

# VMX DVR – Digital Video Recorder

Teleste VMX System is a modular system for surveillance applications containing video streaming, transmission, switching, recording and video management. VMX DVR is Digital Video Recorder in the Teleste VMX system.



VMX DVR is an optional component of Teleste video system. It is a module providing multichannel MPEG-4/H.264 video encoding, recording and playback functionality.

VMX DVR provides the functionality of capturing analog video, encoding video to various format, video storage and video playback. Optionally, the same functionality is provided for audio content.

The module records video in an un-interruptible loop mode to a local hard drive ensuring that all critical events

are recorded even before the system operator is able to react to them.

VMX DVR allows operators to save the contents of the recording loop or a selected part of a recording after an incident has occurred.

Camera control and touring are supported, as well as security mechanisms such as media encryption and watermarking.

DVR supports multiple user levels, grants the access to stored material according to user rights and priorities defined in the system configuration.

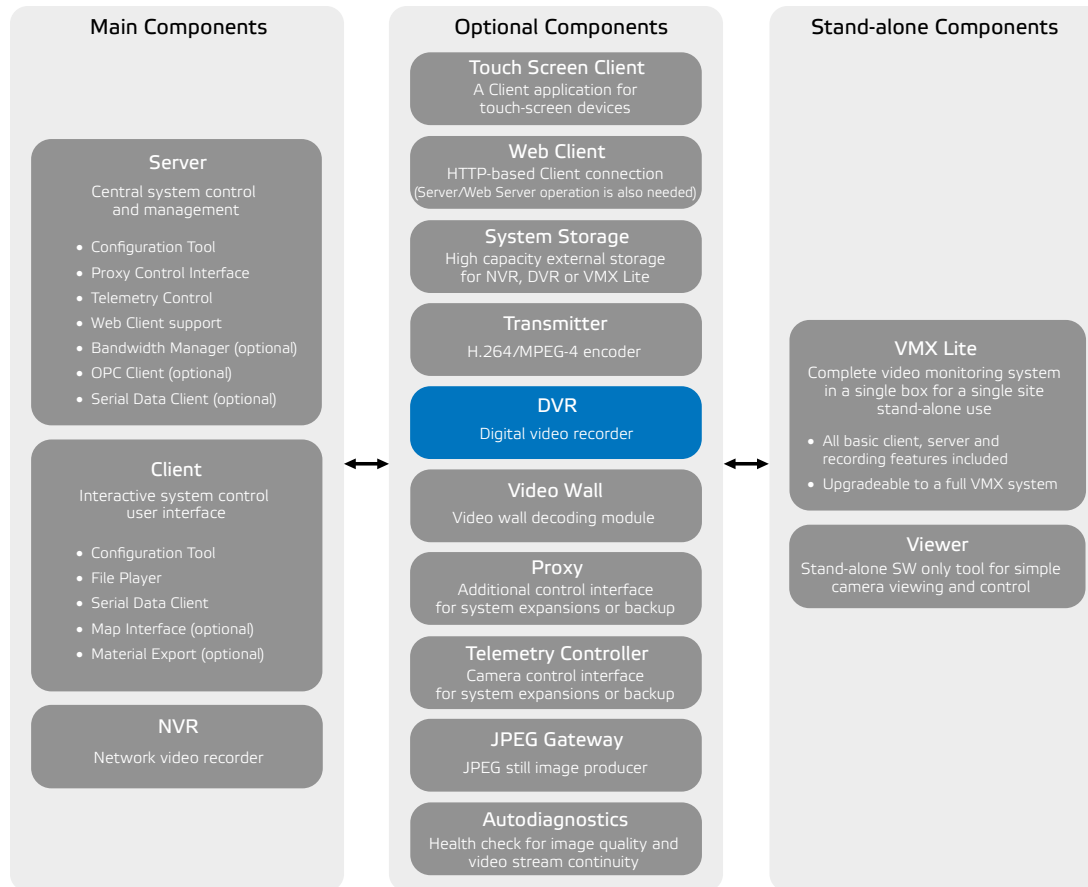
New generation recording platform offers enhanced storage reliability by improving scalability and flexibility of recording loops.

The component can be managed and diagnosed remotely and its design fits well to multi-host environment allowing multiple simultaneous client connections and multiple views of recorded material.

VMX DVR is delivered as a 3U rack mounted build.

Custom designed HW watchdog increases component reliability and greatly improves the system uptime.

# VMX system components



# Features

- Video and audio encoding of MPEG-4 and H.264
- Easy to use jog/shuttle for variable speed playback
- Fully customizable OSD showing time, date, video source, location, operator and more
- Synchronized playback of multiple recordings
- Storage browser presents recordings and associated alarms on a time line
- Global overview of multiple recorders in the network
- Snapshots for visual identification
- Search criterias such as cameras, location, time, alarm etc.
- Support of downloading to local playback station or application for off-line archiving
- Export to DVD/CD/USB
- Integrated burning to optical media
- Checksum for recorded material tamper proofing
- Audit trail of recorded and burnt material
- Storage encryption
- Scalable solution - from a single recorder to large systems
- Support for alarm and event triggered recording
- HTTP interface with basic information about the component

## Technical specifications (Typical values unless otherwise stated)

| Network            |  | General                               |  |
|--------------------|--|---------------------------------------|--|
| Transport          | TCP/IP, HTTP/HTTPS                             | Supply voltage                        | 100...240 V AC / 50...60 Hz (± 3 Hz)   |
| <b>Video</b>       |  | Power consumption                     | 200 W  |
| Encoding formats   | MPEG-4 / H.264                                 | Operating temperature                 | +5...+40 °C (+41...+104 °F)  |
| <b>Audio</b>       |  | Relative humidity                     | < 90% (no condensing)  |
| Encoding formats * | G.711(synchr)                                  | Housing                               | Industrial PC 19" wide rack mount (3U or 5U high) and tower  |
| <b>Software</b>    |  | Weight **                             | 15...22 kg (33...48.5 lbs) R3<br>20...30 kg (44...66 lbs) R5, T5   |
| Operating system   | MS windows XP embedded, MS windows XP          | Dimensions (H x W x D)                | 3U x 19" x 445 mm (3U x 19 x 17.5") R3<br>5U x 19" x 550 mm (5U x 19 x 21.6") R5<br>211 x 450 x 552 mm (8.3 x 17.7 x 21.7") T5 |
| Application        | VMX DVR  | Safety                                | EN60950  |
| <b>Hardware</b>    |  | <b>Notes</b>                          |  |
| Processor          | Intel I5                                       | * = optional                          |  |
| Motherboard        | ATX  | ** = depends on configuration options |  |
| Memory             | 2048 MB  |                                       |  |
| Boot device *      | HDD, SSD or Flash                              |                                       |  |
| Monitor output     | DVI, VGA, HDMI                                 |                                       |  |
| Ethernet           | 2 x 1000Base-Tx                                |                                       |  |
| Power supply       | Standard, redundant *                          |                                       |  |
| HW watchdog        | Built-in                                       | R3, R5                                |  |
| <b>Storage</b>     |  |                                       |  |
| Built-in *         | 3 x HDD R3<br>4 x HDD R5, T5<br>8 x HDD R5, T5 |                                       |  |
| HDD *              | 500GB, 750GB, 1TB, 2TB                         |                                       |  |
| RAID *             | JBOD, RAID 0, RAID 1, RAID 5, RAID 6           |                                       |  |
| External *         | SCSI   |                                       |  |

Copyright © TELESTE CORPORATION. We reserve the right to make changes without prior notice.

PAP\_VMX\_DVR\_46-28042011