



Project : video recording for A.C.R.T.



FIELD MOBILE VIDEO RECORDING SYSTEM FOR A.C.R.T. UNITS



LEM001

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Presentation of activities :



- ***Mobile video recording kit to be installed on IVECO protected military vehicles mod. VTLM - Lynx
(P / N LEM 90.300.04 - N.U.C. 5820.15.180.8086)***
- ***The system, supplied in the form of a kit that can be installed by the end user, is made at the specific request of the Italian Army to allow units A. C. R. T. (Advanced Combat Reconnaissance Team) to carry out surveillance, detection and cartography activities in a potentially hostile environment, possibly videotaping the route taken without the need to stop or get off.***
- ***The kit has been designed to be implemented on other vehicles (such as the latest version of the VTMM) by simply replacing the mechanical supports.***

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System composition :

- ***External video camera equipped with a remote-controlled turret positioned on the roof of the vehicle and equipped with a lens cleaning system using detergent liquid contained in the metal support trellis.***



- ***Command pulpit equipped with touch screen computer / monitor and joystick with push button; the pulpit contains a removable hard disk and the service box.***

- ***electrical interface box between the outdoor unit (video camera) and the indoor unit (control console)***



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Operation (1):



- The system operator, positioned on the front right seat of the vehicle, sends the commands and receives the images via the control pulpit positioned in front of him and tied to the dashboard of the vehicle via a cushioned base.
- To pilot the video camera, it uses a joystick that allows zooming and tilting, while the other commands are sent via dedicated keys and virtual keys, present from time to time on the touch screen monitor.
- Using the system, the operator can perform a simple visual inspection (360 °) of the area crossed by deciding, when he deems it appropriate, to videotape what he is filming, highlighting any particular or conspicuous points using the zoom and adding written notes on the recording by the touch screen keyboard.



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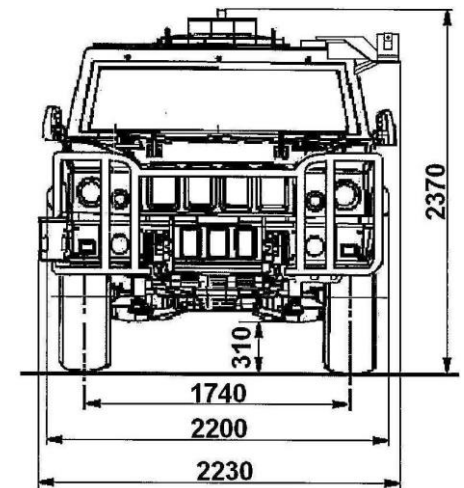
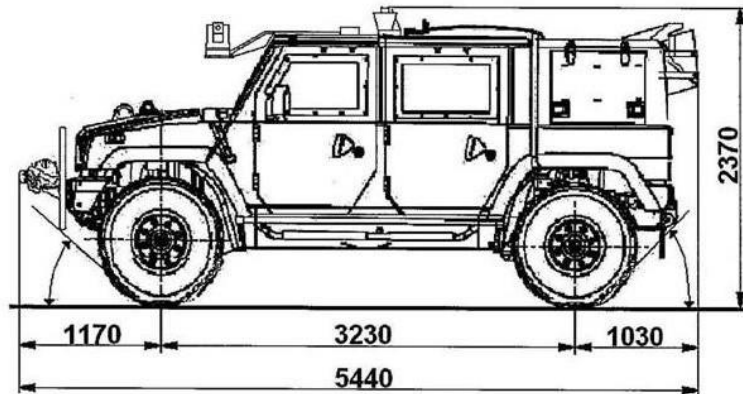
Operation (2):

- upon returning from the mission, the Hard Disk in which the recordings are contained can be quickly extracted from its housing to allow, through the supplied adapter, an easy analysis of its contents in a safe area.
- To limit the risk for the components of the A.C.R.T. unit, in the event that during the reconnaissance the camera lens gets dirty, the operator can activate an automatic washing cycle of the front protection glass.

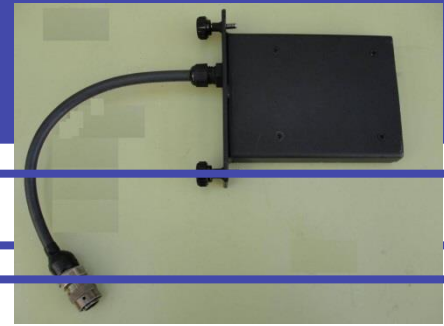


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Pictures:



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Main technical features

Video camera

- Color CCD
- 480 lines NTSC / PAL shooting format
- Resolution 630 X 740
- Sensitivity 0.001 lux
- Color day - night b / w function
- Pan 0 ° / 360 ° Tilt -20 ° + 90 °
- Vel. Pan / Tilt adjustable (Max 100 ° / sec.)
- Zoom: 26X optical
- Operating temp. -40 ° + 55 °
- Mechanical cushioning system
- Stabilizing. electronics of the image
- Auto flip function
- "Parking" function

Computer/Monitor

- Mod. PVR10
- 10 "in color
- Resolution 1024 X 768
- Touch-Screen control functions

Video recording unit

- Memory on 250 Gb Hard Disk with Mil connector.
- Start / stop recording function
- Recording day and time indication
- "Notes" function
- GPS coordinate recording option
- USB 2.0 port

Generali

- Power supply 12-18 Vdc.
- Mechanical components made of aluminum and galvanically treated
- Paint: NATO black - Masking (Other NATO colors optional)
- Stainless steel tank for lens washing: 1,5 Lt.