



mobiles



# Alan HM

A complete range of open, flexible mobile radios.



The wide range of mobile radios Alan Professional has been enhanced with 2 new models: HM06basic and HM70 system. Designed in Italy to meet flexibility and expandability requirements, the whole Hm range meets the severe **Military standard** and depending on version, is **type approved for voice and data**.

The customizable firmware and the optional plug-in boards such as the modem and the GPS receiver, provide the most efficient configuration according to diversified needs. The front panel design, characterizes the whole range, ensuring unequalled audio quality.

The system mobiles **HM35** and **HM70** are equipped with large graphic display, variable selcall and detachable front panel, HM135S the essential version is characterised by medium display and fixed selcall, **HM106** the basic version has 2 digit display and CTCSS.



Extra high audio quality



Maximum flexibility



Waterproof



Wide band



MIL 810 C D E F



HM06 basic



HM35S essential



HM35/HM70 system

Highlights:



**HM06**

- > 135-174 MHz
- > Signalling - CTCSS & DCS
- > 99 channels
- > 2 digit display
- > Flash CPU

- > MIL 810 c,d,e,
- > ETS 300-086 & 113



**HM135S**

- > 135-174 & 405-470 MHz
- > Signalling - CTCSS & DCS+fixed 5tones
- > Detachable front panel
- > 32 channels
- > 2 digit + 8icon display
- > expandable via plug in scrambler,VOX/compander board
- > Talk Around
- > Kill/revive
- > Public address
- > **Channel selection available via external peripheral connected via DB25 connector**
- > MIL 810 c,d,e,
- > ETS 300-086 & 113



Expandable\*



Detachable front panel



**HM135**

- > 135-174 MHz 405-470 MHz
- > **Address Book**
- > Signalling - CTCSS & DCS+variable 5tones
- > Detachable front panel
- > 255 channels
- > Large graphic display 120x32 dot
- > expandable via plug in GPS,modem board
- > Talk Around
- > Kill/revive
- > Public address
- > MIL 810 c,d,e,
- > ETS 300-086 & 113



Expandable\*



Detachable front panel



**HM70 NEW**

- > 66-88 MHz
- > **Address Book**
- > Signalling - CTCSS & DCS+variable 5tones
- > Detachable front panel
- > 255 channels
- > Large graphic display 120x32 dot
- > expandable via plug in GPS, modem board
- > **Noise blanker**
- > Talk Around
- > Kill/revive
- > Public address
- > MIL 810 c,d,e,
- > ETS 300-086 & 113



Expandable\*



Detachable front panel

\* Expansion slot. Type approved for voice and data

Try the rich range of accessories created for HM range!



Among the available accessories, the touch screen MDT4000 allowing for a better management of messages and alarms as well as mobile office applications based on Windows XP, NT embedded, Windows CE.net or LINUX.

**DB25 connector**

Available as standard, in the whole range provides the connection, to data terminal, modem or Personal computers.

## Main advantages



### HM06 basic

Practical and functional without compromises in flexibility and quality

- › **2 digit display**
- › **4 assignable function keys**
- › **Frontal, 4W Loudspeaker**  
Ensures clear audio quality even in case of dash installation. Allows the connection to an external loudspeaker (max 10W)
- › **Scan & Priority scan**
- › **Talk around**  
Temporary simplex operation on a duplex channel
- › **Flash Memory**  
Supports the update and upgrade of the system via Personal Computer, according to customised operational requirements
- › **MIL STD 810 C D,E, F AND IP54**  
Complying to the severe MIL standard for resistance to the entrance of dust, water, sparks, shocks, vibrations, allowing for operational efficiency even in case of harsh environment

### HM35S Essential

Well balanced and selective, the right mix between performance and power.

#### Adds to the HM06 performance:

- › **2 Digit +8 Icons display** › **Inbuilt fixed**  
Selcall with 5 different sequences per channel
- › **Personal selcall providing non-standard format**
- › **Detachable front panel** Compact and quick in-vehicle installation. Only the front panel is installed inside the vehicle
- › **Emergency call enabling single and automatic repeat function.**
- › **Standard DB25 accessory connector** Positioned in the rear side of the radio body, it allows the connection to external devices for the control of additional output/input and modems, GPS and PC
- › **Scrambler,**
- › **Boot loader**  
**Provides quick upload of personal firmware via the frontal mike connector**
- › **Kill Revive. The radio may be enabled and disabled in case of thefts.**

### HM35/HM70 system

Top range Performance

#### Adds to the HM35S performance:

- › **Large graphic LCD display**  
The series HM35 is equipped with the largest graphic display available on the market: 120x32dot. It allows the display of non standard font set (i.e.Cyrillic), bigger fonts or images (bitmap). (Firmware modifications are required)
- › **4 assignable function keys + menu + up/down buttons.**  
By programming, the user can assign different functions to each key. The display will then indicate a proper icon correspondent to the selected function
- › **Address Book.** The call code is associated to a name
- › **Call queue**
- › **Noise blanker circuit.** Cleans up audio signals making for clearer conversations.
- › **Modem control**  
**Kill Revive. The radio may be enabled and disabled in case of thefts.**

## Exclusive functions:



Adds to the standard HM35 version the board incorporating GPS receiver and modem MDM35/ GPS which allows for

- vehicle tracking
- automatic or on-demand fix sending to the control station

- shows the free text messages sent from control station on the large alphanumeric display
- network Log in and log out

In addition, the Customisable logic board ensures **compatibility with major existing Taxi systems.**

## Frequency band Models/codes

|     |            |                   |                                 |              |
|-----|------------|-------------------|---------------------------------|--------------|
| VHF | 135÷174MHz | <b>HM135 VHF</b>  | cod. G934 large graphic display | 255 channels |
|     |            | <b>HM135S VHF</b> | cod. G1022 medium display       | 32 channels  |
|     |            | <b>HM106</b>      | cod. G997 small display         | 99 channels  |
| UHF | 405÷470MHz | <b>HM70</b>       | cod. G1101 large display        | 255 channels |
|     |            | <b>HM435 UHF</b>  | cod. G935 large graphic display | 255 channels |
|     |            | <b>HM435S</b>     | cod. G1023 medium display       | 32 channels  |

plug-in boards



**100348 - ISHM35**  
Simple inversion scrambler board, single inversion frequency

**G1100 - CV35**  
Vox/compander circuit



**G1064 - MDM35-230**  
FFSK ETS300-230 Modem board  
Baut rate: 1200bit/sec



**G1063 - MDM35**  
FSK/FFSK Modem board  
Operating in FSK, FFSK mode, it also recognizes NMEA string.  
It can be associated to a GPS receiver.



**G1063.01 - MDM35 GPS**  
FSK, FFSK modem board with GPS

remote control



**G1016**  
Remote control kit including 5m extension cables, brackets,  
screws

programming kit  
and service

**G405 - BNC25** antenna connector

**R71258** belt clip

**G911** screw driver suitable for SMA antenna connector

**G759 - PRG25** programming kit

**603628 - MSHP25/35** service and programming manual

**G879 - PRG05** programming kit

**G966 - PRG06** programming kit

**603444 - MS105/405** service and programming manual

**603712 - MS106/406** service and programming manual

**603485 - MS446** service and programming manual

**G968 - PRGHM/35/35S** programming kit

**603729 - MSHM35** service manual

**G1069 - PRG450** programming kit

**603749 - MSHM35S** service manual

**603782 - MSHP450** service manual