



## DEMO WIN

"Full Control Base Station, level 3, 150 vehicles limitation, with maps included. Front-End PCs supplied with WINDOWS 2003 operating system"

Demo WINDOWS C.B.S. supplied with 5 telephone interfaces (1 voice channel, 2 data channels and 21 GSM channels) and 2 operator desks. Particularly designed for 24 hours a day service. Its redundant structure grants a very high reliability level and virtually no service interruptions. Very precision positioning.

### PARTS LIST

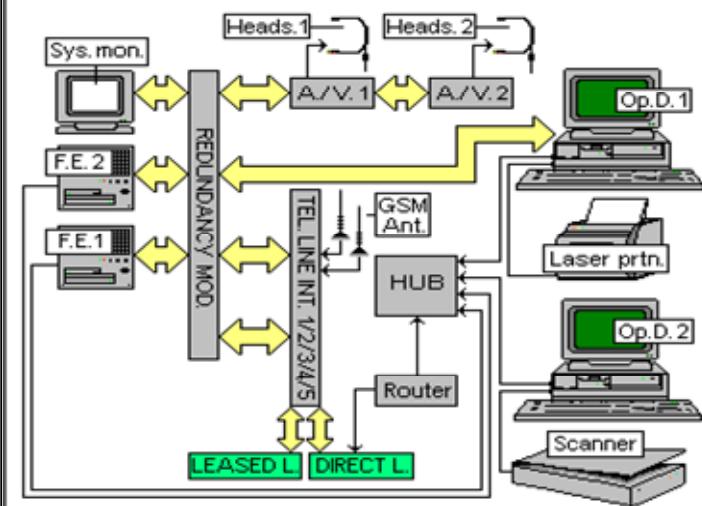
N. 01 19", 36U industrial cabinet  
N. 02 Industrial Front-End PCs  
N. 02 Front-End network boards  
N. 02 Front-End WINDOWS 2000 licences  
N. 02 Front-End software licences  
N. 02 Front-End SMS software licences  
N. 02 Front-End licences for WINDOWS expansion  
N. 02 8 ports multiseriial boards  
N. 01 8 ports redundancy board module  
N. 01 14" colour monitor  
N. 01 First position Audio/Video switching board  
N. 01 Additional Audio/Video switching board  
N. 02 Operator desk PCs  
N. 02 Operator desk network boards  
N. 02 21" colour monitors  
N. 01 First operator desk software licence  
N. 01 Additional operator desk software licence  
N. 02 Map software management licences  
N. 02 Hardware keys (150 vehicles limitation)  
N. 02 Headsets  
N. 01 Hub  
N. 01 Router  
N. 01 Telephone line interface  
N. 01 GSM modem (data + SMS) module  
N. 01 Additional GSM (data + SMS) modem  
N. 02 GSM antenna kit  
N. 01 Data modem module  
N. 01 Additional data modem  
N. 01 A4, 300 dpi colour scanner  
N. 01 2400 VA min. uninterruptured power supply module (U.P.S.)  
N. 01 Operator desk laser printer  
N. 01 Complete cables kit  
Instructions manual  
Assembly and test

### TECHNICAL FEATURES

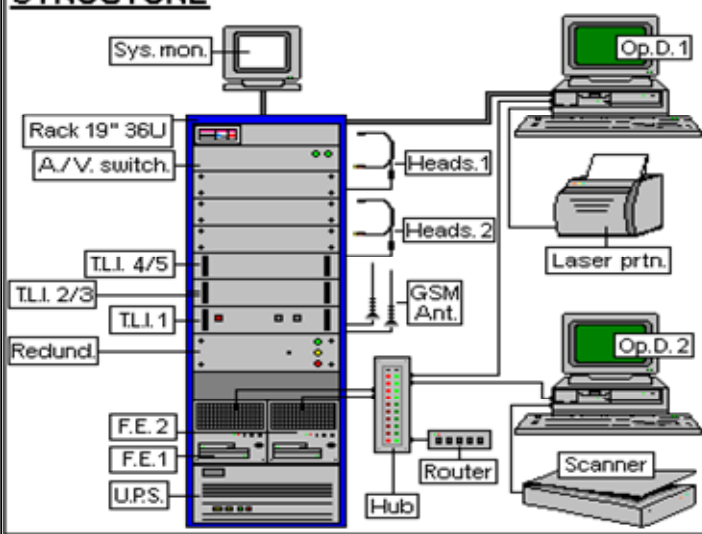
- Connection by IP Address.
- Configurable and shareable serial ports.
- Fully redundant in hot back-up (\*).
- Two operator desks equipped with accessories (laser printer, scanner and headsets).
- Five telephone interfaces.
- European maps included.

(\*) **Note:** Refer to the supplied manuals for more details

### DIAGRAM



### STRUCTURE



### ADDITIONAL RESOURCES

- Depending on free ports available on the Hub, it's possible to share and configure further operator desk PCs.

### HOW TO PLACE AN ORDER

\* The manufacturer has the right to modify any construction detail without prior notice.

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# **APPLICATION SOFTWARE: operator functions and commands**

## **SUPPORTED OPERATIVE SYSTEMS**

- ☒ Microsoft Windows 2000 SP4, Server 2003 e XP

## **WINDOWS**

- ☒ AVL mobile unit Status window
- ☒ Map window
- ☒ Alarms and messages list window
- ☒ Help on line window
- ☒ Vehicles archive window
- ☒ Multi-functioning menu windows
- ☒ Current desktop saving function
- ☒ Saved desktop re-loading function
- ☒ Video display window

## **AVL MOBILE UNIT MANAGEMENT**

- ☒ Single position request
- ☒ Single position request for a vehicle fleet
- ☒ Continuous link
- ☒ Hands-free conversation function activation
- ☒ Silent listening function activation
- ☒ On board micro cameras activation
- ☒ Send messages to the mobile unit on board display
- ☒ Send messages to the mobile unit on board printer
- ☒ Mobile unit history downloading commands:
  - ☒ Last Km. history download
  - ☒ All history download
  - ☒ History and I/O download
  - ☒ All history, I/O and analog inputs download
  - ☒ History buffer reset
- ☒ Mobile unit alarm state reset
- ☒ GPS receiver reset
- ☒ Mobile unit total reset
- ☒ Mobile unit software release request
- ☒ Mobile unit activation/disactivation survival function
- ☒ Send new configuration to the mobile unit
- ☒ Mobile unit configuration import/export commands
- ☒ Mobile unit configuration printing
- ☒ On board actuations commands
- ☒ Callback commands
- ☒ Events definition window
- ☒ Print report definition window

## **VISUALIZATION FUNCTIONS**

- ☒ Main vehicle selection and visualization
- ☒ Vehicle fleet selection and visualization
- ☒ Automatic vehicle searching
- ☒ Best vehicle map detail searchig
- ☒ History visualization on map
- ☒ In/out map zooming

## **SERVICES**

- ☒ Create/modify target
- ☒ Automatic searching and visualization targets
- ☒ Selection and sending target to the mobile unit
- ☒ Link to target vehicle searching
- ☒ Link to target street searching
- ☒ Create/modify route
- ☒ Automatic searching and visualization routes
- ☒ Selection and sending route to the mobile unit
- ☒ Create/modify street
- ☒ Automatic searching and visualization streets

## **AVL MOBILE UNIT CONFIGURATION**

### **Communication channel**

- ☒ Telephone channel
- Network: ☒ GSM

- Baud rate: ☒ 300

### Monitoring Centre recall phone numbers:

- ☒ primary
- ☒ secondary

### Customer recall phone numbers:

- ☒ primary
- ☒ secondary

### Short message system (SMS) GSM channel:

- ☒ SMS recall number
- ☒ User SMS recall number

### GSM data channel:

- ☒ primary data recall number
- ☒ secondary data recall number

### Hands-free system:

- ☒ enable hands-free use

### ☒ Radio channel:

- Baud rate: ☒ 1200
- Freq.1: ☒ (10 available tones)
- Freq.2: ☒ (10 available tones)
- Freq.3: ☒ (2 available tones)

### ☒ OrbComm channel:

- ☒ e-mail recall number

### **Alarm functions**

- ☒ Mobile unit reset or start of activity message
- ☒ GPS check:
  - ☒ GPS signal absence filter
  - ☒ GPS signal loss warning message
  - ☒ Integrate speedometer reading
- ☒ Target check:
  - ☒ Exit target warning message
  - ☒ Enter target warning message
- ☒ Route check:
  - ☒ Leave route warning message
  - ☒ Enter route warning message
- ☒ Time check:
  - ☒ Out time warning message
  - ☒ In time warning message
- ☒ Proximity check:
  - ☒ Leave area warning message
  - ☒ Enter area warning message
- ☒ Speed check:
  - ☒ Low speed limit message
  - ☒ High speed limit message
- ☒ Polling:
  - ☒ Polling from mobile unit
  - ☒ Polling from C.B.S.
  - ☒ Automatic history download from C.B.S.
- ☒ Fuel consumption/time check:
  - ☒ Send a message every (??)Km
  - ☒ Send a message every (??)Litre/(??)Minute
  - ☒ Pulse per Litre
- ☒ Retry cycles:
  - ☒ Send SMS on cycle failure

### **Configuration**

- ☒ Analog sensor num.1
- ☒ Analog sensor num.2
- ☒ Physical inputs configuration
- ☒ Timers configuration
- ☒ Counters configuration
- ☒ Physical outputs configuration
- ☒ Logical outputs configuration
- ☒ Twenty I/O logical functions:
  - ☒ Logical "masks and bonds"
  - ☒ Activation commands
  - ☒ Call conditioned by "masks and bonds"
- ☒ Pin code function configuration
- ☒ Extended Pin code function
- ☒ On board micro cameras configuration
- ☒ Mobile unit type model configuration
- ☒ Privacy function management
- ☒ Mobile unit history configuration
- ☒ Mobile unit display configuration
- ☒ Pre-loaded messages configuration
- ☒ Status LED indication management
- ☒ Mobile unit terminal management
- ☒ Mobile unit "wake-up" configuration
- ☒ Three different power consumption levels
- ☒ On board AK TST accessory management
- ☒ On board AK KEY accessory management
- ☒ DTMF functionality enable
- ☒ "Initial state of the outputs" function
- ☒ On board printer management
- ☒ Mobile unit memory management
- ☒ Variable code function enable

### **INFORMATION**

- ☒ Add mobile unit to archive
- ☒ Add driver information to archive

### **HISTORY**

- ☒ Show history trail on map:
  - ☒ Show history in "step-by-step" mode
  - ☒ Show history in "back and forth" mode
- ☒ Print of the history trail
- ☒ External memory card reader management
- ☒ External AK KEY reader management

### **MAP**

- ☒ Map geo-referencing procedure:
  - ☒ "Point-Angle-Scale" method
  - ☒ "4 points" method
- ☒ Open map
- ☒ Save map

### **TOOLS**

- ☒ Program access password
- ☒ Operator changing function
- ☒ "Note" operator function
- ☒ "Intra GPS" function
- ☒ "Intra GPS" mail procedure function
- ☒ Automatic macro procedure function
- ☒ Manual macro function
- ☒ "Disaster recovery" general update function