

# onSafe XM

## Modular multistandard (MJPEG and MPEG4) video recorder and transmitter system



### General Overview

The onSafeXM is a multi-standard digital video recorder and transmitter for high performance video surveillance and CCTV applications. It can simultaneously record and transmit all the cameras at overall speed of 200 fps CIF.

Provides simultaneous capability for:

- Local and remote real-time video display
- Local and remote real-time video recording
- Local and remote display of recorded video

The onSafeXM system encodes PAL/NTSC video signals from 4 to 16 cameras to standard MJPEG and MPEG4 formats. It enables text to be inserted in the video and includes motion detection in the image and detection of sabotage or loss of camera signal. As an option, it can incorporate intelligent video contents analysis functions for up to 4 cameras in systems with 4/8 cameras.

It is locally managed using a mouse and a video monitor. The monitor displays the cameras in real time and the stored video recordings. The units can also be managed remotely via IP networks using the onSafeCS Plus application.

The system supports the connection of one or two local discs for local storage and also remote recording on network storage servers..

Includes two serial ports for asynchronous communications and dome telemetry, eight contact inputs and four relay outputs, and it supports the connection of audio devices: microphone (with the possibility for recording) and speakers.

As a video server it supports dual video stream\* for recording and transmission, with picture quality level adapted to the available end to end bandwidth.

### Features

- **Non PC embedded Integrated multiprocessor board.**
- **Flexible architecture with optional local intelligence for automatic decision-taking based on video processing and video content analysis.**
- **Standard encoding (MJPEG or MPEG4) with various configuration modes for recording and simultaneous transmission, among them \*\*:**
  - **8 flows at 25 fps (4 in 4 camera units)**
  - **16 flows at 12.5 fps**
- **Advanced MPEG4 (CBR,VFR,VGL)**
- **CIF, DCIF, 4CIF resolutions**
- **Double flow\***
- **Multicast, unicast and multi unicast transmission**
- **Modularity:4, 8, 16 cameras.**
- **Available formats:**
  - **Tamper box for 4/8 cameras\***
  - **19" box 1.5 U for 4/8 or 16 cameras**
- **Camera Monitor: Allows simultaneous viewing and recording all cameras connected to the system using a single flow. Bandwidth optimization to remote access and video downloads.**
- **Real-time (at 25 fps) and recorded video display on PAL/NTSC monitor and/or remote display from onSafeCS Plus.**
- **Optional power supply with UPS for battery charge\*.**
- **Basement for Integration of alarm panels projects to transmit alarms via corporate network**

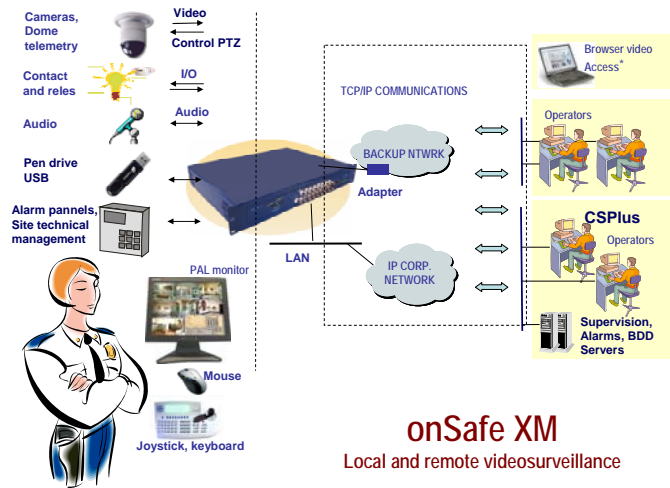
## Stream generation and transmission

The MPEGx-404 encoder can provide single or dual video streams with a selection of qualities and resolutions to adapt to the most demanding requirements for video recording and transmission at different bandwidth and quality.

Furthermore, every stream (single or dual) can be sent to multiple destinations using multicast or multiunicast transmission. The following table displays some examples of single and dual video stream parameters.

The indicated fps number is the maximum available from a range between 0,8/0,9 fps to 25/30 fps .

Cám	Single Stream	First dual stream	Second dual stream
1	4CIF 25/30 fps	4CIF 12,5/15 fps	4CIF 12,5/15 fps
	DCIF 25/30 fps	DCIF 25/30 fps	DCIF 25/30 fps
	CIF 25/30 fps	CIF 25/30 fps	CIF 25/30 fps



**onSafe XM**  
Local and remote videosurveillance

## Technical Specifications

### Video

Inputs	4/ 8 channels on motherboard, extendable to 16 cameras. 4 camera systems can not be extended.
Encoding	MJPEG ISO 1091-2 MPEG-4 Advanced Simple Profile @ Level 5 ISO/IEC 14496-2
Flow	Up to 32 simultaneous flows. Configurable to 25 IPS, 12.5 IPS, 6.25 IPS, 3.125 IPS PAL / NTSC
Camera Monitor	Viewing and recording all cameras using a single flow
Resolution	Standard resolutions: CIF, 2CIF, 4CIF/ D1(720x576)
Bit rate	Configurable: 30 Kb/s - 8 Mb/s
Distribution	Configurable: multicast with no limits on simultaneous receivers or unicast with various sessions
Processing	Text insertion (OSD). Intelligent video analysis (optional)
Alarms	Motion detection, loss of signal and camera covered

### Audio

1 Input/Output jack connector. Audio recorded with video stream of one camera. Optional: Bidirectional audio for IP interphony.(VoIP)

### I/O

8 Inputs. 4 Outputs

### Telemetry

PTZ dome mouvement via RS232/RS485/RS422 port. Multi-manufacturer

### Communications

Ports	1 RS232 port, 1 RS485 / RS422 port, 2 USB ports; Optional : RS232 port 1 Ethernet port 100 BaseTX.
Protocols	IP, ARP, ICMP, TCP, UDP, RIP-2, BootP, RTSP/RTP/RTCP, ...
IP Applications	Telnet, HTTP server, FTP Server/Client, SMTP, DHCP, SNMP, RTSP, ...
Quality of Service	Configuration of high priority IP labels or VLAN labels according to IEEE 802.1

### Management/configuration

Local and remote: telnet and configuration via web. SNMP medium Mib2.

### Enclosures

1.5 RU Box: 8 or 16 video inputs  
Tamper box\* (31.5 cm x 45 cm x 9 cm): 8 or 16 video inputs

### General

Discs	1 or 2 internal hard discs. Support for recording in network storage servers.
LEDs	System error and correct operation. On Ethernet connector: link and activity.
Supply	Available power supply models: AC 220V; UPS/12v*; -48VDC
Certifications	CE and UL

This equipment is available with MPEG2 under license (royalties payment required)

\*Ask Lanaccess for availability of those options.

\*\* Figures with CIF resolution. Half with DCIF and Quarter with 4CIF  
Data sheet subject to change without notice.