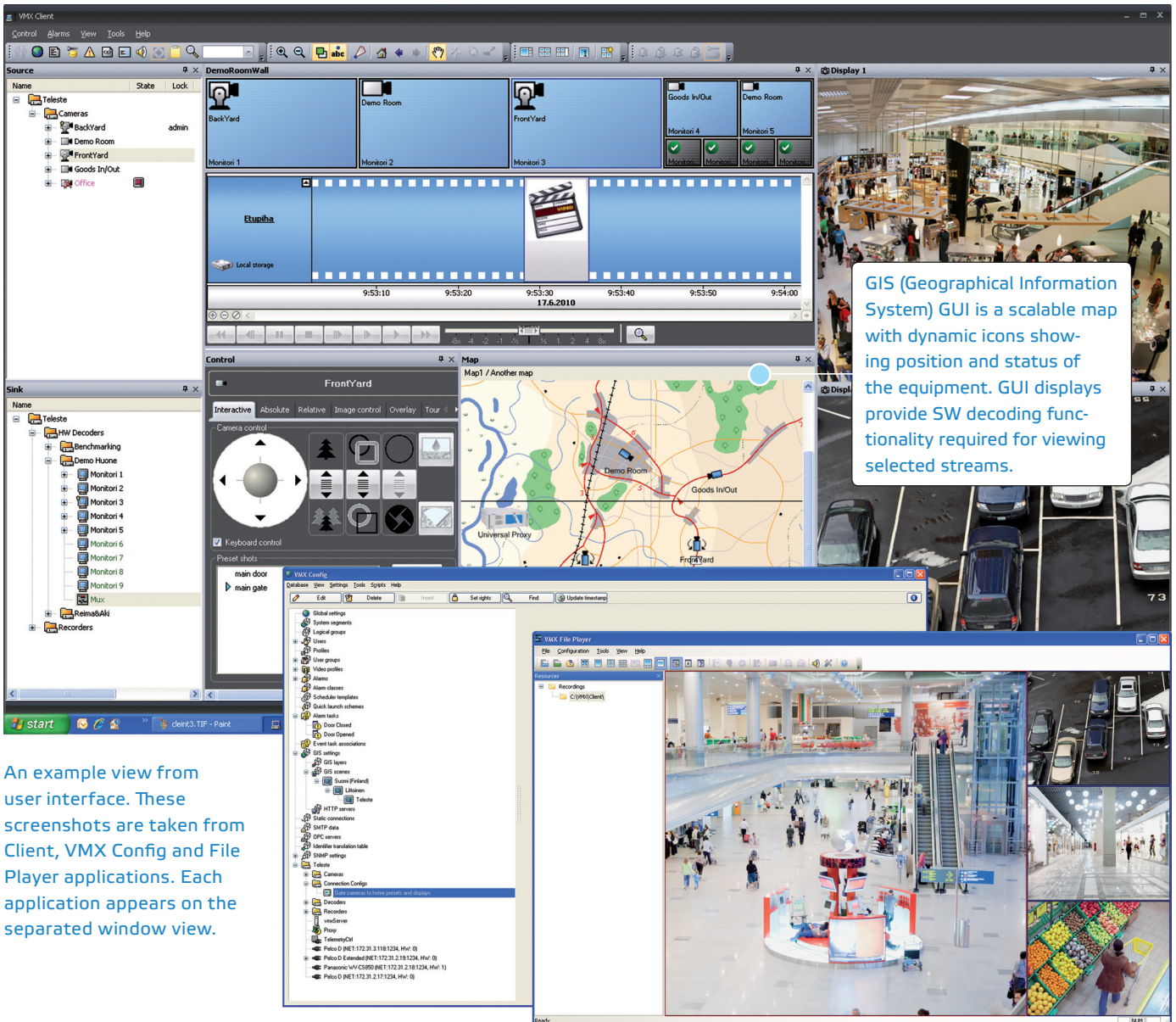
If the storage requirement exceeds the limits of internal storage, then there is an option for extension over a SCSI interconnection.

VMX Lite supports up to 32 simultaneous video stream channels.

Viewing and management

Viewing and management are included as well. Operator access to all video information can be presented on either 2 or 4 monitors.

One monitor is usually implemented as a comprehensive GUI, with graphical storage browser and map functionality, whilst the other monitors are set up to be multiple tiles of live or recorded video.



An example view from user interface. These screenshots are taken from Client, VMX Config and File Player applications. Each application appears on the separated window view.

Analysis, editing and dissemination

The Video evidence that is stored in the system can be analysed against user defined parameters, such as camera identification (number/title), time, date, externally connected alarm, internally generated alarm, and zoned motion detection.

The editing suite allows the user to zoom in, take a JPEG snapshot and process the picture to mask out specific information (faces, number plates), crop to desired size, rotate and filter colours and hues.

The finalised picture can be distributed via e-mail, File server or CD/DVD media. The video stream itself can be also saved into CD/DVD in a variety of ways dependent upon the use. As forensic evidence it will be stored in it's native format, along with a copy of the player software.

This method includes the system log file for the time period of the recording, which gives irrefutable proof of exactly what the operator was instructing the system to do during the recording period.

The MD5 checksum can be applied to the recording to identify tampering. For dissemination to other sanctioned viewers it can be exported in AVI format to be played in a variety of video replay devices.

As well as the video stream, the recorder also stores any associated audio that is available, in either direction (to/from cameras), further strengthening the utility of the information.

System expansion

Your next step expansion solution When the day comes that this island of information, has to join a network of other Teleste systems, then it is simply a matter of a revised licensing purchase to upgrade the VMX Lite to the VMX system, and your VMX Lite becomes an investment that truly pays back.

- VMX Lite/Ultra Lite is a complete video surveillance and monitoring system in a single box

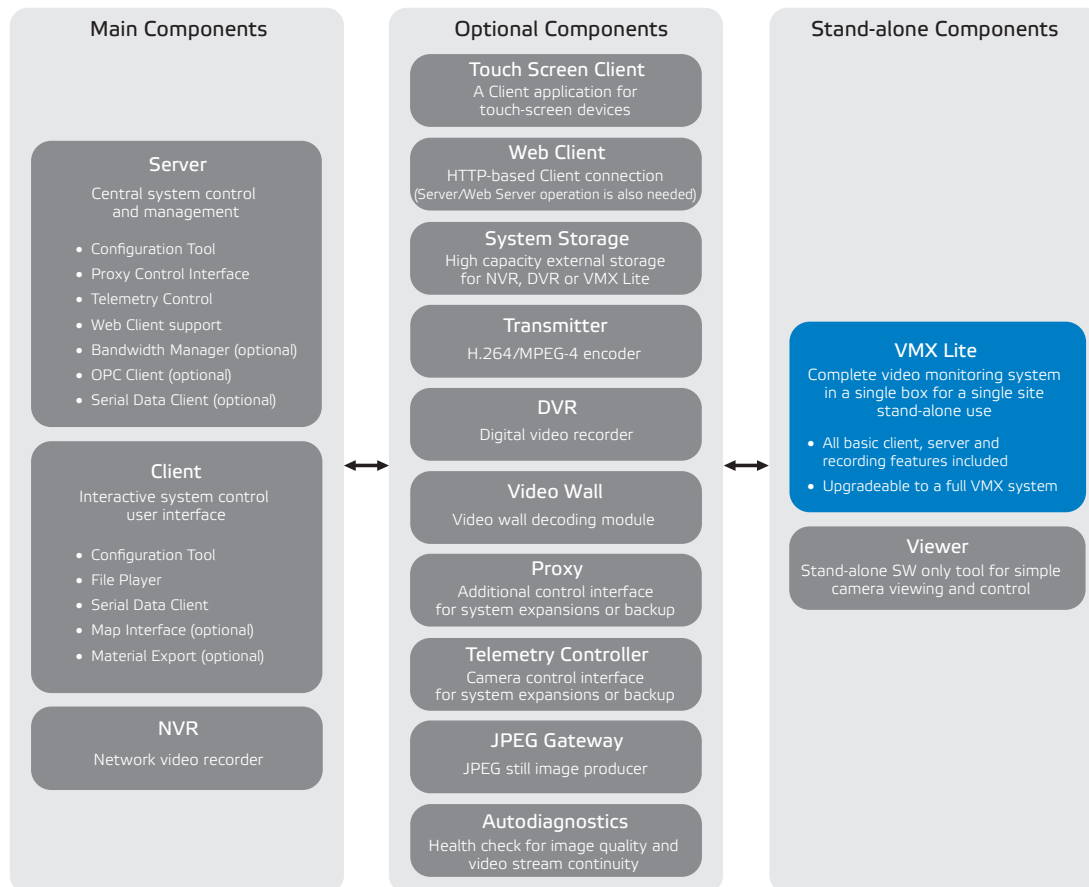


- VMX Lite video management system built in the 5U high IPC (industrial PC) unit.



VMX Lite is also available in space optimized 2U rack mount version (R2).

VMX system components



Features

- Built in recording (up to 8 disks)
- External storage trough SCSI (option)
- A comprehensive GUI with graphical storage browser and maps
- Multi monitor system: Up to 4 monitors with several real-time video tiles on each
- Export your video directly to DVD or CD. Digital water marked and with a player included on the media
- Print and e-mail snapshots from the recordings
- Use the motion search feature to quickly find motion in your recordings
- Connect and view video from your megapixel IP cameras and from IP cameras
- Generates alarm based on contact closure triggers and bring out alarm to external device
- Video playback using alarm list

Technical specifications (Typical values unless otherwise stated)

| Video | | Tested performance on Teleste HW *** | |
|------------------|--------------------------------------|---|---|
| Formats | MPEG-2, MPEG-4 SP, H.264 | Playback streams ¹⁾ | 4 |
| Software | | Built-in storage with RAID | |
| Operating system | MS Windows XP embedded | RAID 5 ²⁾ | 4 x A or 8 x B or 10 x C |
| Application | VMX Lite | RAID 1 ²⁾ | 8 x A or 25 x B or 30 x C |
| Hardware | | JBOD | 10 x A or 18 x B or 25 x C |
| Processor | Intel I5 | A = 4CIF @ 25fps@4Mbps, B = 2CIF @ 25fps@2Mbps, C = CIF @ 25fps@1Mbps | |
| Motherboard | ATX | ¹⁾ MPEG-2/4 or H.264, ²⁾ The performance is lower (up to 50%) for rebuilding mode | |
| Memory | 2048 MB | General | |
| Boot device * | HDD, SSD or flash | Supply voltage | 100...240 V AC / 50...60 Hz (± 3 Hz) |
| Monitor output | DVI, VGA, HDMI | Power consumption | 200 W |
| Ethernet | 2 x 1000Base-Tx | Operating temperature | +5...+35 °C (+41...+95 °F) |
| Power supply | Standard, redundant * | Relative humidity | < 90% (no condensing) |
| HW watchdog | Built-in R2, R5 | Housing | Industrial PC 19" wide rack mount (2U or 5U high) and tower |
| Storage | | Weight ** | 20...25 kg (44...55 lbs) R2 20...30 kg (44...66 lbs) R5, T5 |
| Built-in * | 3 x HDD R2 8 x HDD T5, R5 | Dimensions (H x W x D) | 2U x 19" x 450 mm (2U x 19" x 17.7") R2 5U x 19" x 550 mm (5U x 19" x 21.6") R5 425 x 220 x 552 mm (8.3 x 17.7" x 21.7") T5 |
| HDD * | 500GB, 750GB, 1TB, 2TB | Safety | EN60950 |
| RAID * | JBOD, RAID 0, RAID 1, RAID 5, RAID 6 | Notes | |
| External * | SCSI R2, R5, T5 | * = optional | |
| | | ** = depends on configuration options | |
| | | *** = Tested for suite 4.0 | |