

FOX^{AVL}[®]



System **Modularity**

Navigation display and communication terminal

Geneko's Fox AVL is designed as a modular system and it is possible to adapt it according to users' needs. Fox system is based on Fox hardware module, which is the minimum for the system to operate properly, namely to collect data on vehicle function and position and to send them to a central database of monitoring center. In addition, it is possible to add other modules that facilitate the system usage, add new levels of security, or increase its functionality. The most important characteristic of the system is its interaction with navigation display and communication terminal.

The navigation display is an additional module of Fox system, classic touch screen, which contains maps and navigation software. Owing to software that Geneko developed, this navigation display provides two-way communication and additional services. Driver can use navigation from this device to arrive on destination, and it is possible to give him a direct

instruction to download certain routes remotely through Fox while driving. A message for taking a certain route is sent from monitoring center over the system. The message arrives to navigation display and driver can confirm the reception of instruction by pressing the button on the screen. Route changes automatically so the driver, for example, would take a new shipment.

Another innovation in Geneko's AVL system is a communication terminal. Fox has already had voice communication, but only through Voice set (speakers and microphone), which were additionally built-in. A separate communications terminal is now available as a module, which enables classic voice communication. The driver can make or receive calls over the GSM network as on every phone. He can receive or send SMS, or receive vehicle status information on display. Communication terminal has its own memory for phone numbers and call list.

Navigation display Actis 7

Navigation device ACTIS 7 with preinstalled navigation software Pocket Navigator 10 (with 3 years free map upgrades) offers applications for spare time - audio and video player, photo viewer, a card game, calculator and notepad. You can send text messages, assign new destinations from your dispatching central.

Advantages

- Big 7 inch hi-resolution display
- Supports external TMC receiver
- Also works as display for rear camera
- Video input
- FM transmitter - transmits voice guidance into your radio receiver

Voice guidance

- Intuitive voice navigation in different languages
- Door to door route planning across Europe
- Cross-border routing without the need to switch between countries or to a less detailed map
- Overview of the upcoming manoeuvre and distance shown on the screen
- ETA to your destination

GPS satellite navigation

- 2D/3D mode allows realistic visual map display
- Day/night modes switch colour schemes for day or night time driving
- Map rotates in driving direction, or north up

Speed cameras

- Hear audible warnings as you approach speed cameras

Searching

- Searchable index of 11,480,000 streets
- Over 2,760,000 points of interest
- Find nearest points of interest
- Postcodes for Europe (in most countries)

Features

- Odometer keeps a track of private and business mileage
- Add your own favourites and organise them into different categories
- Routing modes for car, pedestrian, truck
- Route avoidance - block off certain road from your route
- Import your databases into the map
- Import directly from xls, dbf, Access, ArcInfo, MapInfo files or other ODBC sources

Detailed seamless vector map of Europe

Andorra, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Vatican
And drive through maps of Albania, Belarus, Bosnia and Herzegovina, Macedonia, Moldova, Romania, Ukraine

Navigation device Actis 7

Technical specification

CPU	Monahan 624MHz
ROM	128 MB Nand Flash
RAM	64 MB DDRAM
GPS Module	SiRFStar III
Display	7" TFT Touchscreen LCD
Resolution	800 x 480 pixels
Video player	AVI, DIVX, MPEG4, MP4, M4A, MPEG, MPG, MPV, DTA
Audio player	MP1, MP2, MP3, MPA, MKV, MKA, OGG, OGM
Photo viewer	JPG, TIF, PNG
Memory Expansion	SD / Multimedia Card Slot
Serial Port	TTL
USB Connector	USB 2.0 Host and USB Client 1.1
A/V input	For connecting external video player
SIO	1 port
Rear Camera	Optional
TMC receiver	Optional
Power Supply	12V/24V 1.5 A PMIC
Dimensions (W x H x D)	188 x 120 x 25 mm

Communication Terminal

Multi-purpose communication terminal is a device for voice communication between a driver and its monitoring center or supervisor during the driving, as well as receiving and sending official text messages. Communication terminal is connected to Fox AVL device through which communication is realized over the GMS network. It is equipped with graphical monochrome display, 128x64 pixels and numeric telephone keypad with 21 keys.

Main features

- Receiving the official text messages via SMS or GPRS channel from authorized phone numbers
- Displaying text messages on the terminal display
- Sending confirmation that the driver read the official message
- Replying to official messages via SMS or GPRS channel
- Creating messages using the numeric phone keypad
- Receiving voice calls from authorized telephone numbers
- Calling of authorized call numbers from the phone book
- Displaying the status of AVL equipment and vehicles on terminal display
- Directory capacity – 160 numbers
- Messages capacity – 100 messages

Phone book

- Read the phone book
- Input
- My phone numbers
- Quick dial phone number overview

Message

- Inbox
- Outbox
- Edit new message
- Default pre-set message

Call Record

- Missed call
- Received call
- Dialed call

Call Divert

- Divert all calls
- Divert if busy
- Divert if no answer
- Divert if unreachable
- Cancel all diverts

Security

- Password Setting
- Keypad lock
- Factory default setting

Fox FMS functions scheme

