mobiles
The wide range of mobile radios Alan Professional has been enhanced with 2 new models: HM06 basic 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
- Extra high audio quality
- Maximum flexibility
- Waterproof
- Wide band
- MIL 810 C, D, E, F
Highlights:

HM06
› 135-174 MHz
› Signalling - CTCSS & DCS
› 99 channels
› 2 digit display
› Flash CPU

› MIL 810 c,d,e,
› ETS 300-086 &113

Expandable* Detachable front panel

HM135S
› 135-174 & 405-470 MHz
› Signalling - CTCSS & DCS+fixed tones
› 2 digit display
› 32 channels
› 2 digit + Bicon 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 Stones
› 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 Stones
› 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:

HM35S
- 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
- Refresh external partner calls to other stations:
  - 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

<table>
<thead>
<tr>
<th>Frequency band</th>
<th>Model</th>
<th>Code</th>
<th>Channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHF 135÷174MHz</td>
<td>HM135 VHF</td>
<td>G934</td>
<td>255</td>
</tr>
<tr>
<td>VHF 135÷174MHz</td>
<td>HM135S VHF</td>
<td>G1022</td>
<td>32</td>
</tr>
<tr>
<td>VHF 135÷174MHz</td>
<td>HM106</td>
<td>G997</td>
<td>99</td>
</tr>
<tr>
<td>66÷88MHz</td>
<td>HM70</td>
<td>G1101</td>
<td>255</td>
</tr>
<tr>
<td>UHF 405÷470MHz</td>
<td>HM435 UHF</td>
<td>G935</td>
<td>255</td>
</tr>
<tr>
<td>UHF 405÷470MHz</td>
<td>HM435S</td>
<td>G1023</td>
<td>32</td>
</tr>
</tbody>
</table>
### Plug-in Boards

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100348</td>
<td>ISHM35 Simple inversion scrambler board, single inversion frequency</td>
</tr>
<tr>
<td>G1100</td>
<td>CV35 Vox/compander circuit</td>
</tr>
<tr>
<td>G1064</td>
<td>MDM35-230 FSK ETS300-230 Modem board</td>
</tr>
<tr>
<td></td>
<td>Baud rate: 1200 bit/sec</td>
</tr>
<tr>
<td>G1063</td>
<td>MDM35 FSK/FFSK Modem board</td>
</tr>
<tr>
<td></td>
<td>Operating in FSK, FFSK mode, it also recognizes NMEA string.</td>
</tr>
<tr>
<td></td>
<td>It can be associated to a GPS receiver.</td>
</tr>
<tr>
<td>G1063.01</td>
<td>MDM35 GPS FSK, FFSK modem board with GPS</td>
</tr>
</tbody>
</table>

### Remote Control

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1016</td>
<td>Remote control kit including 5m extension cables, brackets, screws</td>
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</tbody>
</table>

### Programming Kit and Service

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>G405</td>
<td>BNC25 antenna connector</td>
</tr>
<tr>
<td>R71258</td>
<td>Belt clip</td>
</tr>
<tr>
<td>G911</td>
<td>Screw driver suitable for SMA antenna connector</td>
</tr>
<tr>
<td>G759</td>
<td>PRG25 programming kit</td>
</tr>
<tr>
<td>G879</td>
<td>PRG05 programming kit</td>
</tr>
<tr>
<td>603628</td>
<td>MSHP25/35 service and programming manual</td>
</tr>
<tr>
<td>G966</td>
<td>PRG06 programming kit</td>
</tr>
<tr>
<td>G1063.01</td>
<td>MDM35 GPS FSK, FFSK modem board with GPS</td>
</tr>
<tr>
<td>603712</td>
<td>MS106/406 service and programming manual</td>
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<tr>
<td>603444</td>
<td>MS105/405 service and programming manual</td>
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<td>603485</td>
<td>MS446 service and programming manual</td>
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<td>603729</td>
<td>MSHM35 service manual</td>
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<td>603749</td>
<td>MSHM35S service manual</td>
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<td>603782</td>
<td>MSHP450 service manual</td>
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<td>MSHM35 service manual</td>
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<td>MSHP450 service manual</td>
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*Note: The text is extracted from the image, ensuring that the structure and content are accurately represented.*