07.30

10.30

14.30

# 2010 Radio Catalogue
## 24 HOURS IN COMMUNICATION

17.30

21.30

## MIDLAND ®

**1**

## PMR446/Dual band Transceivers

Two way radios you can use anywhere, at any time, for free.

PMR446 and Dual Band Transceivers are the best way **to communicate for free with anyone**.
Communications are "immediate", without the need to dial numbers or rely on ringtones or other procedures.
All users on the same frequency channel receive the call when you make it and can respond one at a time.
**Just press the PTT button (Push-To-Talk) dedicated to transmission and talk!**
Midland transceivers are **easy to use**, lightweight and compact, with engaging design, enabling you to communicate easily with many people ..saving you money and time.
PMR446 devices operate on frequencies within 446 Mhz (8 channels) and have 500mW transmission power.
Dual Band equipment, work on two bands, the PMR446 and the LPD band which is within 433 Mhz (69 Channels) with output power about 10mW.

1-2 km   4-6 km   12 km+

**Coverage**
The maximum range **depends on terrain condition** and is obtained when used in an open space.
The only limitation to maximum possible range are environmental factors such as blockage caused by trees, buildings, or other obstructions. Inside a car or a metallic construction, the range can be reduced. Normally the coverage in the city, with buidings or other obstructions is about **1 or 2 Km**. In open space but with obstructions like trees, leafs or houses the maximum possible range is about **4-6 Km**. In open space, without obstructions and in sight, like for example in the mountains, the coverage can be **more than 12 Km**.

## Citizen Band Transceivers

**2**



## VHF Marine Transceivers

**3**

**MIDLAND**®

**1**

PMR446/Dual-Band Transceivers

MIDLAND®

08 CHANNELS
PMR446

69 CHANNELS
LPD

16 PREPROG

100110 010101
CTCSS/DCS

Waterproof

Emergency

HI LOW
Dual PTT

Call

Watch

Out of range

Vox Talk Back

Vibracall

Scan

M
Monitor

BATT.PACK
Battery type

AA TYPE
Battery type

2 pin

# Midland G9

## The new radio with GREAT performances. Double PTT, to transmit in high or low power

### Versions
**G9:** Dual-Band PMR446/LPD
**G9E:** PMR446

### Colour
**Black**

### Channels
**Dual-Band:** PMR446 8 + 16 pre-programmed/LPD 69
**PMR446:** 8 + 16 pre-programmed
**Tones:** 38 CTCSS + 104 DCS

NEW

### Dual PTT key to choose high or low output power
Thanks to this feature, it is possible to optimize the battery charge by transmitting with high power only when necessary.

### Emergency function
the "Emergency" button allows you to reach all the radios in range even if tuned on different channels.

### Main features
› Dual PTT key for a high or low output power
› Emergency function
› **Waterproof: IPX5**
› 12 cm antenna to take best advantage of the output power of the radio
› Out of range function
› Vox Talk Back function
› VOX adjustable on 3 levels, the 4th is "the Talk Back function"
› Vibracall function
› Keypad lock
› Auto power save: automatic current economy circuit
› Discharged battery indicator
› Dual Watch fuction
› SCAN function
› CALL button with 5 selectable tones
› Monitor function
› Roger Beep: end transmission tone
› High/low power selection
› LCD display with backlight
› **2 Pin accessories jack**
› **Compatible wall charger: MW904**

### Packaging and codes
**G9 Box:**
Box with 1 radio, desktop charger with wall adaptor,
4 AA rechargeable batteries (1800 mAh), belt clip
**code C923 Dual-Band version (PMR446/LPD)**
**code C923.01 E version (PMR446 only)**

G9

X-TRA TALK

CALL

EMG

MENU

MIDLAND

MIC

H2O WATERPROOF

# Midland G7 XT

## Practicality and robustness

### Versions
**Midland G7 XT:**
Dual-Band PMR446/LPD
**Midland G7E XT:** PMR446

### Colours
**Gray/Black**
**Mimetic Mossy Oak**

### Channels
**Dual-Band:**
PMR446 8/LPD 69
**PMR 446:** 8
**Tones:** 38 CTCSS

08 CHANNELS
PMR446

69 CHANNELS
LPD

100110 010101
CTCSS/DCS

♫
Call

Vox

Vibracall

M
Monitor

BATT.PACK
Battery type

AA TYPE
Battery type

2 pin

Mimetic version,
original Mossy Oak®

### Packaging and codes

**G7XT Mimetic, single box:**
1 Radio, wall charger, 4 recharge-
able batteries Ni-MH AA 1,2V/1800
mAh, belt clip
**code C776.13 Dual-Band version**

## Main features

› Vibracall
› Keypad lock
› Auto power save: automatic battery saving circuit
› Low battery indicator
› VOX adjustable on 3 levels for hands-free communications
› Dual Watch
› CALL with 5 selectable tones
› SCAN
› Monitor
› High/Low power selection
› Roger Beep: end transmission tone
› LCD Display with backlight
› Operates with: Battery pack or 4 batteries AA
› **Audio accessory jack: 2 Pin**
› **Compatible wall charger: MW904**

### Packaging and codes

**G7XT Blister Box:**
Transparent blister box with 2 radios, two slot desktop charger, wall charger, 2 battery packs (800mAh), belt clips
**code C776.10 Dual-Band version (PMR446/LPD)**
**code C776.14 E version (PMR446 only)**
**code C776.11 - E version "UK" (PMR446 only)**

**G7XT Box single box:**
1 Radio, wall charger 4 rechargeable batteries Ni-MH AA 1,2V/1800 mAh, belt clip
**code C776.12 Dual-Band version**

MIDLAND®

08 CHANNELS
PMR446

91 PREPROG

100110
010101
CTCSS/DCS

+
Emergency

Scrambler

Time Out Timer

CH
Busy channel
lock out

Vox

Scan

Battery level

Programmable

BATT.PACK
Battery type

2 pin Kenwood

# Midland G14

Robust and programmable, with the Emergency function.
Great performances, for the most demanding users.

### Version
**G14:** PMR446

### Colour
**Black with red insert**

### Channels
**PMR 446:** 8 + 91 pre-programmed
**Tones:** 50 CTCSS + 105 DCS norms or inverts

### New "scrambler" function:
assuring safe and secure comunication

### Programming software
› Transmission power can be customised
› Channels and frequencies can be customised
› Specific functions can be enabled or disabled

### Main features
› Scrambler function
› Scanning on all channels and "Priority Scan"
› Emergency function
› VOX function (free hands trasmission)
› Busy Channel Lock Out
› Time-out Timer function (TOT)
› Auto power save: automatic battery saving circuit
› High/low power selection
› Backlit LCD display with choice of three different colours
› Keypad lock to avoid accidental pressure on keys
› Low battery indicator
› **Accessories jack for 2 pin KENWOOD**

### Packaging and codes
**G14 Box:**
Box with 1 radio, desktop charger, wall charger,
Li-Ion rechargeable battery pack (1200 mAh), belt clip
**code C901**

### Programming software
### PRG G14
**code C902**

NEW

# Midland G8

## Rugged and compact, Waterproof IPX5. With new "Emergency" function

**NEW**

## Versions
**G8:** Dual-Band PMR446/LPD
**G8E**: PMR446

## Colour
**Metal gray/Black**

## Channels
**Dual-Band:**
PMR446 8 + 16 pre-programmed/LPD 69
**PMR446:** 8 + 16 pre-programmed
**Tones:** 38 CTCSS + 104 DCS

### "Emergency" function:
Just press the "EMG" button to transmit an emergency call and talk to all the G8 radios in range, even on different channels.

### "Out of range" function:
Just press a button to send a request and check if there are other radios in range.

### "Vox TalkBack" function:
Even if the radio is still transmitting on VOX (Voice Activated Transmission), you can talk back.

### Intercom Moto
The intercom jack makes G8 the ideal solution for motorbike use.

## Main features
› **Waterproof: IPX5**
› Emergency call
› Intercom
› Vibracall
› Keypad lock
› Auto power save: automatic battery saving circuit
› Low battery indicator
› VOX adjustable on 3 levels, with "TalkBack"
› Dual Watch
› CALL with 5 selectable tones
› SCAN
› Monitor
› Out of Range
› Roger Beep
› High/Low Power selection
› Backlit LCD Display
› Operates with: Battery pack (or 4 opt. AAA batteries)
› **Audio accessory jack: 2 Pin**
› **Compatible wall charger: MW904**

## Packaging and codes
**G8 Box:**
Box with 1 radio, desktop charger, wall charger, rechargeable battery pack (800 mAh), belt clip
**code C832 Dual-Band version (PMR446/LPD)**
**code C832.01 E version (PMR446 only)**
**code C832.02 E version "UK" (PMR446 only)**

H2O WATERPROOF

08 CHANNELS PMR446
69 CHANNELS LPD
16 PREPROG
100110 010101 CTCSS/DCS
Waterproof
Emergency
Intercom
Call
Dual Watch
Vox Talk Back
Scan
M Monitor
Vibracall
Hi/Low Power
BATT.PACK Battery type
AAA TYPE Battery type
2 pin

*7. Consumer Radio*

®MIDLAND

08 CHANNELS
40 PREPROG
100110 010101 CTCSS
Baby sitter
BATT.PACK
Battery type
AAA TYPE
Battery type
2 pin

# Midland G6 XT

With the new **Baby Sitting** function, reliable and easy to use

### Version
**G6 XT:** PMR446

### Colour
**Black**

### Channels
**PMR 446:** 8 + 40 pre-programmed
**Tones:** 38 CTCSS

### Main features
› Baby Sitting function with dedicated channels
› Keypad Lock
› Auto power save
› Low battery indicator
› VOX adjustable on 3 levels + Vox Talk Back
› CALL with 5 selectable tones
› SCAN
› Monitor
› Out of Range
› Roger beep
› LCD display with backlight
› Operates with: Battery pack (or 4 AAA batteries opt.)
› **Audio accessory jack: 2 Pin**
› **Compatible wall charger: MW904**

NEW

### Packaging and codes
**G6 XT Blister Box:**
Transparent blister box with 2 Radio, two slot desktop charger,
2 battery packs (600mAh), wall charger, belt clips.
**code 830.08**

08 CHANNELS
18 PREPROG
100110 010101 CTCSS
Baby sitter
AAA TYPE
Battery type
2 pin

# Midland G5 XT

Equipped with the new **Baby Sitting function**, with rubber finish

### Version
**G5 XT:** PMR446

### Colour
**Black**

### Channels
**PMR 446:** 8 + 16 pre-programmed
**Tones:** 38 CTCSS

NEW

### Main features
› Baby Sitting function with dedicated channels
› Keypad Lock
› Auto power save
› Low battery indicator
› VOX adjustable on 3 levels + Vox Talk Back
› CALL/SCAN/Monitor
› Roger beep
› LCD display with backlight
› Operates with: 3 batteries AAA
› **Audio accessory jack: 2 Pin**
› **Compatible wall charger: MW904**

### Packaging and codes
**G5 XT Blister:**
Blister with Radio pair, 2 wall chargers, 6 AAA rechargeable batteries,
2 belt clips, 2 wrist bands
**code C897**

# Midland G8 Valibox

## Work & Hobby version.
## Designed for daily time use in working places.

The VALIBOX package, contains in a functional and knocks-resistant box a **full optional equipment**: a couple of G8 transceivers, 2 desktop charger with wall adaptors, 2 battery packs, 2 car chargers, 2 amplified microphones.

**It's the ideal solution in working places for best team work management**.

### Packaging and codes

**G8 Valibox full optional**:
2 G8 radios, 2 desktop charger with wall adaptors,
2 800mAh rechargeable battery packs, 2 car chargers,
2 amplified microphones.
**code C832.03 Dual-Band version (PMR446/LPD)**
**code C832.04 E version (PMR446 only)**

NEW

# Midland G5 XT Valibox

## Work & Hobby version.
## Practical box allows you to take your radios everywhere.

The EVA Box packaging allows you to have in a practical case: G5 XT pair, 2 wall chargers, 6 batteries, 2 microphones with earphones and travel power supply.

### Packaging and codes

**G5 XT EVA Box full optional:**
G5 XT radio pair, 2 wall chargers, 6 rechargeable AAA batteries,
2 microphones with adjustable headset and PTT, 2 travel power supplies 12V.
**code C897.01**

NEW

MIDLAND®

08 CHANNELS
PMR446

69 CHANNELS
LPD

100110
010101
CTCSS/DCS

♫
Call

⤭
Dual Watch

Vox

Scan

M
Monitor

Vibracall

Hi/Low Power

BATT.PACK

Battery type

1 pin

# Midland 777

## A real gem of radio, for everyday use

### Versions

**Midland 777:**
Dual-Band PMR446/LPD
**Midland 777E:** PMR446

### Colours

**Black**

**White**

### Channels

**Dual-Band version:**
PMR446 8/LPD 69
**PMR 446:** 8
**Tones:** 38 CTCSS

### Packaging and codes

**Midland 777 Blister**:
Transparent blister with radio pair, double desktop charger, 1 wall charger with double plug, 2 lithium 650mAh battery, belt clips, neck straps.
**code C724.19 Dual-Band version, black**
**code C724.21 Dual-Band version, white**
**code C724.22 E version (PMR446 only) black**
**code C724.23 Dual-Band UK version, black**

### Main features

› Vibracall
› Keypad lock
› Auto power save: automatic battery saving circuit
› Low battery indicator
› VOX adjustable on 3 levels for hands-free communications
› Dual Watch
› CALL
› SCAN
› Monitor
› Roger beep
› High/Low Power
› Blue backlit LCD Display
› Operates with: Lithium battery pack 650mAh
› **Audio accessory jack: 1 Pin 2,5 mm stereo**
› **Compatible wall charger: MW905**

**Limited edition:**
Metal case with radio pair, 2 earphones, double desktop charger, 1 wall charger with double plug, 2 lithium batteries 650mAh, belt clips, neck straps.
**code C724.20 Dual-Band version, black**
**code C724.24 E version (PMR446 only), Black**

# Midland 777TR
# Multiple Charger Case 777TR

Tourist Radio version, for tourist groups,
with recharging case for 30 receivers

**NEW**

**Midland 777TR** is the ideal solution to manage the group communication connected with guided tours.
The radios are mechanically locked to allow use in reception only and can be set only prior to being used.

There are 8 Channels available on PMR446 band and 69 for the LPD band. This allows the management of various groups without interferences. In addition the 38 CTCSS tones can also be used, allowing you to create new personal channels.
The tour guide can use any model PMR446/LPD radio to communicate with the group.

## Version
**Midland 777TR:** Dual-Band PMR446/LPD

## Colour
**Black**

## Channels
**Dual-Band:** PMR446 8/LPD 69
**Tones:** 38 CTCSS

## Main features
› Dualband receiver
› Keypad lock
› Auto power save: automatic battery saving
› Low battery indicator
› Dual Watch
› High/low power
› Backlit LCD display
› Power supply:
  Li-Ion 650mA battery pack
› **Accessories jack: 1 pin 2,5 mm stereo**
› **Compatible wall charger: MW905**

**MIDLAND 777TR** is supplied in carton containing 50 pcs and including waist clip, battery packs and collar bands.
**The chargers are not included.** They are sold in two different and separate solutions: multiple recharging case and double desktop chargers.

**Multiple charger case 777TR:**
practical suitcase branded Midland, capable of recharging up to 30 radios at once and includes the car charger cable and wall adaptor.

**Desktop charger 777TR 25pc:**
carton containing 25 double desktop chargers that allow recharging of up to 50 receivers 777TR.
The relative wall adaptors are also supplied.

## Packaging and codes
**Midland 777TR**
Carton containing 50 receivers, waist clips, battery packs and neck collars.
**code C724.27**

**Multiple Charger case 777TR**
Rigid black suitcase to recharge 30 Midland 777TR with car charger (13.8V) and wall adaptor cable (220V).
**code C922**

**Desktop charger 777TR 25pc**
Carton containing 25 double desktop chargers supplied with relative wall adaptors.
**code C921**

**08** CHANNELS
PMR446

**69** CHANNELS
LPD

**100110 010101**
CTCSS/DCS

Dual Watch

Scan

Vibracall

Hi/Low Power

BATT.PACK
Battery type

1 pin

**MIDLAND** ®

08 CHANNELS
PMR446

16 PREPROG

Marine

100110
010101
CTCSS/DCS

FM RADIO

ALARM CLOCK

... --- ...
SOS MORSE

FLASH LIGHT

DYNAMO CRANK

USB CHARGER

Call

Vox

Scan

M
Monitor

BATT.PACK
Battery type

AA TYPE
Battery type

2 pin

# Base Camp446

## Multi-task transceiver.
Ideal solution for Emergency and safety alert situations, with a built-in flashlight, SOS feature and dynamo crank.

**Base Camp446** is a **PMR446 transceiver**, an **alarm clock**, an **AM/FM radio** and a **VHF marine band receiver**. **Midland Base Camp446** has been designed to be a multi-task equipment.

**Base Camp446** is the ideal and daily solution for all outdoor activities, free time and also, for emergencies and situations requiring safety.

**Base Camp446** has a built-in **flashlight** and a built-in S**OS Morse signal function**, that allows the transceiver to send messages in code; **the dynamo crank** allows you to recharge the radio during a power blackout and through the **USB jack** it is possible to recharge also other devices (such as mobile phones or iPod/MP3 players) by the dynamo crank, AC or DC Adapter.

**Base Camp446** is equipped also with a **handheld microphone** for an easy and practical use.

## Version
**Base Camp446:**
PMR446 radio, AM/FM receiver, VHF marine band receiver

## Colour
**Metal Gray/Black**

## Channels
**PMR446**: 8 + 16 pre-programmed

**NEW**

## Main features
› PMR446 transceiver
› VHF marine band receiver
› Alarm clock- AM/FM radio
› SOS Morse signal
› Handheld microphone equipped
› Built-in Flashlight
› Dynamo crank battery charge capability
› Recharge USB jack
› Supplied 6V Ni-MH rechargeable battery pack
› Works also with Alkaline batteries
› **2 pin accessories jack**
› **Compatible wall charger: MW904**

## Packaging and code
1 Midland Base Camp446, 1 wall adaptor, 1 800mAh battery pack, 1 shoulder strap, 1 2 pin microphone and 12V charger.
**code C838**

EMERGENCY RADIO
SOS
DYNAMO RECHARGE

BASE CAMP

MIDLAND

# Alan HP450 2A

## PMR/PMR446 Radio for professional use

**Alan HP450 2A** has built in scrambler for reserved conversations and is supplied with e-vox, which is different from the traditional vox function because it can be activated without using external microphones.

The frame is made of diecast aluminium, it is certified IP67 for protection against immersion in water up to 1 mt depth and dust resistant.

Available in the spacious Eva box, a semirigid case ideal for housing the complete range of accessories provided.

### Versions
**Alan HP 450 2A:**
Dualband (PMR/PMR446)

### Colour
**Black/Camouflage**

### Channels
8 PMR446/91 preprogr.,
312 to program
**Tones**: 38 CTCSS+104 DCS

### Main features
› **Waterproof: IP67**
› MIL 810 C,D,E,F
› Emergency call
› Scrambler
› Keypad lock
› Auto power save: automatic battery saving circuit
› Battery low indicator
› Dual Watch
› CALL with 5 selectable tones
› SCAN
› Monitor
› Out of Range
› Roger beep
› High/low Power selection
› LCD Display with backlight
› **Operates with: Battery pack**
› **Audio accessory jack: 2 Pin**

### PRG450
Programming software complete with USB cable for PC
**code G1069**

### Optional accessories
Waterproof palm speaker/mike, gray
**SMK05/25 - G894**
Desktop rapid charger, black
**RC45 - G1066**
Rechargeable battery pack 2200 mAh Li-Ion, black
**BP4522 - G1068**
Rechargeable battery pack 1100 mAh NiMh, black
**BP4511 - G1067**
Microphone with adj. earphone and VOX/PTT
**MA 21-L - C709.03** (see page 18)
Microphone with earphone and PTT/Vox
**MA24 - C517** (see page 18)
Microphone with earphone and PTT/Vox
**MA28-L - C559.03** (see page 18)
Microphone with acoustic tube earphone and PTT/Vox
**MA31 - L - C732.03** (see page 18)
Action throat mic with tactical PTT and acoustic tube earphone
**ATM Tactical - C857** (see page 17)
Antenna connector
**BNC25 - G405**
Screwdriver in order to screw-unscrew the antenna connector
**Screw Driver G911**

SMK05/25      RC45      BP4522      BP4511

### Packaging and codes
**ALAN HP450 2A EVA Box**
EVA Box with 1 Radio, single fast desktop charger, wall charger, 1 battery pack, holster in rigid polycarbonate with swivel holster.
**code G1093.05**
**with battery pack 1100 mAh NiMH**
**code G1093.06**
**with battery pack 2200 mAh Li-Ion**

NEW

Action Mimetic version,
original Mossy Oak®
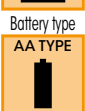
### Packaging and codes
**ALAN HP450 2A Action Mimetic EVA Box**
EVA Box with 1 Radio, single fast desktop charger, wall charger, 1 battery pack, holster in rigid polycarbonate with swivel holster.
**code G1093.10 Action Mimetic**
**with battery pack 2200 mAh Li-Ion**

H2O
WATERPROOF

**08** CHANNELS
**91** PREPROG
100110 010101 CTCSS/DCS
Waterproof
Vox
Power save
Battery level
Scrambler
Roger beep
Scan
Call
Dual Watch
Out of range
Hi/Low power
Programmable
BATT.PACK
Battery type
2 pin

MIDLAND®

08 CHANNELS

08 PREPROG

100110 010101
CTCSS/DCS

Scrambler

Dual Watch

Hi/Low power

Vox

Programmable

BATT.PACK
Battery type

AA TYPE
Battery type

2 pin

# Midland G12

## PMR446 semi-professional radio, compact and sturdy

### Version

**Midland G12:** PMR446

### Colour

Black

### Channels

**PMR 446:** 8 + 8 pre-programmed
**Tones:** 38 CTCSS+83 DCS

### Main features

› Scrambler / Vibracall
› Keypad lock
› Auto power save: automatic battery saving circuit
› Low battery indicator
› Dual Watch / SCAN
› CALL / Monitor
› Roger beep

› High/Low power selection
› Backlit LCD Display
› Reception signal indicator
› Operates with: Battery pack (or 3 batteries AA opt.)
› **Audio accessory jack: 2 Pin**
› **Compatible wall charger: MW905**

### Packaging and codes

**G12 Box:** Box with 1 radio, desktop charger, wall charger, 1800mAh Ni-MH battery pack, belt clip
**code C773**

### PRG-G12

Programming software complete with serial cable for PC.
**code C789**

08 CHANNELS

100110 010101
CTCSS/DCS

Dual Watch

Vox

BATT.PACK
Battery type

1 pin - 3,5mm

# Base 446

## The base station PMR446 for group communication and for work situations

### Version

**Base 446:** PMR446

### Colour

Black

### Channels

**PMR 446:** 8
**Tones:** 38 CTCSS

### Main features

› Fixed telescopic antenna
› Keypad lock
› Auto power save: automatic battery saving circuit
› Low battery indicator
› VOX adjustable on 3 levels for hands-free communications
› Dual Watch
› CALL with 10 selectable tones
› SCAN
› Monitor
› Roger beep
› LCD Display with backlight
› Operates with: 9V battery or wall adapter.
› **Audio accessory jack: 1 Pin 3,5 mm stereo** - You can use all the 2 pin audio accessories with the adaptor **code C651**

### Packaging and codes

**Base 446 Box**
Single radio with 220V wall adapter
**code G969**
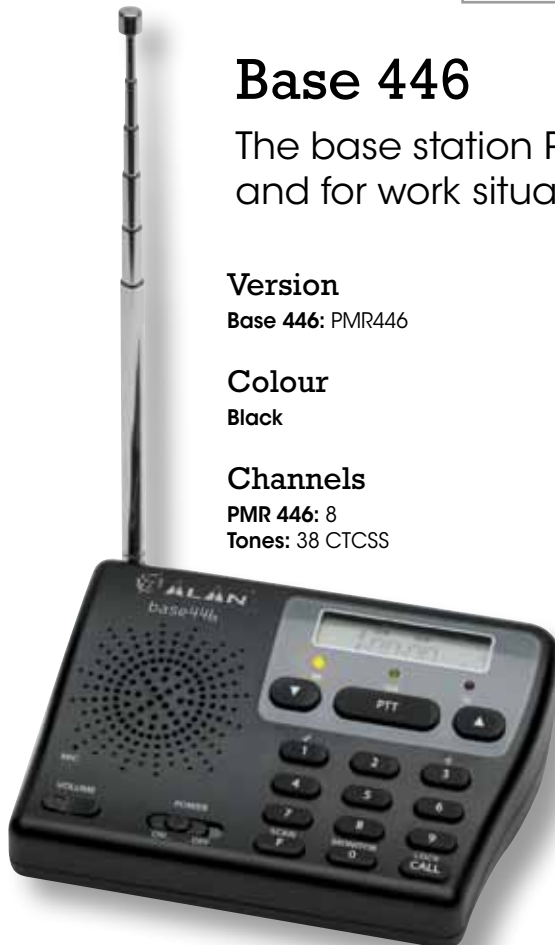
# Technical specifications

| Model | G9 | G7 XT | G14 |
|---|---|---|---|
| Band | PMR446-LPD (Dualband)/PMR446 only | PMR446-LPD (Dualband)/PMR446 only | PMR446 |
| Channels | Dualband 8 PMR446+16 pre-progr/69 LPD E Vers. 8 PMR446+16 pre-progr | 8 PMR446/69 LPD E vers. 8 PMR446 | 8 + 91 pre-programmed |
| CTCSS and DCS | 38 CTCSS, 104 DCS | 38 CTCSS | 50 CTCSS, 105 DCS |
| Vox | Adjustable on 3 levels + talk back | Adjustable on 2 levels | Adjustable on 3 levels |
| Operate with | 4 recharg. batteries AA 1800mAh or 4 AA alcaline (opt) | battery pack 800mAh or 4 AA rechargeable batteries | battery pack Li-Ion 7,4V (1200mAh) |
| Autonomy 5/5/90 | | Up to 18 hours with 800mAh BP | |
| Display | Backlit multi-function LCD | Backlit multi-function LCD | Backlit multi-function LCD |
| Transmission power | PMR446 500/10mW ERP (high/low) LPD 10mW | PMR446 500/10mW ERP (high/low) LPD 10mW | High (~500mW ERP) or Low (~10mW ERP) |
| Working temperature | -20° +55°C | -20° +55°C | -20° +55°C |
| Weight | 114 g (without batteries) | 123 g | 203 g (with batteries) |
| Dimensions (WxHxD) | 58x110x32mm | 58x122x34 mm | 50x100x33mm (without antenna) |
| Connections | Audio accessory jack, wall charger | Audio accessory jack, wall charger | Audio accessory jack |
| Accessory jack | 2 pin | 2 pin | 2 pin |
| Compatible wall charger | MW904 | MW904 | desktop charger only |

| Model | G8 | G6 XT |
|---|---|---|
| Band | PMR446-LPD (Dualband)/PMR446 only | PMR446 |
| Channels | 8 PMR446+16 pre-prog/69 LPD E Vers. 8 PMR446+16 pre-progr | 8 + 40 pre-programmed |
| CTCSS e DCS | 38 CTCSS, 104 DCS | 38 CTCSS |
| Vox | Adjustable on 3 levels + talk back | Adjustable on 3 levels + talk back |
| Operate with | battery pack 800mAh or 4 AAA recharg. or alcaline batteries (opt) | battery pack 600mAh or 4 AAA recharg. or alcaline batteries (opt) |
| Autonomy 5/5/90 | 12 hours, with battery pack 800mAh | 12 hours, with battery pack 600 mAh |
| Display | Backlit multi-function LCD | Backlit multi-function LCD |
| Transmission power | PMR446 500/10mW ERP (high/low) LPD 10mW | 500mW ERP |
| Working temperature | -20° +55°C | -20° +55° C |
| Weight | 114 g (without batteries) | 95 g (without batteries) |
| Dimensions (WxHxD) | 58x110x32mm | 55x100x28 mm |
| Connections | Audio accessory jack, wall charger + Intercom | Audio accessory jack, wall charger |
| Accessory jack | 2 pin | 2 pin |
| Compatible wall charger | MW904 | MW904 |

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| Model | G5 XT | Base Camp446 | Midland 777/777 TR |
|---|---|---|---|
| Band | PMR446 | PMR446 | PMR446-LPD (Dualband)/PMR446 only |
| Channels | 8 + 16 pre-programmed | 8 + 16 preprogrammati | Dualband 8 PMR446/69 LPD<br>E vers. 8 PMR446 |
| CTCSS e DCS | 38 CTCSS | 38 CTCSS, 83 DCS | 38 CTCSS |
| Vox | Adjustable on 3 levels + talk back | Adjustable on 3 levels + talk back | Adjustable on 2 levels |
| Operate with | 3 rechargeable batteries AAA Ni-MH | battery pack 800mAh, rechargeable through dinamo crank or AC/DC wall charger | battery pack Li-Ion 3,7V 650mAh |
| Autonomy 5/5/90 | Up to 35hours with alcaline batteries | 12 hours with 800mAh battery pack | Up to 21 hours with battery pack 650 mAh |
| Display | Backlit multi-function LCD | Backlit multi-function LCD | Backlit multi-function LCD |
| Transmission power | 500 mW ERP | High (~500mW ERP) or Low (~10mW ERP) | PMR446 500/10mW ERP (high/low)<br>LPD 10mW |
| Working temperature | -20° +55°C | -20° +55°C | -20° +55°C |
| Weight | 74 gr | 563 g (without batteries) | 58 gr |
| Dimensions (WxHxD) | 50x85x25 mm | 120x180x55 mm | 42x86x16 mm |
| Connections | Audio accessory jack, wall charger | Audio accessory jack, USB jack | Audio accessory jack, wall charger |
| Accessory jack | 2 pin | 2 pin | 1 pin - 2,5 mm stereo |
| Compatible wall charger | MW904 | MW904 | MW905 |

| Model | Alan HP450 2A | Midland G12 | Base 446 |
|---|---|---|---|
| Band | PMR/PMR446 | PMR446 | PMR446 |
| Channels | 8 + 91 pre-programmed | 8 + 8 pre-programmed | 8 |
| CTCSS e DCS | 38 CTCSS, 104 DCS | 38 CTCSS, 83 DCS | 38 CTCSS |
| Vox | Adjustable on 2 levels | Adjustable on 3 levels | Adjustable on 3 levels |
| Operate with | battery pack 1100/2200 mAh | battery pack NiMh 1800mAh<br>or 3 AA batteries (opt) | 1x 9V battery - wall adaptor |
| Autonomy 5/5/90 | - | Up to 28 hours with battery pack | - |
| Display | Backlit multi-function LCD | Backlit multi-function LCD | Backlit multi-function LCD |
| Transmission power | 500 mW ERP (livello high/low) | 500/10mW ERP (high/low) | 500 mW ERP |
| Working temperature | -20° +55°C | -20° +55°C | –20° +55°C |
| Weight | 180 gr (without batteries) | 115 gr | 270 gr |
| Dimensions (WxHxD) | 54x113x35 mm | 52x121x32 mm | 140x45x110 mm |
| Connections | Audio accessory jack | Audio accessory jack, charger | Audio accessory jack, wall adaptor |
| Accessory jack | 2 pin | 2 pin | 1 pin - 3,5 mm stereo |
| Compatible wall charger | desktop charger only | MW905 | included |

# Action Line accessories

## Dedicated to the Paintball and Airsoft/Skirmishing community

**ACTION LINE accessories** stand apart from competitor model, thanks to their strong cables, the close attention paid to detail and manufacturing quality.

**Note:** the Action Line accessories don't work with "VOX"

### Action throat mike with tactical PTT and acoustic tube earphone
**ATM Tactical code C857**
with L-type jack, 2 Pin

### Earphone/mike with adjustable boom and tactical PTT
**ABM Tactical code C855**
with L-type jack, 2 Pin
,

### Earphone mike with PTT
**A21M code C858**
with L-type jack, 2 Pin

### Earphone/mike with adjustable boom and PTT
**ABM code C856**
with L-type jack, 2 Pin

### Ear phone
**EP21 code C859**
with L-type plug, 1 Pin 3,5mm

For "listen only" use with G7

MIDLAND®

# Accessories

**Microphone with adjustable earphone and VOX/PTT (spiral wire)**

MA 21-D - C709

MA 21-L - C709.03

MA 21-SX - C709.02

MA 21-K - C843
Kenwood type

**Palm speaker/mike with volume knob and earphone jack**

MA 26 - L – C515.01

**Arm microphone with adjustable earphone and PTT/Vox**

MA 30 - L – C648.03

MA30-G5 - C648.02
(not compatible with Alan421)

**Microphone with acoustic tube earphone and PTT/Vox**

MA31 - C732

MA31 - L - C732.03

MA31SX - C732.02
(not compatible with Alan421)

MA31-LK - C732.04
Kenwood type

**Headphone with arm microphone**

MA 35 - L – C652.02

**Throat microphone headset with PTT and finger PTT**

AE38 - C823

**Microphone with earphone and PTT/Vox**

MA 24 - C517

MA 24-L - C517.02

**Microphone with earphone and PTT/Vox**

MA 28 - L – C559.03

MA28-G5 - C559.01
(not compatible with Alan421-G5XT)

**Microphone with adjustable arm**

AE30 - C851

## Bluetooth adapter

**BPA 200 - C900**
Bluetooth adapter with PTT for handheld radios - see page 52

NEW

## Bluetooth throat microphone headset

**Midland BT Sport**
Medium **C850.01**
Large **C850**

## Adapter

**C829**
to make all devices with 1 Pin - 2,5mm stereo jack compatible with 2 Pin accessories

**C651**
to make all devices with 1 Pin - 3,5mm stereo jack compatible with 2 Pin accessories

## Antennas and adapter

**G7 Flex - C646.01**
Length: 35 cm
**Compatible with**:
Midland G7 line, G8, G9, G14

## Double position desktop charger

**CA-ATL/G7 - C785**
**Compatible with**:
Midland G7 line

## Double position desktop charger

**CA 456 2S - C669**
with 6 rechargeable batteries 700mAh.
Charges 2 radios simultaneously

**Compatible with:**
PMR446: Alan451R, Alan456R
LPD: Alan516, Alan503

## Desktop charger

**RC05 - C663.02**
**Compatible with**: Alan HP446 Extrà

## Rechargeable battery pack

**BP 0513 - G811.02**
1300mAh Ni-MH
**Compatible with**: HP446 Extrà

**BP 0518 - G811.03**
1800mAh Ni-MH
**Compatible with**: HP446 Extrà

## Rechargeable battery pack

**PB-ATL/G7 - C784**
800mAh Ni-MH
**Compatible with**:
Midland G7 line, G9

## Rechargeable battery pack

**PB-777 - C783**
Li-Ion 3,7V da 650mAh
**Compatible with**:
Midland/Alan 777 line

®MIDLAND

# Accessories

## Rechargeable battery pack

**PB G6/G8 - C881**
800mAh Ni-MH
**Compatible with**:
Midland G8, Midland G6

## Universal car charger

**AL UNI - C519**
with multiple pin, fuse and led

**Compatible with**:
PMR446: Alan451R, Alan421, Alan456R
LPD: Alan507, Alan516, Alan503

## Multiple battery charger

**MW-Traveller - C746**
for battery type AA and AAA, 4 slot, equipped with interchangeable Europe, UK, USA and Australia jack and plug (batteries not included)

## Car charger

**AL777 - C803**
**Compatible with**:
Midland/Alan777 line, K1, Midland G5, Midland G12

**ALG7 - C814**
**Compatible with**:
Midland G9 line, G8, G7, G6, G5XT, Base Camp446, 445BT, Alan445 Sport

## Recharge adaptor for PB ATL/G7

**C827**
Adaptor for recharging of only the battery pack (without radio)

**Compatible with**: Midland G7

NEW

## Recharge adaptor for G12

**C828**
Adaptor for recharging of battery pack only (without radio)

**Compatible with**: Midland G12

NEW

## Wall charger

**MW905 - C887**
**Compatible with**:
Midland/Alan777, Midland G12

**MW-G5 - C741**
**Compatible with**:
Midland G5, K1

**MW904 - C689**
**Compatible with**:
Midland G9, G8, G7, G7XT, G6, G6XT, G5XT, Base Camp446, 445BT, Alan445 Sport, 441, 443
LPD: Alan860

**MW903 GS - C606**
**Compatible with**:
Alan451R, Alan421, Alan456R
LPD: Alan507, Alan516, Alan503

## Waterproof case

**CC ATL /G7 WP - C826**
**Compatible with**:
Midland G8, G7, G6, Alan 445 Sport, Midland 445BT

## Semi-rigid travel case with wall charger

**Midland TravelBOX – C866**
With ultra slim wall charger.
**Compatible with**:
Midland G8, G7, G6, Atlantic XT Ocean, Midland 445BT

**2**

Mobile/portable transceivers
Citizen Band

**MIDLAND**®

MULTI

NOISE
BLANKER
Noise Blanker

✚
Emergency

⤭
Dual Watch

Memory

Signal

12V
Power

6 pin

# Midland 248

The innovative peculiarity of **Midland 248** consists in its being controlled by a microprocessor. **Midland 248** is synthsized in frequency by a PLL circuit allowing the requested frequencies to be generated by a crystal making for greater reliability and flexibility in the control of the same.
**Midland 248** is equipped with the **"NOISE BLANKER SYSTEM"** (noise reducer device) that reduces considerably the audio noises (up to 95%), allowing a clear communication even when the signal is disturbed.

## Main features

› Multi standard radio
› Noise Blanker System
› Blue backlit multifunctional display
› Backlit controls
› 4 memory positions
› RF Gain: control of the sensibility in RX
› Mic Gain: control of the amplification of the microphone in TX
› Fast selection channels: Quick Up/Down
› Scan - Dual Watch - Squelch
› Emergency channel
› Compact microphone

"Precision Series" with Up/Down scroll buttons
› External S-Meter jack
› **Mike connector: 6 pin**

## Packaging and codes

1 radio, microphone, mounting bracket and fixing screws, power supply cable
**code C879**

# Midland 248XL

**Midland 248XL** is a mobile transceiver whose main feature is the possibility to select any of the European CB bands with an easy and quick operation. Midland 248XL is equipped with the **"ESP2"** and **"NOISE BLANKER"** (noise reducer devices) that reduce considerably the audio noises up to 95%, allowing a clear communication even when the signal is disturbed.
**Midland 248XL** is also equipped with an analogical S-Meter, showing the transmitted power and the signal received.
The unit is preset at the factory on the **"EC"band, CEPT 40CH FM 4W.**

## Main features

› Multi standard radio
› ESP2: noice reducer
› Noise Blanker System
› Blue backlit multifunctional display
› Backlit controls
› 5 memory positions
› RF Gain: control of the sensibility in RX
› Mic Gain: control of the amplification of the microphone in TX
› Fast selection channels: Quick Up/Down
› Scan - Dual Watch - Squelch
› Emergency channel
› Compact microphone "Precision Series" with Up/Down scroll buttons
› External S-Meter jack
› **Mike connector: 6 pin**

## Packaging and codes

1 radio, microphone, mounting bracket and fixing screws, power supply cable
**code C892**

MULTI

NOISE
BLANKER
Noise Blanker

ESP2
ESP 2

✚
Emergency

S-Meter

⤭
Dual Watch

Memory

12V
Power

6 pin

# Midland 278

Small and compact **Midland 278** is the ideal solution for those wanting the "last generation" CB, reliable and technologically advanced and always user friendly.

**Midland 278** is equipped with the **"NOISE BLANKER SYSTEM"** (noise reducer device) that drastically reduces the audio noises (up to 95%), allowing a clear communication even when the signal is disturbed.

## Main features

› Multi standard radio
› Noise Banker System: noise reducer device
› Blue backlit multifunctional display
› Backlit controls
› Fast selection channels: Quick Up/Down
› Compact microphone "Precision Series" with Up/Down scroll buttons
› External S-Meter jack
› Scan
› Emergency channel
› **Mike connector: 6 pin**

### NEW

## Packaging and codes

1 radio, microphone, mounting bracket and fixing screws, power supply cable
**code C880**

MULTI

**NOISE BLANKER**
Noise Blanker

**+**
Emergency

Signal

**12V**
Power

6 pin

---

# Midland 200

**Midland 200** is the brand new **Mini-multi** CB transceiver, small in dimensions, but with the most advanced essential features.

**Midland 200** is equipped with an emission switch, that allows you to select the power and the type of modulation and with a **PL/EU selector** that allows you to switch directly to PL (Polish) or EU (Europe) bands.

**PL (Poland):** 40 CH AM/FM 4W; 26.960-27.400MHz
**EU (Europe):** 40 CH FM 4W/40 CH AM 1W; 26.965-27.405MHz

Its buttons and knobs are clearly visible and user friendly; while the wide LCD display, allows excellent visibility in any type of light condition.

### NEW

## Main features

› Multi standard radio
› EU/PL bands default set, selectable trough the PL/EU selector
› 40 channels
› AM/FM switch to select the emission mode (4W FM – 4W AM – 1W AM)
› Squelch
› External jack for an external optional loudspeaker
› It works with negative current to mass 12-13.8V
› **Mike connector: 4 pin\***
  (\*not compatible with Alan 48 - Alan 68S)

## Packaging and codes

1 radio, microphone, mounting bracket and fixing screws, power supply cable
**code C877**

MULTI

**EU PL**
Default Band

**NOISE BLANKER**
Noise Blanker

**12V**
Power

4 pin *

**MIDLAND** ®

**MEM**
Memory

**ESP2**
Noise Killer

**✚**
Emergency

**DIN**
Size

**CH FREQ**
Display

**12V**
Power

⊛
6 pin

# Midland 220

The **Midland 220** is a brand Multi standard mobile CB transceiver, in **DIN** size, with front speaker and **ESP2** noise reduction system.
Thanks to the DIN size, installation is simple and easy, with everything you need included in the box, including the DIN bracket mounting kit.
Buttons and controls are clearly visible and user friendly and the **large LCD multicolour display** with choice of 7 colours, ensures clarity and ease of operation in any type of light condition.

## Main features

› Multi standard radio
› Power: 1W/4W depending on the country (see page 32)
› DIN size
› Front speaker
› ESP2 noise reduction system
› Multi-colour LCD display "7 colours"
› 2 memory positions
› Emergency channel
› Channel/frequency display view
› Mic Gain: control of the amplification of the microphone in TX
› RF Gain: control of the sensibility in RX
› Squelch
› Mic Up/Down
› **Mike connector: 6 pin**

## Packaging and codes

1 radio, microphone, DIN mounting bracket and fixing screws, power supply cable
**code C860**

## Examples of multicolour LCD

**MULTI**

**CH FREQ**
Display

**▄▄▄▄**
Signal

**12V**
Power

⊛
6 pin

# Alan 121

**ALAN 121** is a **Multi standard CB transceiver with compact and reduced size**.
Its essential but clearly visible buttons and controls make it very easy to use as well as offering a complete Multi Band frequency range.
The LCD display can be set on 7 different colours to guarantee best reading results under any condition.

## Main features

› Multi standard radio
› Power: 1W/4W depending on the country
› Channels: it depends on the country (see page 32)
› Channel/frequency display view
› Squelch
› Multi-colour LCD display "7 colours"
› External speaker jack
› Ext. S-Meter jack
› Mic Up/Down
› **Mike connector: 6 pin**

## Packaging and codes

1 radio, microphone, mounting bracket and fixing screws, power supply cable
**code C831**
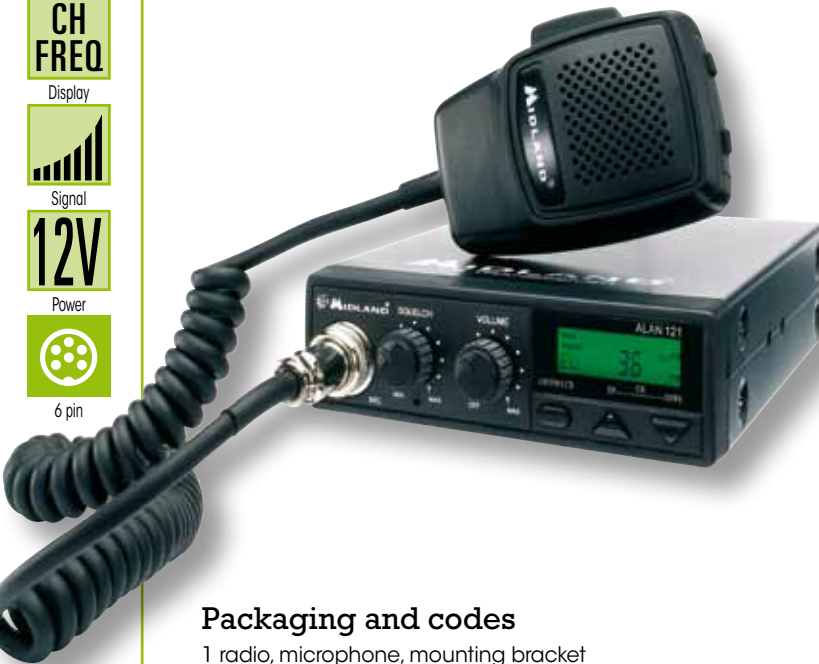
# Alan 48 - 40 Channels

**Alan 48** is a complete device for truly demanding radio amateurs. Since 1986, it is still the number one 40-channel CB!

› Blue lighted front
› Squelch
› **Mike connector: 4 pin**

## Main features

› Band: AM-FM
› Noise Blanker System
› MIC GAIN: Microphone gain control for constantly perfect modulation
› RF GAIN: Antenna pre-amplifier gain adjustment control
› FIL: Reception signal tune adjustment control
› ANL: Automatic noise limiter
› PA: Flip this switch to transform the device in a low frequency amplifier (with supplementary speaker)

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**code C217.02**

**NOISE BLANKER**
Noise Blanker

S-Meter

**12V**
Power

4 pin

Dynamic universal microphone

**MDL4190**
**code C074**
Impedance 500 Ohm,
for Alan 48, 68S and Midland 200
4 pin connector

# Alan 68 S - 34 channels

Since 1983, it is still the number one 34-channel CB!

## Main features

› Band: AM-FM
› MIC GAIN: Microphone gain control for constantly perfect modulation
› RF GAIN: Antenna pre-amplifier gain adjustment control
› FIL: Reception signal tune adjustment control
› ANL: Automatic noise limiter
› PA: Flip this switch to transform the device in a low frequency amplifier (with supplementary speaker).
› Squelch
› Lighted front.
› **Mike connector: 4 pin**

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**code C025.02**

S-Meter

**12V**
Power

4 pin

**MIDLAND**®

SSB
Band

S-Meter

12V
Power

4 pin*

# Alan 8001S

**Alan 8001S** is a mobile transceiver, simple and easy to use, ideal for long distance "DX" connections.

## Main features

› Multi standard radio: AM-FM-SSB
› External Squelch
› MIC GAIN: Microphone gain control for constantly perfect modulation
› RF GAIN: Antenna pre-amplifier gain adjustment control
› SWR CAL: immediate antenna calibration control
› RF power selection: RF output power adjustment in AM-FM
› Clarifier: possibility of varying receiver operating frequency over and under the assigned frequency. Function essential for SSB signals, it can improve AM/FM signals

› Frequency meter: accurate reception and transmission frequency display
› Choice between measuring device output power or modulation
› NB/ANL: reception signal optimization eliminating impulse disturbances
› **Mike connector: 4 pin*** (not compatible with Alan 48 - Alan 68S)

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**code C533.06**



MULTI

MEM
Memory

Emergency

Signal

12V
Power

6 pin

# Alan 48 Plus Multi B

**Alan 48 Plus Multi B** is an easy to use mobile transceiver that allows you to you choose any European CB band, and therefore can be used in all European countries.

## Main features

› Multi standard radio
› Power: 1W/4W depending on the country
› Channels: it depends on the country (see page 32)
› Blue backlit multi-function display "Precision Series" microphone with UP/DOWN/LOCK keys
› Squelch
› MIC Gain: control of the sensibility in RX
› RF Gain: control of the sensibility in RX

› 4 memory positions
› Emergency channel
› SCAN
› Dual watch
› External s-meter jack
› External speaker jack
› **Mike connector: 6 pin**

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**code C422.15**

# Alan 48 Excel Multi

**Alan 48 Excel Multi** is a 40-channel CB mobile radio. The main characteristic is the "ESP2" device (dynamic disturbance suppressor) that significantly reduces audio disturbance by up to 95%, for easy listening even when the signal is noisy. The backlit keys and wide multi-functional display allows you to view the channel number or corresponding frequency. It is equipped with an analog S-meter for convenient display of the transmitted power and received signal and, additionally, the permits easy selection of any European CB band using a simple and immediate procedure. It also includes a completely automatic voltage transformer for use on cars with either 12 or 24 Volt batteries without the need of any other accessory.

**Alan 48 Excel Multi** is supplied according to"EC" band CEPT 40CH FM 4W.

## Main features

›   Multi standard radio
›   Power: 1W/4W depending on the country
›   Channels: it depends on the country (see page 32)
›   ESP2: noice reducers
›   Compact microphone with UP/DOWN keys
›   RF Gain, MIC Gain, Scan, EMG, Dual watch
›   5 memory positions
›   PA jack
›   External speaker jack

›   External speaker/s-meter jack
›   Channel lock
›   Power 12V e 24V
›   **Mike connector: 6 pin**

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**code C580.13**

| | |
|---|---|
| **MULTI** | |
| **MEM** | Memory |
| **ESP2** | Noise Killer |
| | S-Meter |
| **12V** | Power |
| **24V** | Power |
| | 6 pin |

# Alan 78 Plus Multi B

**Alan 78 Plus Multi B** stands out for its compact size and is extremely user friendly allowing you to choose any European CB band, and therefore can be used in all European countries.

## Main features

›   Multi standard radio
›   Power: 1W/4W depending on the country
›   Channels: it depends on the country  (see page 32)
›   Blue backlit multi-function display

›   "Precision series" microphone with UP/DOWN/LOCK keys
›   Squelch
›   External speaker jack
›   External s-meter jack
›   SCAN
›   **Mike connector: 6 pin**

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**code C423.15**

| | |
|---|---|
| **MULTI** | |
| | Signal |
| **12V** | Power |
| | 6 pin |

MIDLAND®

# Alan 199-A

**Alan 199-A** is a small mobile transceiver that operates in AM mode. Fast and easy to use, **Alan 199-A** allows you to you choose the output power and therefore can be used in all European countries that permit AM regulation.

## Main features

› Band: AM
› Channel display
› Up/Down keys
› Squelch
› Emergency channel
› External speaker jack
› **Mike connector: 5 pin**

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**code C702**

# Alan 100 Plus

**Alan 100 Plus** is a small mobile transceiver with technological content on par with its big brothers.
Practical independent volume and squelch control help you achieve optimal reception while the supplied condensor microphone guarantees better audio.

## Main features

› Band: AM-FM
› 9-19 emergency channels
› Channel display
› Up/Down keys
› Squelch
› Transmission and reception led
› External speaker jack
› **Mike connector: 4 pin** (Alan 100 Plus B)
› **Mike connector: 5 pin** (Alan 100 Plus, Alan 100 Plus Euro)

## Packaging and codes

1 radio, microphone, mounting bracket, fixing screws.
**Alan 100 Plus code C442**
**Alan 100 Plus B code C442.09**
**Alan 100 Plus Euro code C442.07**

**Alan 100 Plus B**

# Alan 42 Multi

**Alan 42 Multi** is the only portable CB that allows the user to choose any European CB band using a simple and fast procedure (see frequency band table).
The external talk/listen microphone jack located on the upper part of the transceiver facilitates use of accessory mikes (vox, etc.).

## Main features

› Multi standard radio
› Power: 1W/4W depending on the country
› Channels: it depends on the country  (see page 32)
› Emergency channel (EMG)
› Keypad lock (LOCK)
› Battery charge
› High-low output power level (H-L)
› Backlit display button
› AM-FM selection
› SCAN, Dual Watch
› antenna jack: BNC
› Operates with: 8 batteries AA or 12V
› **Audio accessories jack: 2 pin**

## Packaging and codes

1 radio, wall charger for 8 penlight battery pack, battery case for 6 penlight AA type alkaline batteries, battery case for 8 penlight AA type rechargeable batteries with charge jack, car adapter with SO 239 external antenna jack, scratch proof case, antenna, belt clip, wrist band.
**Alan 42 Multi C480.13**

## Optional accessories

Rechargeable battery pack

**PB E42 - C602**
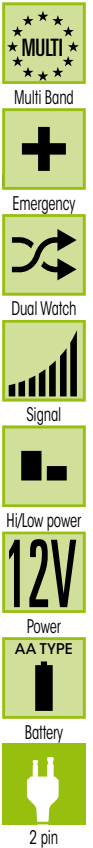Battery case for 8 penlight AA type (batteries not included)

Spare antennas

**Ant 42 - C611**
Antenna

**CB Flex B- C394**
Flex antenna 53 cm

> **Alan 42 is compatible with all the 2 pin accessories available in the PMR446/Dual-Band section* (pag. 17-20)**

* except MA46

Multi Band

Emergency

Dual Watch

Signal

Hi/Low power

12V
Power

AA TYPE

Battery

2 pin

**MIDLAND** ®

# Technical specifications

| Model | Midland 248 | Midland 248 XL | Midland 278 |
|---|---|---|---|
| CB type | Multistandard mobile | Multistandard mobile | Multistandard mobile |
| General | | | |
| Channels-Band | see table on page 32 | see table on page 32 | see table on page 32 |
| Frequency range | 26.565-27.99125 MHz | 26.565-27.99125 MHz | 26.565-27.99125 MHz |
| Power voltage | 12,6 Vcc ± 10% | 12,6 Vcc ± 10% | 12,6 Vcc ± 10% |
| Dimensions (WxHxD)/Weight | 180x50x150 mm/1 Kg | 150x45x175 mm/1 Kg | 180x35x140 mm/0,850 Kg |
| Mic jack | 6 pin | 6 pin | 6 pin |
| Receiver | | | |
| Sensitivity (20dB SINAD) | 0,5 µV (AM/FM) | 0,5 µV (AM/FM) | 0,5 µV (AM/FM) |
| Audio output power | > 3 W@ 8 Ohm | > 3 W@ 8 Ohm | > 3 W@ 8 Ohm |
| Audio distorsion | < 8% @ 1KHz | < 8% @ 1KHz | < 8% @ 1KHz |
| Transmitter | | | |
| Output power | 4 W max | 4 W max | 4 W max |
| Modulation | FM: 1,8 KHz ± 0,2 KHz AM: da 85% a 95% | FM: 1,8 KHz ± 0,2 KHz AM: da 85% a 95% | FM: 1,8 KHz ± 0,2 KHz AM: da 85% a 95% |
| Max absorbed current | 2500 mA | 2500 mA | 2500 mA |

| Model | Midland 200 | Midland 220 | Alan 121 |
|---|---|---|---|
| CB type | Multistandard mobile | Multistandard mobile | Multistandard mobile |
| General | | | |
| Channels-Band | see table on page 32 | see table on page 32 | see table on page 32 |
| Frequency range | 26.960 - 27.405 MHz | 25.625 - 30.105 MHz | 25.625 - 30.105 MHz |
| Power voltage | 13,8 Vcc max | 12,6 Vcc ± 10% | 12,6 Vcc ± 10% |
| Dimensions (WxHxD)/Weight | 125x37x166 mm/ 0,795 Kg | 170X52X170 mm/1,020 Kg | 165 x 38 x 123 mm/0,820 Kg |
| Mic jack | 4 pin (not compatible with Alan 48 and 68S) | 6 pin | 6 pin |
| Receiver | | | |
| Sensitivity (20dB SINAD) | better than 1.0 µV | 1 µV | < 1 µV |
| Audio output power | > 3 W max | > 3W @ 8 Ohm | > 2W @ 8 Ohm |
| Audio distorsion | < 5% @ 1KHz | < 3% @ 1KHz | < 3% @ 1KHz |
| Transmitter | | | |
| Output power | 4 W max | 4W | 4W |
| Modulation | FM: 1,8KHz ± 0,2KHz AM: da 85% a 95% | FM: 1,8KHz ± 0,2KHz AM: da 85% a 95% | FM: 1,8KHz ± 0,2KHz AM: da 85% a 95% |
| Max absorbed current | FM:1300mA; AM: 1800mA | 1100mA | 1100mA |

| Model | Alan 48 | Alan 68 S | Alan 8001 S |
|---|---|---|---|
| CB type | AM-FM mobile | AM-FM mobile | AM-FM-SSB mobile |
| General | | | |
| Channels-Band | 40 AM - 40 FM | 34 AM - 34 FM | 40 AM - 40 FM - 40 SSB |
| Frequency range | 26.965 - 27.405 MHz | 26.865 - 27.265 MHz | 26.965 - 27.405 MHz |
| Power voltage | 12,6 Vcc ± 10% | 12,6 Vcc ± 10% | 13,8 Vcc ± 10% |
| Dimensions (WxHxD)/Weight | 165 x 58 x 205 mm/1,5 Kg | 165 x 55 x 205 mm/1,5 Kg | 200 x 60 x 235 mm/2,250 Kg |
| Mic jack | 4 pin | 4 pin | 4 pin (not compatible with Alan 48 and 68S) |
| Receiver | | | |
| Sensitivity (20dB SINAD) | 0,5÷1 µV | 0,5÷1 µV | 0.25 µV for 10 dB S-N (SSB) 0.6µV for20 dB S+N/N (AM) 0.6µV for 20 dB S+N/N (FM) |
| Audio output power | > 3W @ 8 Ohm | > 3W @ 8 Ohm | > 4.0 W @ 8 Ω |
| Audio distorsion | < 5% @ 1KHz | < 5% @ 1 Khz | < 5% @ 1KHz |
| Transmitter | | | |
| Output power | 4W | 4 W AM/FM | Plus S: 4W AM/FM/SSB |
| Modulation | FM 2KHz AM 100% | AM 100% = FM 2KHz | AM: 90% FM: 1.8 KHz +/- 0.2 KHz |
| Max absorbed current | 1100mA | 1100mA | 1100 mA |

| Model | Alan 48 Plus Multi B | Alan 48 Excel Multi | Alan 78 Plus Multi B |
|---|---|---|---|
| CB type | Multistandard mobile | Multistandard mobile | Multistandard mobile |
| General | | | |
| Channels-Band | see table on page 32 | see table on page 32 | see table on page 32 |
| Frequency range | 26.565 - 27.99125 MHz | 26.565 - 27.99125 MHz | 26.565 - 27.99125 MHz |
| Power voltage | 12,6 Vcc ± 10% | 13,2 Vcc ± 10% - 24 Vcc ± 15% | 12,6 Vcc ± 10% |
| Dimensions (WxHxD)/Weight | 180 x 50 x 150 mm/1 Kg | 155 x 50 x 175 mm/1 Kg | 180 x 35 x 140 mm/0,850 Kg |
| Mic jack | 6 pin | 6 pin | 6 pin |
| Receiver | | | |
| Sensitivity (20dB SINAD) | 0,5÷1 µV | 0.5 µV | 0.5 µV |
| Audio output power | > 3W @ 8 Ohm | > 3W @ 8 Ohm | > 2W @ 8 Ohm |
| Audio distorsion | < 8% @ 1KHz | < 8% @ 1 Khz | < 8% @ 1 Khz |
| Transmitter | | | |
| Output power | 4W | 4W @ 13,2 Vcc | 4W |
| Modulation | AM: da 85% a 95% FM: 1.8 KHz +/- 0.2 KHz | AM: 85% a 95% FM: 1.8 KHz +/- 0.2 KHz | AM: 85% a 95% FM: 1.8 KHz +/- 0.2 KHz |
| Max absorbed current | 1100 mA | 13,2 V: 1300 mA 24 V: 1600 mA | 1100 mA |

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| Model | Alan 199A | Alan 100Plus/Plus Euro/Plus B | Alan 42 Multi |
|---|---|---|---|
| CB type | AM mobile | AM-FM mobile | Multistandard handheld |
| General | | | |
| Channels-Band | 40 AM | 40 AM -40 FM | see table below |
| Frequency range | 26.965 - 27.405 MHz | 26.965 - 27.405 MHz | 26.565 MHz - 27.99125 MHz |
| Power voltage | 13,2 V max | 13,8 Vcc ± 10% | 12 Vcc max |
| Dimensions (WxHxD)/Weight | 124 x 38 x 190 mm/1,2 Kg | 124 x 38 x 190 mm/1,2 Kg | 70 x 140 x 30 mm/220 g (- batt) |
| Mic jack | 5 pin | 5 pin/5 pin/4 pin | 2 pin |
| Receiver | | | |
| Sensitivity (20dB SINAD) | >1µV | 1,0µV | 1,0µV (AM), 0,55µV (FM) |
| Audio output power | >2W max | >2 W max | 0.5W@8 Ω |
| Audio distorsion | < 8% @ 1KHz | < 8% @ 1KHz | 3%@1KHz |
| Transmitter | | | |
| Output power | 1W/4W AM | 100 Plus: 4W AM-FM max<br>100 Plus Euro: 1W AM - 4W FM | 4W AM/FM |
| Modulation | AM: 90% | AM: 90%, FM: 2KHz | AM 90% ±5% / FM 2KHz |
| Max absorbed current | 2000 mA | FM: 1300 mA/AM: 2000 mA | 900 mA |

## Multi device frequency band table

| Sigla | Country |
|---|---|
| I | Italy 40 CH AM/FM 4 Watt (26.965-27.405) |
| I2 | Italy 34 CH AM/FM 4 Watt (26.875-27.265) |
| D3 | Germany 80 CH FM 4 Watt / 40 CH AM 1 Watt |
| EU | Europe 40 CH FM 4 Watt / 40 CH AM 1 Watt |
| EC | CEPT 40 CH FM 4 Watt |
| E | Spain 40 CH AM/FM 4 Watt |
| F | France 40 CH FM 4 Watt / 40 CH AM 1 Watt |
| PL | Poland 40 CH AM/FM 4 Watt |
| UK | England 40 CH FM 4 Watt + EC (40 CH FM 4Watt CEPT) |
| UKE | England 40 CH FM 4 Watt (Alan 121 and Midland 220 only) |
| UKC | 40 CH FM 4 Watt CEPT (Alan 121 and Midland 220 only) |
| EXPORT VERSION | |
| RU | Russia 400 CH AM/FM 4 Watt |
| PX | Poland 400 CH AM/FM 4 Watt Polish frequencies |
| SW | Sweden 24 CH FM 4 Watt 31 MHz |

# Accessories

**Mike SE (Special edition)
code C870**
4 pin connector for
Alan 48, Alan 68S

**code C870.01**
6 pin connector for Plus
Multi and Excel family,
Alan 121, Midland 220, 248,
248 XL, 278

### Microphone for Alan 48, Alan 68S

**Midland - code T059**
Original Alan 48, Alan 68S
and Midland 200
4 pin connector

### Original microphone for Alan 48, Alan 68S

**MDL4190 - code C074**
Impedance 500 Ohm,
for Alan 48, Alan 68S
and Midland 200
4 pin connector

### Microphone holder

**PM3 - code T431**
with screw and dual-adhesive tape
attachment

**PMF - code T570**
with screw and dual-adhesive tape
attachment, fluorescent

### "Precision series" microphone

**Mike Multi - code C714**
Up/Down buttons (channel
selection), Lock button (Up/
Down microphone key lock)
for Alan 48/78 Plus Multi
6 pin connector
for Multi and Excel family,
Alan 121, Midland 220, 248,
248 XL, 278

### Electret Microphone

**MR120 - code C404.01**
Up/Down buttons
6 pin connector
for Multi and Excel family,
Alan 121, Midland 220, 248,
248 XL, 278

### Original microphone for Alan 100 Plus/Alan 199-A

**code R17332**
5 pin connector
for Alan 100 Plus,
Alan 100 Plus Euro
and Alan 199-A

### Car charger

**AL UNI - C519**
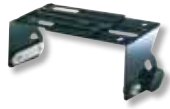Universal car charger with multiple
plug, fuse and led.
**Compatible with:**
Alan42

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## Brackets

**SU 29 - T452**
For CB radios. Practical runner
support for radio removal
Compatible with all mobile CB

**SA 48 - T769**
Complete with 1 brachet, 2 slides,
2 screws.
Compatible with Alan 48, Alan 68S

## Dual filter

**27/586 - T760**
Suited to eliminate harmonics and
disturbance on TV receivers

## Brackets

**SPM-48 DIN - C791**
DIN Bracket for Alan 48 Plus Multi B/
Excel Multi
**SPM-78 DIN - C792**
DIN Bracket for Alan 78 Plus Multi B
**SPM-100 DIN - C807**
DIN Bracket for Alan 100 Plus, 100
Plus Euro, Alan 100 Plus B, 199-A

## Supply cable power cord

**T060**
3-pole, with fuse box
Length: 160 cm

## Broad band SWR meter wattmeter

**KW 520 code C530**

To check transmitter power and antenna adaption, with two
separate measurement lines, one 1.8 at 200 MHz, and the other
140 at 525MHz. Lets you simultaneously connect 2 systems: one
in HF/VHF and the other in VHF/UHF and select which to measure
using the switch. The selected measurement line is displayed with
the led. Measurement options include peak or average value › 
Scale end calibration › Full scale power doubler button from 200
to 400 W.

| Main features | |
|---|---|
| RF power | 5W - 20W - 200W - 400W |
| R.O.S. | 1.1 / ∞ |
| Impedance | 52 Ohm |
| Frequency range | 1.8 200 MHz - 140 - 525 MHz |
| Precision | ROS - PWR 5% |
| Dimensions | 155x100x60mm |
| Weight | 730 g |
| Connector | SO239 |

## Wattmeter/SWR meter

**Midland 23-505 code T676.01**

23-110 is a 3-function measurement instrument that controls
various operating parameters on any antenna and trasceiver like
ROS, RF power (3 intervals: 0-1, 0-10, 0-100 watt), AM modulation (0-
100%), FM deviation (0-3 KHz), and includes a convenient Gamma
Match to tune antennas in 25 - 40 MHz frequency range.

| Main features | |
|---|---|
| RF power | 10W - 100W |
| R.O.S. | 1.1 / ∞ |
| Impedance | 52 Ohm |
| Frequency range | 1.5 - 150 MHz |
| Dimensions | 135x60x70mm |
| Weight | 280 g |
| Connector | SO239 |

## Speakers

**Midland 70-2355T code C733**

Weather resistant

**AU 20 code T775**

**AU 25 code T681**

**AU 30 code T682**

**EH 800 code P348**

Weather resistant

| Main features | Midland 70-2355T | AU 20 | AU 25 | AU 30 | EH 800 |
|---|---|---|---|---|---|
| Impedance | 3.2 Ohm | 8 Ohm | 8 Ohm | 8 Ohm | 8 Ohm |
| Nominal power | 2 W | 3 W | 7 W | - | - |
| Max power | 20W | 5 W | 5 W | 12 W | 10 W |
| Dimensions (mm) | 123x123x62 | 65x55x65 | 100x60x60 | 110x140x60 | 90x85x110 |

## Power supplies

**K 75 code T669**

**K 105 code T670**

CTE power supplies meet CE 89 336 regulations (EMC and LVD Low Voltage Directivity): European safety regulations. With semi-professional features, CTE stabilizing power adapters are suited for any use.

| Main features | K 75 | K 105 |
|---|---|---|
| Input voltage | 230Vca - 50Hz | 230 Vca - 50 Hz |
| Output voltage | 13,8 Vcc | 13,8 Vcc |
| Nominal output current | 4 A | 5,5 A |
| Intermittent current | 6 A | 10 A |
| Peak current | 8 A | 12 A |
| Fuse | 2 A | 3 A |
| Dimensions (HxLxD) | 109x140x249 | 150x200x292 |
| Weight | 4,500 Kg | 6,800 Kg |

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**RDT 11/S code C786**
Switching technology AUTOMOTIVE approval Nr: 10R-026170

**RDT 10/A code C589**
AUTOMOTIVE approval Nr: e3 02 1049

**RDT 16/S code C787**
Switching technology AUTOMOTIVE approval Nr: 10R-026171
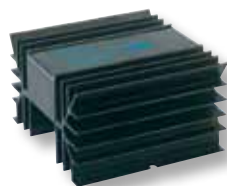
**RDT 14/A code C531**
AUTOMOTIVE approval Nr: e3 02 1050

**RDT 20/S code C788**
Switching technology AUTOMOTIVE approval Nr: 10R-026172

**RDT 30/R code T674**
AUTOMOTIVE approval Nr: e3 02 1051

| Main features | RDT 11/S | RDT 16/S | RDT 20/S | RDT 10/A | RDT 14/A | RDT 30/R |
|---|---|---|---|---|---|---|
| Switching technology | Yes | Yes | Yes | No | No | No |
| Input voltage | 20-30 Vcc | 20-30 Vcc | 20-30 Vcc | 24-28 Vcc | 24-28 Vcc | 24-28 Vcc |
| Output voltage | 13,5 +/- 0,5Vcc | 13,5 +/- 0,5Vcc | 13,5 +/- 0,5Vcc | 13,8 Vcc | 13,8 Vcc | 13,8 Vcc |
| Dimensions (HxLxD) | 35x75x160 | 35x105x170 | 40x115x200 | 64x120x112 | 64x120x112 | 40x102x300 |
| Weight | 387 g | 554 g | 782 g | 670 g | 580 g | 1200 g |
| Output specifications | | | | | | |
| Continuous | 8 A | 12 A | 18 A | 6 A | 6 A | 10 A |
| 6'/3' | - | - | - | 10 A/- | 8 A/- | 15 A/20 A |
| Max peak | 10 A/15 min | 16 A/ 15 min | 20 A/15 min | 10 A | 10 A | 30 A |

**HF 747 code C882**

| Main features | HF 747 | Output power | 150W max |
|---|---|---|---|
| Frequency | HF | SSB output power | 300W pep max |
| Power | 12-14Vcc | Mode | AM-FM-SSB-CW |
| RX consumption | 14-20A | Fuse | 2x12A |
| Input power | 1-5W | Dimensions/Weight | 109x210x35mm/ 605g |
| SSB input power | 2-10W | | |

HF/ VHF linear power amplifier

HF 757 code C883

HF 767 code C884

VHF 90 code C885
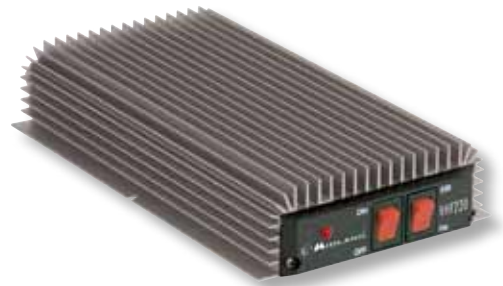
VHF 220 code C886

| Main features | HF757 | HF767 | VHF90 | VHF220 |
|---|---|---|---|---|
| Frequency | HF | HF | 140-152 MHz | 150-170 MHz |
| Power | 12-14 Vcc | 12-14 Vcc | 12-14 Vcc | 12-14 Vcc |
| RX consumption | 12-24 A | 10-34 A | 6 A | 14 A |
| Input power | 1-10 W | 1-15 W | 0,5-7 W | 1-25 W |
| SSB input power | 2-20 W | 2-30 W | 1-14 W | 2-50 W |
| Output power | 200 W Max | 300 W Max | 45 W Max | 110 W Max |
| SSB Output power | 400 W pep Max | 600 W pep Max | 90 W pep Max | 220 W pep Max |
| Mode | AM-FM-SSB-CW | AM-FM-SSB-CW | FM-SSB-CW | FM-SSB-CW |
| Fuse | 2x12 A | 3x12 A | 8 A | 2x8 A |
| Dimensions | 109x225x62 mm | 170x210x62 mm | 109x125x35 mm | 109x225x35 mm |
| Weight | 980 gr. | 1600 gr | 325 gr | 625 gr |

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# 3

Mobile/portable
marine transceivers

# Pacific

## Rugged, large LCD display, for fast and functional communications.

The **Midland Pacific** is a VHF marine handheld transceiver, with the most reliable characteristics, such as wide LCD display, 20 programmable channels, 5W output power and detachable antenna. The SMA standard connector allows to use also other types of antennas.

### Main features
› **Waterproof: IPX5**
› Transmission power: 5W
› High/low power selection (5W/1W)
› 57 International channels
› 20 channels programmable by the user (via software)
› Instant access to emergency channel 16
› Wide LCD display with backlight
› Detachable antenna (SMA connector)
› Battery status indicator and power save
› SCAN, VOX, Keypad lock
› Dual Watch
› Automatic Squelch
› Roger Beep (end conversation tone)
› Sockets for: SPK/MIC/CHG
› Operates with: battery pack (or 4 AA batteries opt)
› **Audio accessories jack: 2 pin**
› **Wall charger compatible: MW905**

### Packaging and codes
Box with 1 Radio, single desktop charger, wall adaptor, 2-way car lighter charger 12V , battery pack(800mAh), belt clip and desktop/wall support.
**cod G1094 Black**

### PRG Pacific
Programming software for Pacific complete with USB cable for PC
**code G1124**

Waterproof

**57** CHANNELS

**5W** Power

Hi/Low power

Vox

Power save

Battery level

Key Lock

Scan

Dual Watch

Programmable

BATT.PACK
Battery type

AA TYPE
Battery type

2 pin

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Splashproof

**56** CHANNELS

**5 W**
Power

Hi/Low power

Vox

Power save

Battery level

Key Lock

Scan

Dual Watch

BATT.PACK
Battery type

AA TYPE
Battery type

2 pin

# Atlantic XT

## Reliable and easy to handle,
## to navigate in complete safety

**Atlantic XT** is durable, electronically advanced and provides clear and reliable communication on all ITU assigned international channels on VHF nautical band. **Atlantic XT** is the latest innovation in the portable marine transceiver field with 56 international band channels and immediate access to emergency channel 16. The package also includes a waterproof case that provides safe and "waterproof" use.

### Main features

› Transmission power: 5W
› High/low power selection (5W/1W)
› 56 International channels
› Immediate access to emergency channel 16
› Backlit LCD display
› CALL key with 3 selectable tones
› SCAN / Dual watch function
› Keypad lock to prevent accidental calls
› Automatic squelch adjustment
› Roger Beep on/off
› VOX for hands-free communications
› Low battery indicator
› Automatic battery saver
› Operates with**: 4 AA rechargeable/alkaline batteries
› **Audio accessory jack: 2 Pin**
› **Wall charger compatible: MW904**

### Packaging and codes

Box with 1 Radio, desktop/wall support, belt clip, waterproof case with neck collar
**code G1037.03 Black**
**code G1037.04 White**

## Atlantic XT Kit

Also available in kit version with NiMH battery pack, charger and 12Vcc power supply
**G1037.05 Kit Atlantic XT**

# Neptune 100

## Compact, essential and totally waterproof IPX7

The **Neptune 100** packs a wide range of essential functions for communication at sea. Thanks to the large backlit LCD display all data and frequency information is clearly and immediately visibile.
**Neptune 100 is totally waterproof with IPX7 protection certified.**
**It can be dipped into water for 30 min. up to 1 meter depth.**

### Main features

› **Waterproof: IPX7**
› 57 International channels
› DSC system – Class D – with potential to save received messages
› ATIS system
› Transmission power: 25W
› Main controls replicated in the microphone for even more immediate use
› Channel selection and channel 16 redial
› Wide backlit LCD display with adjustable contrast

› Squelch adjustment
› Connections to external speaker
› Connection to an external GPS (optional)
› Dual Watch function - to monitor channel 16 while listening to the tuned channel
› Triple Watch function – to monitor channels 9 and 16 as well as the tuned channel
› Scan function with 2 scan modes: all channel scan or saved channel scan with potential to create a channel group

› Programmable features by software:
  - 16 programmable MMSI addressed (craft identification code)
  - 20 programmable channels for authorised professional use

### Packaging and codes

Box with 1 Radio, microphone and support, external GPS cable, power cable, assembly bracket and fastening screws
**code G1125 Black**
**code G1125.01 White**

### PRG Neptune 100

Programming software for Neptune 100, complete with serial cable for PC
**code G1130**

Waterproof

DCS

ATIS

GPS

57 CHANNELS

25W Power

Hi/Low power

Agenda

Scan

Dual Watch

Tri Watch

Programmable

MIDLAND®

Waterproof

DCS

ATIS

GPS

56 CHANNELS

25W Power

Hi/Low power

Agenda

Scan

Dual Watch

Tri Watch

Programmable

# New Neptune

## Technologically advanced, professional and tough

The **New Neptune** is the ideal solution for those requiring a highly professional product, with metal cabinet, waterproof IP54 and full alphanumeric keypad on front panel. **New Neptune** is controlled by a microprocessor, which guarantees advanced features and performances. It controls the nautical band tuning as well as advanced functions such as Dual Watch, Triple Watch and the channel memories.

## Main features

› **Waterproof: IP54**
› 56 International channels
› DSC system – Class D – with potential to save received messages
› ATIS system
› Transmission power: 25W (25W/1W)
› Numeric keypad on the front panel
› Main controls replicated in the microphone for even more immediate use
› Wide backlit LCD display with adjustable contrast
› Squelch adjustment
› Channel 16 redial button
› Connections to external speaker
› Connection for external GPS (optional)
› Dual Watch function - to monitor channel 16 while listening to the tuned channel
› Triple Watch function – to monitor channels 9 and 16 as well as the tuned channel
› Scan function with 2 scan modes: all channel scan or saved
channel scan with potential to create a channel group
› Programmable features by software:
  - 16 programmable MMSI addressed (craft identification code)
  - 20 programmable channels for authorised professional use

## Packaging and codes

Box with 1 Radio, microphone and support, external GPS cable, power cable, assembly bracket and fastening screws
**code G979.04 White**

## Optional New Neptune accessories

**Dash mount kit New Neptune
code G1020.01 White**

**Midland 70-2355T code C733**
External speaker weather-resistant

**PRG Neptune code G1005**
New Neptune software programmer complete with PC serial cable

## External GPS

**GR-213 code C833
GPS Receiver**
› SIRF Star III internal chipset
› 20 channel satellite receiver
› Waterproof IPX7
› Magnetic and sucker mount
› WAAS/EGNOS
› **Compatible with all the Neptune line**

# Technical specifications

| General | Pacific | Atlantic XT |
|---|---|---|
| Channels | 57 international | 56 international |
| Frequency coverage TX | from 156.025 to 157.425 MHz | from 156.025 to 157.425 MHz |
| Frequency coverage RX | from 156.300 to 162.000 MHz | from 156.300 to 162.000 MHz |
| Power | Battery pack/4 batteries AA opt | 4 rechargeable or alkaline batteries AA |
| Working temperature | from −15°C to +55°C | da −15°C a +55°C |
| Detachable antenna/lenght | Yes - SMA Connector/250 mm | No/235 mm |
| Dimensions (WxHxD) | 62x122x35 mm | 58x122x34 mm |
| Weight (device only) | 137 g | 119 g |
| Accessory jack | 2 pin | 2 pin |
| Programmable | Via software (PRG-PACIFIC) | - |
| Waterproof grade | IP54 | Splashproof |
| Transmitter | | |
| Output power | 5 Watt (1W/5W) | 5 Watt (1W/5W) |
| Receiver | | |
| Sensitivity  (20dB Sinad) | 0,35 µV | 0.35 µV |
| Audio output power | 500mW @ 10% THD | 300mW @ 10% THD |
| Audio distorsion | < 10% | < 10% |

| General | Neptune 100 | New Neptune |
|---|---|---|
| Channels | 57 international | 56 international |
| TX Frequency  range | from 156.025 to 157.425 MHz | from 156.025 to 157.425 MHz |
| RX Frequency range | from 156.300 to 162.025 MHz | from 156.300 to 162.025 MHz |
| Power | 12 Vcc | 12 Vcc |
| Working temperature | from −15°C to +55°C | from −15°C to +55°C |
| Dimensions (WxHxD) | 177x72x146 mm | 170x70x160 mm |
| Weight | 1,2 Kg | 1,305 Kg |
| Accessory jack | Speaker 3,5mm Mono/GPS | Speaker 3,5mm Mono/GPS |
| Programmable | Via software (PRG-NEPTUNE 100) | Via software (PRG-NEPTUNE) |
| Waterproof grade | IPX7 | IP54 |
| Transmitter | | |
| Output power | High (HI): 25W - Low (LO): 1W | High (HI): 25W - Low (LO): 1W |
| Receiver | | |
| Sensitivity  (20dB Sinad) | < 0.5µV | < 1,0µV |
| Output power audio | > 2W @ 8 Ohm | > 2W @ 8 Ohm |
| Ontermediate frequencies | 1°: 21.4MHz – 2°: 405KHz | 1°: 21.4MHz – 2°: 405KHz |

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# Accessories

## Microphone with adjustable earphone and VOX/PTT (spiral wire)

**MA 21-D - C709**

**MA 21-L - C709.03**

## Palm speaker/mike with volume knob and earphone jack

**MA 26 - L – C515.01**

## Arm microphone with adjustable earphone and PTT/Vox

**MA 30 - L – C648.03**

## Microphone with earphone and PTT/Vox

**MA 28 - L – C559.03**

## Double position desktop charger

**CA-ATL/G7 - C785**
including two adaptors to recharge the battery pack.
**Compatible with**:
Atlantic XT

## Rechargeable battery packs

**PB-ATL/G7 - C784**
800mAh
**Compatible with**:
Atlantic XT and Pacific

## Car charger

**ALG7 - C814**
**Compatible with**:
Atlantic XT and Ocean
(not compatible with Pacific)

## Wall chargers

**MW904 - C689**
**Compatible with**:
Atlantic XT and Ocean

**MW905 - C887**
**Compatible with:**
Pacific

## Recharge adaptor for PB ATL/G7

**C827**
Adaptor for the recharging of the battery packs only
Compatible with: Atlantic XT

NEW

## Waterproof case

**CC ATL /G7 WP - C826**
**Compatible with**:
Atlantic XT, Pacific

Communicating while riding

MIDLAND®

Intercom

200 m
Bike to Bike

Waterproof

Stereo

Jet

Open Face

Full Face
Helmet

GSM

GPS

iPod/MP3

PMR446

# Midland BT City&Eva

## Bluetooth headset devices, Intercom, phone call receiver

**Bluetooth™**

**SWAROVSKI**

**NEW**

**Midland BT City&Eva: to answer calls, listen to music and talk to similar devices thanks to the intercom feature.**

**BT City&Eva** have been designed for leisure users that love going for rides. The smallest and most technological Bluetooth Headsets on the market.

**Midland BT City&Eva** can be paired with a mobile phone, GPS or with an iPod/Mp3 Player
**Midland BT City&Eva** connected via Bluetooth to a mobile phone with built-in MP3 player can remote control the features FORWARD/REPLAY and PLAY/STOP
**Midland BT City&Eva** associated to a BT line device (except BT Single) become Intercom Rider to Pillion or Intercom Bike to Bike (with BT City&Eva and BT2) up to 200 mt.
**Midland BT City&Eva** are provided with a plug that allows the wired connection to iPod/MP3 player stereo and PMR446 transceivers
**Midland BT City&Eva** are provided with AGC function that automatically controls the volume in relation to background noise.

## Packaging and codes

BT device, 2 microphones (with boom and wired mikes), stereo headset, connection stereo cable for iPod/MP3 player, wall charger, 2 fixing kits (plate with bi-adhesive strip and screw type clamp).
**Midland BT City code C929**
**Midland BT Eva  code C930**
**Midland BT City TWIN**
dual pack with 2 devices
**code C929.01**
**Midland BT City&Eva TWIN**
dual pack with 1 BT City and 1 BT Eva device
**cod C930.01**

### From the road to the ski run

**BT Ski Audio Kit code C932**
Audio kit with ear warmer with microphone, Hi-Fi stereo headset and velcro strap to fix your device to a ski helmet.
This mounting kit allows you to use your BT City or  BT Eva with ski helmets.

# Midland BT2 Intercom

## Multimedia wireless system

**Bluetooth**™

| | |
|---|---|
| Intercom | |
| 200 m | |
| Bike to Bike | |
| Waterproof | |
| Stereo | |
| Jet | |
| Open Face | |
| Full Face | Helmet |
| GSM | |
| GPS | |
| iPod/MP3 | |
| PMR446 | |

## The real multimedia system for the most demanding riders

**Midland BT2 Intercom** is the dream of all bikers: a communication and entertainment system for bikers enclosed in a single and unique device.

The **Midland BT2 Intercom** can be connected via its Bluetooth mode to a **mobile phone, GPS, MP3 stereo music player**, plus it is fitted with a plug that enables it to be wired to an iPod/MP3 player or to **PMR446 transceivers** for bike to bike group communication.

The **Midland BT2 Intercom** can be used as **Rider to Pillion** wireless intercom system or as a **Rider to Rider** (bike to bike) communication system up **to a maximum range of 200 meters**.

The audio system, with **two stereo speakers**, can be connected to microphones to suit both open and closed faced helmets, with both solutions supplied as standard.

If used in combination with a mobile phone that incorporates an MP3 player feature, **FORWARD/REPLAY and PLAY/STOP controls can be directly managed from the Midland BT2 headset.** Thanks to its large control buttons, drivers can easily and safely select the main mobile features even whilst wearing thick winter gloves. The **Midland BT2 Intercom** is completely **waterproof** and therefore suitable to be used in all weather conditions.

## Technical specifications

### General
› Bluetooth version 2.0 stereo (Headset/Hands-free/A2DP protocol)
› VOX for hands free activation of the Intercom and phone call answer
› AGC technology to automatically adjust volume when noise and speed change
› Control buttons: Intercom, Phone , AUX (wired device)
› Up to 8 hours of conversation

### Bluetooth connections
› To the same device as Rider to Pillion intercom or as Rider to Rider communication over maximum distances of 200 meters
› To mobile phones, GPS (Garmin Zumo and TomTom Rider 1 and 2) and MP3 stereo player supporting A2DP protocol
› To PMR446 transceivers (with built-in or external Bluetooth connection) for communications between groups of bikes

### Wired connections
› Wired connection for stereo music player (iPOD/MP3 player )
› Wired connections for PMR446 transceivers and bike to bike group communications (the connection cable is available as option)

## Packaging and codes

Box with 1 Midland BT2 Intercom device, audio kit with stereo headset, wired and rigid bracket mikes (for open and closed faced helmets), stereo cable for iPOD/MP3 player, fixing mount kit (with bi-adhesive and screw-type clamp) wall charger.
**Midland BT2 Intercom - code C876**

Box with 2 Midland BT2 Intercom devices, two audio kits with stereo headset, wired and rigid bracket mikes (for open and closed faced helmets), two stereo cables for iPOD/MP3 player, 2 fixing mount kits with bi-adhesive and screw-type clamp, wall charger with double plug.
**Midland BT2 Intercom TWIN - code C876.01**

**MIDLAND**®

Intercom

Waterproof

Stereo

Jet

Open Face

Full Face

Helmet

GSM

GPS

iPod/MP3

PMR446

# Midland BT1 Intercom

**Bluetooth**™

## Multimedia wireless system

## Basic communication and entertainment system driver & pillion

**Midland BT1** is the basic **Intercom Driver & Pillion base system**, designed for the bikers who want to communicate in a simple and committable way with a unique and practical device while riding.
The two devices are already matched, you just have to fit them to the helmet and start to talk!
**Midland BT1 Intercom** allows the driver device to be connected via Bluetooth to his own mobile phone or GPS.
**Midland BT1** is provided with **AGC function** that automatically controls the volume in relation to background noise.
**Midland BT1 Driver and Pillion is fitted with a plug that enables it to be wired to an iPod/MP3 player and to PMR446 transceivers** that allow communications between multiple bikes or group of bikes up to 5 Km of distance.
**The driver device, if used in combination with a mobile phone with MP3 player feature, can directly manage the FORWARD/REPLAY and PLAY/STOP controls from the intercom system.**
The passenger device cannot be associated to other Bluetooth devices (mobile phone, GPS and iPod/Mp3).

**BT1-BT2 compatibility:** BT1 can be fitted with any BT2 device for the intercom feature, reaching up to 10mt distance.

## Technical specifications

### General
› Bluetooth version 2.0 stereo (Headset/Hands-free/A2DP protocol)
› VOX for hands free activation of the Intercom and phone call answer
› AGC technology to automatically adjust volume when noise and speed change
› Control buttons: Intercom, Phone , AUX (wired device)
› Up to 8 hours of conversation

### Bluetooth driver connections
› Bluetooth connection with the pillion device for Intercom communications
› Bluetooth connection for mobile phones and for GPS (Garmin Zumo and TomTom Rider 1 and 2)

### Wired driver & pillion connections
› Wired connection for MP3 stereo player and iPod
› Wired connection for PMR446 transceivers and Bike to Bike group communications (the connection cable is available as option)

## Packaging and codes
2 Midland BT1 intercom devices, 2 audio kits with wired or flexible arm microphone, 2 stereo headsets, 2 connection stereo cables for iPod/MP3 player, double wall adaptor and 2 fixing kits: (1 with biadhesive strip and 1 with a screw-type connector).
**Midland BT1 Intercom - code C903**

# Midland BT Single

## Multimedia wireless system

**Bluetooth**™

| | |
|---|---|
| Waterproof | |
| Stereo | |
| Jet | |
| Open Face | |
| Full Face | Helmet |
| GSM | |
| GPS | |
| iPod/MP3 | |
| PMR446 | |

## Bluetooth stereo headset device

**Midland BT Single** is the new Bluetooth headset device designed to satisfy bikers who want to communicate in a simple and efficient manner with a unique and practical device.

**Midland BT Single can be connected in Bluetooth mode to your own mobile phone or your GPS.**

**If used in combination with a mobile phone with MP3 player feature, FORWARD/REPLAY and PLAY/STOP controls can be directly managed from the intercom system.**

**Midland BT Single** is fitted with a plug that enables it to be **wired to an iPod/MP3 player and to PMR446 transceivers** that allow communications between multiple bikes or group of bikes up to 5 Km of distance.

**Midland BT Single** is provided with **AGC function** that automatically controls the volume in relation to background noise.

**BT Single** device cannot be connected with other Midland BT line devices.

## Technical specifications

### General
› Bluetooth version 2.0 stereo (Headset/Hands-free/A2DP protocol)
› VOX for hands free activation
› AGC technology to automatically adjust volume when noise and speed change
› Control buttons: Phone , AUX (wired device)
› Up to 8 hours of conversation

### Bluetooth connection
› Bluetooth connection for mobile phones and for GPS (Garmin Zumo and TomTom Rider 1 and 2)

### Wired connections
› Wired connection for MP3 stereo player and iPod
› Wired connection for PMR446 transceivers and Bike to Bike group communications (the connection cable and wireless PTT button are available as options)

## Packaging and codes
1 Midland BT Single device, 1 audio kit with wired or flexible arm microphone, 1 stereo headset, 1 connection stereo cable for iPOD/MP3 player, wall adaptor and 1 fixing kit with bi-adhesive strip and a screw-type connector.
**Midland BT Single - code C904**

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# Midland BT Line

| Connections | | BT City&Eva | BT2 | | BT1 | | BT Single |
|---|---|---|---|---|---|---|---|
| | | | Rider | Pillion | Rider | Pillion | |
| Intercom | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Intercom up to 200 m | | ✓ | ✓ | ✓ | | | |
| Bluetooth connectable devices | GSM | ✓ | ✓ | ✓ | ✓ | | ✓ |
| | GPS | ✓ | ✓ | ✓ | ✓ | | ✓ |
| | MP3 | ✓ | ✓ | ✓ | ✓ | | |
| | PMR446 * | ✓ | ✓ | ✓ | ✓ | | |
| Wired connections | iPod/MP3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | PMR446 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Helmet compatibility | Jet | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Open face | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Full face | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Mounting system | with screw-type clamp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | with bi-adhesive | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Microphone | flexible arm mike | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | wired arm mike | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

\* PMR446 with built-in Bluetooth or with Bluetooth adapter BPA200

# Wired Intercom system

## AE600 (Basic) and AE600S (Advanced)

The full duplex feature guarantees **bi-directional communication between rider and pillion**, while the **electronic noise canceling system**, ensures noise-free conversations even when traveling at high speeds.

### Main features

› Full-duplex intercom Rider to Pillion feature
› Auxiliary socket for GPS navigator or MP3 player (AE600)
› Built-in FM radio receiver (AE600S)
› 4 auxiliary sockets for: GPS navigator, MP3 player, mobile phone, PMR446 transceiver and PTT button.
› The audio inputs of the devices are managed automatically depending on priority: for example the volume of the FM radio or of the connected MP3 player are automatically reduced when Rider and Pillion are talking (AE600S)
› Powered by 3 AAA batteries
› Powered direct 12V for recharge (AE600S)

### Compatible with:

› **Microphones/speakers:** OHS500, OHS550, CHS300
› **Cigarette lighter 12 V cable:** AL UNI - C519 (AE600S)
› **Wall charger:** MW 903 GS - C606 (AE600S)

### Packaging and codes

Box with 1 Intercom **AE600**, two headsets with boom mike for Rider and Pillion.
**code C874.01**
Box with 1 Intercom **AE600S**, two headsets with boom mike for Driver and Passenger, adaptor cable for 2 way radios and wired waterproof PTT button.
**code C875.01**

# Midland BT Sport

## Bluetooth throat microphone headset

**Midland BT Sport** is a Bluetooth throat microphone/earphone which guarantees clear communications even in harsh conditions. The **BT Sport** is particularly useful in leisure or sport activities such as climbing, bike or motorcycle rides. With the **BT Sport** you can take incoming calls on your mobile phone or you can establish a Bluetooth connection with transceivers incorporating a built-in Bluetooth feature. (Such as the Midland 445BT or with any other transceiver connected to the Bluetooth adaptor BPA 200.)
You can wear it very easily around your neck and choose between two sizes – medium and large – for a better fit.

### Technical specifications

› Throat Bluetooth microphone with Noise Cancelling Technology
› Bluetooth ver. 1.2, Headset and Hands-free profile
› Battery life: up to 7 hours conversation
› Dimensions: Medium 35 ÷ 45 cm, Large > 45 cm

### Packaging and codes

1 throat Bluetooth microphone (large or medium), wall charger
**Large size code C850**
**Medium size code C850.01**

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Intercom

Full Face
Helmet

PTT

PMR446

2 pin

# MA 46

## Motorcycle Rider Kit

The **MA46** can be connected to any radio transceiver with two pin accessory plug, to talk to any other motorbike with the same equipment. It is **equipped with a waterproof PTT button,** that can be applied to the handlebar using the supplied Velcro strap, thus enabling you to manually start radio transmission.
Rider to Pillion Intercom: if the transceiver is equipped with an extra "Intercom" plug (like Midland G8, Alan 456R, Alan860), it is possible to have a full duplex conversation. To connect the Pillion to the radio with the **MA46**, use the BHS303 cable with any type of optional microphone/earphone: CHS300, OHS500, OHS550.
**Rider and pillion communication is always open in Full Duplex.** Bike to Bike communication goes on by pressing the PTT button.

### Compatible with
› All Alan or Midland transceivers with 2 Pin jack (except for Midland G12, Alan 42)

### Not compatible with
› CHS300, OHS550, OHS500, BHS300, BHS301, BHS303

### Packaging and codes
Speaker microphone kit
**code C660**

# BPA200
## Bluetooth™ adapter for transceivers

Thanks to **BPA200** any of the BT Line unit or standard mobile phone earplug available on the market can be connected to a radio.
The ideal solution to connect a radio to most recent helmet models with integrated Bluetooth connection, the **BPA200** incorporates the PTT button, necessary to activate the radio transmission. The cabinet is completely waterproof.

### Technical specifications
› Bluetooth Standard 2.0 (audio mono)
› Max distance: 10m approx
› LI-Ion rechargeable battery 360mAh
› Battery life in conversation: 10 hours approx
› Battery life in stand-by: 1 week approx
› Type of Connector: Audio stereo 2,5mm
› Cable Length: 1,5m (not elongated)

### Compatible with:
› All Alan and Midland models with 1 pin, 2 pin jack
› Midland BT2 Intercom, BT1, BT Single, BT City & Eva

### Packaging and codes
1 BPA200 with PTT key, 230V wall charger and 2 pin adapter
**code C900**

NEW

# Accessories

### Stereo headset (Earwarmer type)

**NEW**

**BT Ski Audio Kit - C932**
Audio kit with ear warmer, two stereo speakers and 1 microphone with boom and velcro strap to fix your device to a ski helmet.
This mounting kit allows you to use your BT City or BT Eva with ski helmets

### Stereo Audio kit (standard)

**NEW**

**BT City&Eva Audio kit - C938**
Audio kit with stereo headset, boom and wired microphone

### Audio kit stereo standard

**BT2 Audio kit - C893**
Audio kit with stereo headset, boom and wired microphone.
**Compatible with** BT2, BT1, BT Single

### Hi-Fi stereo speakers

**Hi-FI Speaker - C895**
Hi-Fi Stereo speakers for better audio quality.
**Compatible with** BT2, BT1, BT Single

### Mounting kit

**NEW**

**BT City&Eva Mounting kit - C937**
Fixing mount kit with bi-adhesive and screw-type clamp

### Mounting kit

**Mounting kit - C898**
Fixing kit with bi-adhesive and screw-type clamp.
**Compatible with** BT2, BT1, BT Single

### Cigarette lighter 12V

**AI 12 V - C894**
Cigarettes lighter 12 V, power supply cable with mini USB
**Compatible with** BT City&Eva, BT Ski, BT2, BT1, BT Single

### Charger

**NEW**

**Emergency Charger - C920**
In case of emergency and flat battery Emergency Charger allows to recharge the several models of the BT line, to recharge the devices with MiniUSB jack and many models of cell phones with adapter cables

### Kit for 2 pin radio connection

**Kit 128**
Kit for 2 PIN radio connection with PTT (suitable for Midland G6, Midland G7 XT, Midland G8, Midland G9).
It includes: BT312+BHS300
**Compatible with** BT City&Eva, BT Ski, BT2, BT1, BT Single

### Kit for 1 pin radio connection

**Kit 129**
Kit for 1 PIN radio connection with PTT (suitable for Midland 777, Midland G5).
It includes: BT312+BHS301
**Compatible with** BT City&Eva, BT Ski, BT2, BT1, BT Single

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**Clamp BT XL Dual Fix - C836.01**
Dual fix extra long helmet clamp with mic/double speaker and bi-adhesive (20 cm)
**Compatible with** BT Intercom, BT Rider, BT Rider FM

20 cm

**BT 312 - C905**
Adapter cable to connect transceivers.
This cable needs to be combined with BHS300 or BHS301 cables

**Intercom speaker/mike solutions**

**CHS300 - code C802**
Microphone/speaker for full helmet

**OHS550 - code C801**
Microphone/speaker with internal arm

**OHS500 - code C800**
Microphone/speaker with external arm

**BHS300 - code C797**
2-pin radio adapter cable with PTT

**BHS301- code C798**
1-pin radio adapter cable with PTT

**BHS303 - code C799**
Adapter cable for passenger intercom jack

**EXT300 - code C853**
Extension cable 2 mt

**SHS300 - code C852**
Stereo headset for full and jet helmet with 3,5 mm to 2,5 mm plug adaptor

**How to pick the right cable:**
a)  first pick the type of Microphone/earphone suited to your helmet (OHS500, OHS550, CHS300)
b)  then pick the cable (BHS300, BHS301) suited for your radio (1 pin or 2 pin jack)
The BHS303 adapter cable is only used to connect the passenger with radio devices that have intercom jacks.

Press PTT for bike/bike and driver/passenger communications.

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# X-Turbo car/truck CB antennas

**X-Turbo 48**
code C778

**X-Turbo Camper 27**
code C863

**X-Turbo Mini**
code C864

**X-Turbo 60**
code C871

**X-Turbo 80**
code C872

**X-Turbo Mini Mag**
code C865

|  | X-Turbo 48 | X-Turbo Camper 27 | X-Turbo Mini | X-Turbo 60 | X-Turbo 80 | X-Turbo Mini Mag |
|---|---|---|---|---|---|---|
| Operating frequency (MHz) | 26-28 | 26-28 | 26-28 | 26-28 | 26-28 | 26-28 |
| Number of channels | 200 | 120 | 60 | 200 | 200 | 60 |
| Maximum applicable power (W) | 200 | 50 | 10 | 800 (max 1500) | 1000 (max 1700) | 10 |
| Min SWR in centre band | < 1.2 | < 1.2 | < 1.4 | < 1.2 | < 1.2 | < 1.4 |
| Length (cm) | 150 | 114 | 31 | 160 | 180 | 31 |
| Impedance (Ohm) | 50 | 50 | 50 | 50 | 50 | 50 |
| Weight (g) | 540 | 430 | 260 | 670 | 690 | |
| Whip material | Stainless steel | Fiberglass | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Connector type | 3 pieces | PL 259 | - | 3 pieces | 3 pieces | |
| Hole diameter (mm) | 12,5 | 16 | 10 | 10 | 10 | - |
| Cable (m) | 4 | - | 4 | 4 | 4 | 4,5 con PL 259 |

# Car/truck CB antennas

**Alan PC 4**
code T739
**Alan PC 6**
code T736
**Alan PC 8**
code T701

**Alan S9 Plus**
code T638

**Funk 90**
code T638.04
**Funk 130**
code T638.05
**Funk 150**
code T638.06

**Picco 70C**
code T638.12

**Picco 70S**
code T638.13

**ML 145**
code T562.01

| | Alan PC 4/6/8 | Alan S9 Plus | Funk 90/130/150 | Picco 70C | Picco 70S | ML 145 |
|---|---|---|---|---|---|---|
| Operating frequency (MHz) | 25-30 | 25-30 | 26-28 | 26-28 | 26-28 | 26-28 |
| Number of channels | 150/240/130 | 200 | - | - | - | 90 |
| Maximum applicable power (W) | 400/600/800 | 300 | 200/250/300 | 100 | 100 | 400 |
| Min SWR in centre band | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| Length (cm) | 115/160/163 | 155 | 90/130/150 | 70 | 70 | 146 |
| Impedance (Ohm) | 50 | 50 | 50 | 50 | 50 | 50 |
| Weight (g) | 450 | 390 | 160/190/200 | 180 | 180 | 350 |
| Whip material | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Connector type | 3 pieces | DV | DV | DV | DV | PL |
| Hole diameter (mm) | 10 | 12,5 | 10 | 10 | 10 | 16 |
| Cable (m) | 4 | 4 | -/4/4 | 4 | 4 | - |

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# Car/truck CB antennas

| | Mini | Supermini |
|---|---|---|
| Frequency (MHz) | 26÷28 | 26÷28 |
| Number of channels | 40 | 40 |
| Maximum applicable power (W) | 80 | 30 |
| Min SWR in centre band | 1.2:1 | 1.2:1 |
| Length (mm) | 680 | 330 |
| Impedance (Ohm) | 50 | 50 |
| Weight (g) | 210 | 130 |
| Whip material | Stainless steel Inox | Fibre |
| Connector type | 3 pieces | 3 pieces |
| Hole diameter (mm) | 12,5 | 10 |
| Cable (m) | 4 with PL259 | 4 with PL259 |

### Mini
**code C593**

### Supermini
**code C592**

# CB magnetic antennas

### KIT 007
**ML145 + BM 120 PL**

High power
antenna
complete with
Ø 120 mm
magnetic base

### Midland 18-244M
**code T788**

Small antenna
complete with
cable and
connector

### Ministar 27
**code C813**

Only 35 cm long

| | KIT 007 | Midland 18-244M | Ministar 27 |
|---|---|---|---|
| Operating frequency  (MHz) | 26-28 | 26.965-27.405 | 26-28 |
| Number of channels | 90 | 40 | 40 |
| Maximum applicable power  (W) | 400 pep | 100 | 10 |
| Min SWR in centre band | < 1.2 | 1:1,2 | 1:1,2 |
| Length (cm) | 146 | 66 | 35 |
| Impedance (Ohm) | 50 | 50 | 50 |
| Weight (Kg) | 1,6 | 0,5 | 0,5 |
| Whip material | Stainless steel | Stainless steel | Stainless steel |
| Mount | Magnetic base 120mm with PL | Magnetic base Ø 90 mm | Magnetic base Ø 29 mm |
| Cable (m) | 2,9 | 2,75 | 3 |

# CB/VHF marine antennas

CB

**Azzurra 40**
**code T454**

Suitable for fibre glass camper

VHF

**Shark 3**
**code F483**

VHF

**Shark 4**
**code F484**

The **Shark 4** is equipped with a removable whip to permit total craft coverage during dry docking and pivot for easy adjustment in any position. Die cast body and fibre whip.

**Shark 3** is equipped with a fore-mast fixing bracket made of stainless steel and SO 239 connector for direct antenna cord connections. Waterproof coil. Specifically suited for small crafts and rubber rafts.

|  | Azzurra 40 | Shark 3 | Shark 4 |
|---|---|---|---|
| Operating frequency (MHz) | 27 | 156÷162 | 156÷162 |
| Number of channels | 40 | 600 | 600 |
| Maximum applicable power (W) | 50 | 100 | 100 |
| Min SWR in centre band | 1:1,1 | 1,1÷ 1,5 | 1,1÷ 1,5 |
| Length (cm) | 160 | 140 | 140 |
| Impedance (Ohm) | 50 | 50 | 50 |
| Weight (g) | 700 | 200 | 700 |
| Whip material | Fibre | Fibre | Fibre |
| Connector type | w/o PL | SO 239 | w/o PL |
| Cable (m) | 4 | - | 4 |

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# VHF-UHF car/truck antennas
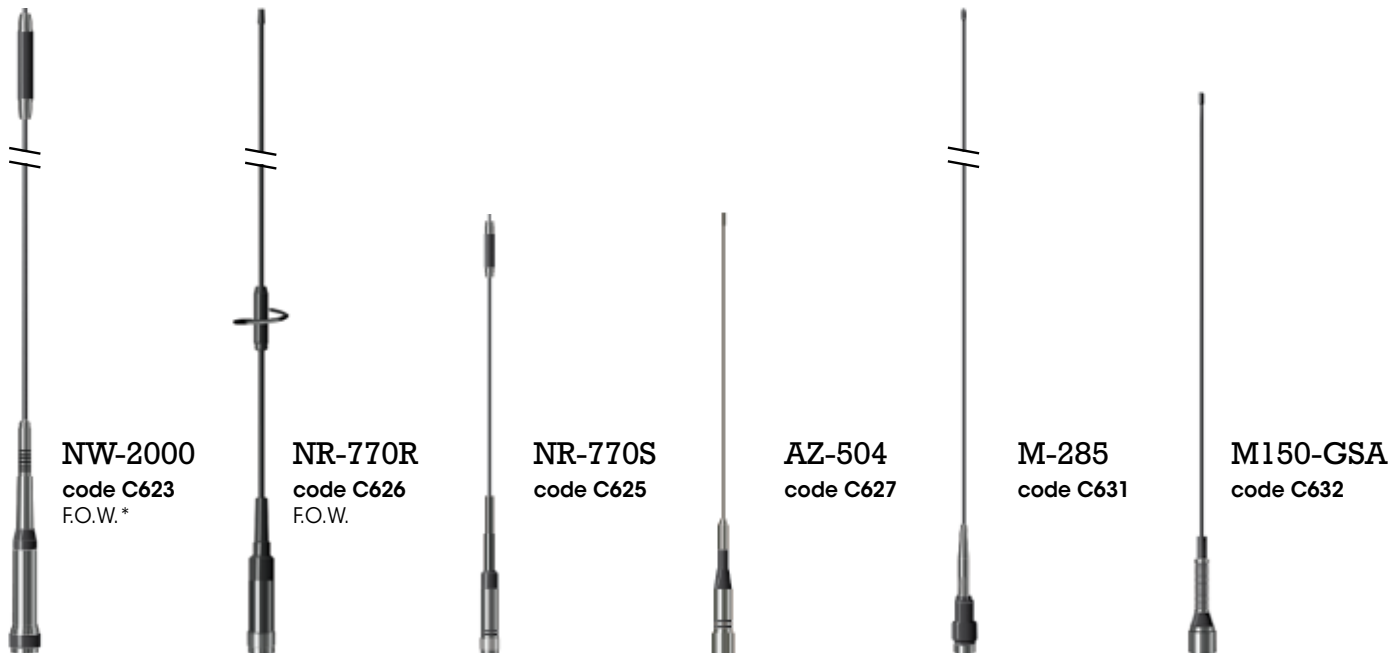


| | NW-2000 | NR-770R | NR-770S | AZ-504 | M-285 | M150-GSA |
|---|---|---|---|---|---|---|
| Frequency | 144/430 MHz | 144/430 MHz | 144/430 MHz | 144/430 MHz | 138-174 MHz | 138-174 MHz |
| type | 1/2λ(144 MHz) 2x5/8λ(430 MHz) 200 W | 1/2λ(144 MHz) 2x5/8λ(430 MHz) 200 W | 1/4λ(144 MHz) 1/2λ(430 MHz) 100 W | 1/4λ(144 MHz) 1/2λ(430 MHz). 50 W | 5/8λ200 W | 1/4λ200 W |
| Length (cm) | 98 | 98 | 43 | 46 | 100 | 51 |
| Connector type | PL | PL | PL | PL | PL | PL |

**F.O.W.: Foldable structure**
The foldable whip guarantees extreme antenna mobility in any direction letting you easily park in your garage without having to remove the antenna. Safety lock for safe driving.

## VH 1
code F092

## VH 2
code F093
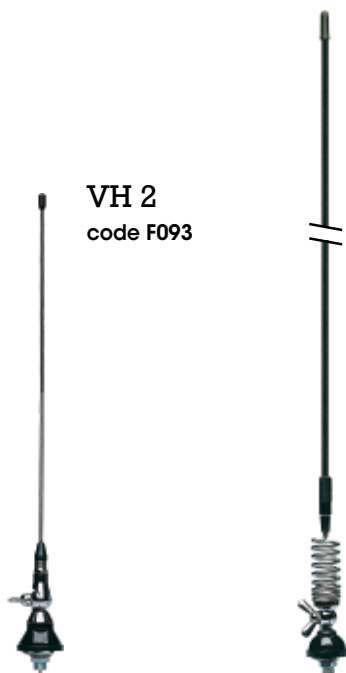


| | VH 1 | VH 2 |
|---|---|---|
| Operating frequency | 140:175MHz | 140:175MHz |
| Max applicable power | 100W | 100W |
| Min SWR in centre band | 1:1,2 | 1:1,2 |
| Length (cm) | 51 | 134 |
| Impedance | 50 Ohm | 50 Ohm |
| Weight | 300 g | 450 g |
| Whip material | Stainless steel | Fibre |
| Connector type | PL259 (not supplied) | PL259 (not supplied) |
| Hole diameter | 12 mm | |
| Cable | 4m | 4 m |

# VHF-UHF portable antennas

**RH-707 Flex**
code C635
Flex-Tilt

**RH-701**
code C634
Flex

**RH-771**
code C637
Flex

**RH-775**
code C638
Telescopic

**RH-777**
code C639
Flex-Tilt

**RH-779**
code C640
Telescopic-Tilt

| | RH-707 FLEX | RH-701 | RH-771 | RH-775 | RH-777 | RH-779 |
|---|---|---|---|---|---|---|
| Frequency | TX: 144/430 MHz | TX: 144/430 MHz | TX: 144/430 MHz | TX: 144/430 MHz | TX: 144/430 MHz | TX: 144/430 MHz |
| Type | 1/4λ | 1/4λ | 1/4λ(144MHz) 1/2λ(430MHz) | 1/4λ (144 Mhz) 1/2λ (430 MHz) | 1/4λ | 1/4λ - (144 MHz) 1/2λ - (430 MHz) |
| Band | 120-150/300-450 MHz 800-900 Mhz only in RX | 120-150/300-450 MHz 800-900 Mhz only in RX | 120-150/300-450 MHz 800-900 Mhz only in RX | 120-150/300-450 MHz 800-900 MHz only in RX | 120-150/300-450 MHz 800-900 Mhz only in RX | 120-150/300-450 MHz 800-900 Mhz only in RX |
| Length (cm) | 21 | 21 | 40 | 14-41 | 40 | 14-41 |
| Connector type | BNC | BNC | BNC | BNC | BNC | BNC |

**RH-519**
code C641
Super Flex

**RH-536**
code C644
Super Flex

**CH-32**
code C642

**SRH-536**
code C646
Super Flex - SMA

**SRH-701**
code C645
Super Flex-SMA

| | RH-519 | RH-536 | CH-32 | SRH-536 | SRH-701 |
|---|---|---|---|---|---|
| Frequency | TX: 144/430 MHz | TX: 144/430 MHz | TX: 144/430/900MHz | TX: 144/430 MHz | TX: 144/430 MHz |
| Type | 1/4λ- 2m/70cm | 1/4λ- (144 MHz) 1/2λ- (430 MHz) | 1/4λ- (144/430/900 MHz) | 1/4λ - (144 Mhz) 1/2λ- (430 MHz) | 1/4λ |
| Band | 120-150/300-450 MHz 800-900 MHz only in RX | 120-150/300-450 MHz 800-900 MHz only in RX | | 300/800 MHz 900 MHz only in RX | 120-150/300-450 MHz 800-900 Mhz only in RX |
| Length (cm) | 20 | 36 | 4.5 | 37 | 21 |
| Connector type | BNC | BNC | BNC | SMA | SMA |

®MIDLAND

# Accessories

## Gutter mount

**GR PLUS - T786**
Designed to install any mobile antenna on the gutter without drilling holes in the car body.

## Gutter mount

**GR-F INOX - T751**
Stainless steel for car antennas, with fastening hole reducer.

## Gutter mount

**GR-S INOX - T753**
Stainless steel with dual tilt for car antennas, with fastening hole reducer.

## Gutter mount

**Gronda 27 - T054**
Designed to install any mobile antenna on the gutter without drilling holes in the car body.
The special rubber suction cup guarantees perfect adhesion to the roof of the car.

## Gutter mount

**SP-S INOX - T752**
Stainless steel for car antennas, with adjustable tilt and fastening hole reducer.

## Mirror mount

**SP 21 - T390**
Designed to install any mobile antenna on the rear view mirror, avoiding drilling holes on the car body.

## DV/SO239 centre-roof adapter

**DV 27 PL - T599**

## 3 pieces cable

**T633**
Complete spare cable for PC series antennas and centre-roof mount
Cable type: RG58
Length: 4m

## Specific screw, connector for FC 27 and Midland antenna base

**SC 27 - T441** Specific screw
**LC 27 - T370** Connector
**FC 27 - T478** Antenna base

## Artificial grounding surface

**PMA-2 - C716.02**
Allows you to use standard car antennas on vehicles with fibre glass and plastic roofs (camper, trailers, boats). Extremely simple assembly: just change the original antenna cable and adjust the trimmer for minimum ROS in centre band.

**Technical specifications**
Frequency: CB band - channels: 40
Length: 8m - antenna connector:
3 pc type - cable: RG 58

**Note:** the PL 259/R transmitter side connector is supplied but not fixed on the wire

## Centre-roof mount for US antennas

**T301 - Centrotetto**
Cable type: RG58
Length: 3,5 m

## RG58 cable connector

**PL 259/R - T292.02**
6mm connector (reduced)

**PL 259/RL code T377**

## SO239 to RCA adaptor

**SA 95 - T211**

## RG8 – RG213 cable and BNC/SO239 connectors

**PL 259 - T205**
for RG8 and RG213

**UG 255 - F076**
for BNC/SO239

## CB radio connection cable

**R 45/58-U - T194**
Cable type: RG58
Length:45 cm

**R 90/58-U - T193**
Cable type: RG58
Length: 90 cm

## Coaxial cables

**RG 58/U - T199**

**RG 58/I - T199.03**

**RG 58/U White - T200**

**RG 58/AUX - T197**
Impedance: 50 Ohm
Package:100 m

**RG 58/H - G326**
Low loss coaxial cable
Impedance: 50 Ohm
Package:100 m

**RG 213 - T571**
Impedance: 50 Ohm
Package:100 m

**RG 213 U - T571.01**

## Magnetic bases

**BM 120 DV - T 057**
**BM 140 DV-B - T 063.01**
Designed to resist high speeds. Equipped with scratch proof magnet cover cap. Supplied with pre-assembled universal DV 27 base.

**BM 120 PL - T036**
**BM 140 PL-B - T052.01**
Designed to resist high speeds. Equipped with scratch proof magnet cover cap. Supplied with assembled PL mount.

**BMU 120 - C888**
**BMU 140 - C889**
Adaptor for PL, DV and centre-roof mounting

| | BM 120 DV | BM 140 DV-B | BM 120 PL | BM 140 PL-B | BMU 120 | BMU 140 |
|---|---|---|---|---|---|---|
| Frequency range | 26-30 MHz | 26-30 MHz | 26-460 MHz | 26-460 MHz | 26-460 MHz | 26-460 MHz |
| Max speed | 80/130 Km/h | 130/180 Km/h | 80/130 Km/h | 130/180 Km/h | 80/130 Km/h | 130/180 Km/h |
| Base diameter Ø | Ø: 120 mm | 140 mm | 120 mm | 140 mm | 120 mm | 140 mm |
| Weight | 750 gr | 1.400 gr | 700 gr | 1.450 gr | 700 gr | 1.450 gr |
| Cable | 3m | 3m | 3m | 3m | - | - |

**◈MIDLAND**®

# CB Base antennas

# VHF/UHF Base antennas

### Energy New 1/2
**T241.02**

### Energy New 5/8
**T242.02**

### X30
**C614**

### X50
**C615**

### F-22A
**C619**

**WITH WATER INFILTRATION PROTECTION SYSTEM**
**Energy New 1/2 and Energy New 5/8 are** telescopic base antennas, 1/2-5/8 lambda ground plane, operating on 27MHz, made of rust-proof aluminium.
**All elements are telescopic and facilitate installation.**

**HQJ:** Made with high quality and durable hinges.
**DCG:** Short-circuit grounded antenna to protect your equipment from electrostatic shock during storms.

# Broad band antennas

### Skylab
**T233**

The base is a single aluminium block that provides maximum mechanical strength and optimum sealing of joints. The antenna requires no adjustment, since it is preset in the factory. This frame anchors the three radials to the supporting pole and prevents them from whistling when the wind is blowing. The **Skylab** can be mounted directly on the base and will accept support poles with 30-35 mm diameter.

### Sky Band
**T601**

**Sky Band** is the result of extensive studies to provide full coverage amateur antenna use. In fact **Sky Band** provides continual coverage reception up to 1300 MHz and transmits on all amateur bands from 144 on. Practical for multiband devices and "dualbander" for Full Duplex transmissions. Stainless steel whips.
Support: The antenna can be installed on Ø35 mm poles.

| | Energy New 1/2 | Energy New 5/8 | Skylab | Sky Band | X30 (DCG) | X50 | F22 |
|---|---|---|---|---|---|---|---|
| Operating frequency (MHz) | 25-29 | 25-29 | 26-28 | 25-1300 | 144-430 | 144-430 | 144 MHz |
| Max applicable power | 500 W PEP | 500 W PEP | 1000 W | 200 W | 150 W | 200 W | 200 W |
| Impedance | 50 Ohm | 50 Ohm | 50 Ohm | 50 Ohm | 50 Ohm | 50 Ohm | 50 Ohm |
| Min SWR in centre band | 1.2:1 | 1.2:1 | 1.5-1 | 1.5-1 | 1.5-1 | 1.5-1 | 1.5-1 |
| Length | 5750 mm | 6500 mm | 5500 mm | 2920 mm | 1300 mm | 1700 mm | 3200 mm |
| Weight | 2,1 Kg | 2,5 Kg | 2,3 Kg | 1 Kg | 0.8 Kg | 0.9 Kg | 1,3 Kg |
| Ø support pole | 30-40 mm | 30-40 mm | 30-35 mm | 35 mm | | | |
| Connector | SO 239 | SO 239 | SO239 | SO 239 (PL 259 on the cable) | SO239 | SO239 | SO239 |
| Whip material | Aluminium | Aluminium | Aluminium | Stainless steel | Fibreglass | Fibreglass | Fibreglass |

# VHF/UHF portable transceivers

MIDLAND®

CTCSS/DCS

Emergency

Vox

Chronometer

FLASH LIGHT
Flash light

FM RADIO
FM radio

Battery level

Scrambler

Roger beep

Scan

Key Lock

Hi/Low power

Programmable

BATT.PACK

Battery type

2 Pin Kenwood

66. Consumer Radio

# Midland CT 790

## Dual band VHF/UHF
## multi-task transceiver

Combining the latest technology in radio communication along with a sturdy mechanical frame, **CT790** makes the ideal and effective solution for the professionals who need to stay in touch with colleagues (construction sites, buildings, hotels, trade fairs, shows) or with leisure users that just want to keep up with friends and family.

Its robust frame and ease of use mean that **CT790** is useful in any activity. All the main functions are settable through the keypad.

**CT790** displays both the used frequency bands. This is the main characteristic of this unique radio!

It is possible to choose 4 kinds of band information to display:

› The frequency of the bands
› The channel of the bands
› Both frequency and channel
› The name of the channels

Both frequencies and channels can be set through the alphanumeric keypad.

**CT790** has been designed to be a multi-task working instrument.

Thanks to its several particular functions, CT790 is at the same time a Dual band UHF/VHF transceiver, chronometer, FM radio and flashlight.

### Version

**CT 790:**
Dual band VHF/UHF

### Colour

**Black**

NEW

### Main features

› Frequency range: 144-146 MHz & 430-440MHz (Rx / Tx).
› Working modes: UHF-VHF, VHF-VHF o UHF-UHF
› Output power: 5W VHF /4W UHF
› 128 storeable channels
› VOX function
› Chronometer
› 105 DCS codes and 50 CTCSS tones
› Repeater tone 1750 Hz
› VOICE function: Voice indication of the selected function
› SOS Emergency function
› Wide/narrow bandwidth selection: 25kHz/12,5 kHz
› 3 available display modes: Channel number and channel name
› Frequency band
› Reverse frequency function
› Scan function
› Flashlight
› FM radio receiver
› Frequency steps: 5 kHz, 6.25 kHz, 10 kHz, 12.5 kHz, 25 kHz, 50 kHz o 100kHz
› Output power selectable: high(4-5W) or low (1W)
› Offset frequency setting: 0-69.950 MHz
› Frequency shift direction setting
› Busy channel lockout function
› Vocal indicator of the Low battery level

› Roger Beep tone at the beginning/end of the transmission
› TOT function (Time out timer)
› Keypad lock function
› Scan of the frequencies with CTCSS/DCS tones
› DTMF Encoder
› Reset function
› Operates with: Li-Ion battery pack
› **Accessory jack: 2 PIN KENWOOD**

### Packaging and codes

Box with 1 radio, antenna, 1300 mAh Li-Ion battery pack, belt clip, desktop charger, hand strap
**code C924**

### PRG CT 790

Programming software for CT 790 complete with USB cable for PC
**code C927**

# Midland CT 210
# Midland CT 410

## Amateur units in VHF/UHF

**CT 210 and CT 410** operate respectively on VHF and UHF bands. Thanks to their vast range of technical specifications and functions they are positioned at the top of the range of amateur units.

The display can be adjusted in three different colours to improve the reading quality in any situation; with the alphnumeric keypad you can easily set the frequency and channels and the very practical Vox function that allows you to talk hands free without having to press any keys.

Both models are equipped with a Li-Ion 1.200 mAh battery pack that guarantees 11 hours of autonomy and the rapid desk top charger that can charge the complete radio unit or just the battery pack.

## Versions
**CT 210:** VHF
**CT 410:** UHF

## Colour
**Black**

## Main features

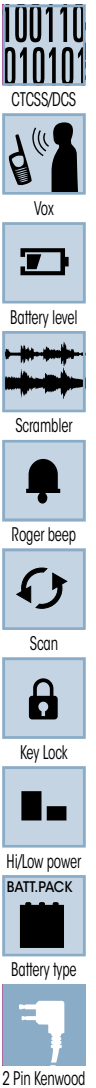- › Frequency:       CT 210 144-146 MHz
- ›                   (export version 136-174MHz)
- ›                   CT 410 430-440 MHz
- ›                   (export version 400-470MHz)
- › Output power:    CT 210 4W VHF
- ›                   CT 410 4W UHF
- › 50 CTCSS tones and 105 DCS codes
- › Up to 128 memory channels
- › Channel spacing: 25KHz / 12.5KHz
- › Repeater tone 1750 Hz
- › Repeater shift
- › VOX function for hands-free communications
- › Scan and priority scan function
- › Scrambler
- › LCD display with backlight adjustable in 3 different colours
- › 50 CTCSS tones and 105 DCS codes
- › Time-out Timer (TOT) function
- › Busy channel function
- › Squelch adjustable in 9 different levels
- › Keypad lock
- › Hi/low power selection
- › Channels and frequencies selectable through the keypad
- › Operates with: Li-Ion battery pack
- › **Accessory jack: 2 pin Kenwood type**

## Packaging and codes
Box with 1 radio, fast desktop charger, wall adaptor, Li-Ion battery pack (1.200mAh), belt clip
**CT 210 (VHF) code C841.01**
**CT 410 (UHF) code C840.01**

CTCSS/DCS

Vox

Battery level

Scrambler

Roger beep

Scan

Key Lock

Hi/Low power

BATT.PACK
Battery type

2 Pin Kenwood

MIDLAND®

# Technical specifications and accessories

| | CT 790 | CT210/CT410 |
|---|---|---|
| Frequency | 144-146MHz 430-440MHz | CT210: 144-146MHz CT410: 430-440MHz |
| Working temperature | -30°C to + 60°C | -20°-+50° |
| Output power | VHF: 5W / UHF:4W | CT210: >5W CT410: >4W |
| Max frequency deviation | ≤ ±5KHz | ≥ 5KHz |

| | | |
|---|---|---|
| Spurious radiation | < -60dB | Within European legal norms |
| Frequency stability | ±2.5 ppm | ±2.5PPM |
| RF sensibility | < 0.2uV | < 0.2µV |
| Dimensions (mm) | 58x105x39 | 100×58×33 |
| Weight | 250g | 203g |

## Microphone with adjustable earphone and PTT/Vox

**MA21-K - C843**
(Kenwood type)
compatible with Midland CT 200,
CT 400, CT 210, CT 410, CT 790

## Microphone with acoustic tube earphone and PTT/Vox

**MA21-LK - C732.04**
(Kenwood type)
compatible with Midland CT 200,
CT 400, CT 210, CT 410, CT 790

NEW

## Palm speaker/mike

**MA22-K - C844**
(Kenwood type)
compatible with Midland CT 200,
CT 400, CT 210, CT 410, CT 790

## Desktop charger

**CA-CT 200/400 C849**
Fast charger with wall adaptor
compatible with Midland CT 200,
CT 400, CT 210, CT 410

## Rechargeable battery pack

**PB200/400 - C846**
7,4Vcc Li-Ion 1200mA battery pack
compatible with Midland CT 200,
CT 400, CT 210, CT 410

## Rechargeable battery pack

**PB CT 790 - C931**
1700mAh Li-Ion battery pack
compatible with Midland CT 790

NEW

## Battery pack

**PB127 - F493**
Ni-Cd rechargeable battery pack
with charge jack.
Output voltage: 12V,
Capacity: 700mAh
Compatible with CT 180, CT 145

## Leather case

**CS 200/400 - C845**
Leather case for Midland CT 200, CT
400, CT 210, CT 410

## CT200/400 CT210/410 antennas

**ANT200 - C847**
**ANT400 - C848**

**ANT210 - C847.01**
**ANT410 - C848.01**

## CT180 antenna

**Antenna CT 180 - C612**

**7**

GPS locators, Video camera, Scanners

MIDLAND®

Emergency situations


Children's and elders' security


Outdoor activities


Anti-theft device for every kind of vehicle


MyTrack software

# GPS locators, Emergency system and anti-theft device



## Geopoint Box SMS



## Geopoint Voice LCD

### Main characteristics for both

To trace people, vehicles or goods

Portable satellite anti-theft device for cars and bikes

Settable sending of the position, speed and altitude

Emergency SOS text message to communicate the entrance and the exit from a specific location(geofencing)

Networking with a PC through GPRS/INTERNET

Equipped with the MyTrack PC software, which allows to show the position of the device on the map.

**SOS** By pressing the SOS button, SMS messages are sent to a maximum of 4 preset phone numbers.

Updating and customizing of the functions by logging onto www.geopoint.it

### Geopoint Voice LCD version

Guide towards a preset destination or towards the starting point of a trail.

Data link with another Geopoint device with indications of the distance and the directions to reach it.

It includes voice calling like a GSM phone.

**If you have a SIM card:**
Rechargeable - the communication between the device and the MYTrack software comes about solely through GPRS network.
Account – the communication between the device and MyTrack software comes about through GPRS or through data sending/reception (only if the data number has been activated with the network provider).

## Technical specifications Geopoint Box

| | |
|---|---|
| GPS Receiver | SiRFstart III – 20 Channels |
| GSM frequency | 850/900/1800/1900 MHz |
| Data storage | 512KB |
| Port | N. 1 mini USB |
| Sensors | N. 1 movement |
| Dimensions/Weight | 74x74x23mm / 120gr |
| Battery | Standard Li-ion 1000mAh |
| Conformity | CE |

## Technical specifications Geopoint Voice LCD

| | |
|---|---|
| GPS Receiver | SiRFstart III – 20 Channels |
| GSM frequency | 850/900/1800/1900 MHz |
| Data storage | 2MB FLASH non-volatile |
| Port | N. 1 mini USB |
| Sensor | N. 1 movement |
| Dimensions/Weight | 74x74x23mm / 120gr |
| Battery | Standard Li-ion 1000mAh |
| Conformity | CE |

## Packaging and codes Geopoint Box SMS

1 GPS GEOPOINT BOX SMS, 1 Wall charger, 1 car charger, 1 USB cable, Li-Ion battery pack, CD ROM for software MyTrack, user manual for the unit, user manual for MyTrack software.

**code C911.06 Geopoint White**
**code C911.07 Geopoint Grey**
**code C911.08 Geopoint Green**

## Packaging and codes Geopoint Voice LCD

1 GPS GEOPOINT VOICE LCD with vocal functions and data memory of 2MB, 1 earphone Kit, 1 Wall charger, 1 car charger, 1 USB cable, Li-Ion battery pack, CD ROM software MyTrack, user manual for the unit, user manual for MyTrack software.
**code C912.06 Geopoint White**
**code C912.07 Geopoint Grey**
**code C912.08 Geopoint Green**

# Midland XTC-100 Xtreme Action Camera

## Video camera

**XTC-100 Xtreme Action Camera** is the brand new camera with wide angle lens, that makes it **easy to capture the action** of your sports or your outdoor activities!
With the aim of simplicity, the **XTC-100** utilizes a single slide switch to power on/off and record; it captures up to 30 minutes of video that will be automatically saved to an internal SD memory card with a capacity of 2GB. For longer recordings **XTC-100** supports SD memory cards up to 32GB.
Thanks to the mounting plates and handlebar mount supplied:
› ski goggle mount
› bicycle helmet mount
› helmet mount
› handlebar mount
**Xtreme Action Camera** has multiple applications and is suitable for any sport activity.

### Colour
**Black**

### Main features
› One touch operation ON-OFF/REC
› Resolution SD: 640 x 480
› Frame Rate- 30 FPS
› Field of view: 140°
› Max memory card size: up to 32GB
› Battery: 2 x AAA alkaline type
› Dimensions LxDxH: 85,2 x 30,3 x 42,2 mm
› Weight: 93gr
› Recording time: 30 min/2GB
› Format: MJPEG

### Packaging and codes
1 videocamera, SD Memory card with 2GB capacity, ski goggle mount, bicycle helmet mount, helmet mount, handlebar mount, 2 AAA alkaline batteries and USB cable.
**Cod. C968**

NEW

®MIDLAND

80 **CHANNELS**

Channels

Police

Ham radio

PMR

PMR446/LPD

Remote control

# AE 69H

## Main features

› **80 programmable channels**
› Crystal liquid display
› Possibility of defining 5 different frequencies for scanning
› Priority channel scanning
› Manual channel access
› Memory backup
› Keypad lock
› Flexible antenna with BNC connector
› Belt clip

## Packaging and codes

1 Radio, antenna and belt clip
**code C795**

| | |
|---|---|
| Frequencies | 66-88 /137-144 / 144-148 MHz • 148-174 / 406-420 / 420-450 MHz • 450-470 / 470-512 MHz |
| Operating channels | 80 |
| Sensitivity (20dB SINAD) | ~ 0.6 a 0.8μV EMF |
| Audio output power Internal speaker Stereo headphones earphone | 245 mW nom. su 8 Ohm 41 mW nominali su 32 Ohm 10 mW nominali su 64 Ohm |
| Power | external 12 VDC - 4 AA alkaline or Nickel-Cadmium rechargeable batteries |
| Dimensions (LxDxH) | 63,5 x 38 x 178 mm |
| Weight | 340 g |

# AE 30H

## Main features

› **200 programmable channels**
› AM, aeronautical and FM bands
› Keypad lock
› Backlit display
› Saved frequency retention
› Earphone or external speaker jack
› Flexible antenna with BNC connector
› Small and lightweight (130g without batteries)
› Belt clip

## Packaging and codes

1 Radio, antenna and belt clip
**code C794**

| | |
|---|---|
| Frequencies | 87,5 - 107,9 Mhz WFM - 108-136.9875 Mhz AM - 137-174 Mhz FM |
| Operating channels | 200 |
| Audio output power | 400 mW |
| Sensitivity (12dB SINAD) | 88.050 - 98.550 - 107.950 MHz (WFM) 0.9μV 119.250 -127.175 MHz -135.500 (AM) 0.4μV 138.150 -162.400 - 173.225 MHz (FM) 0.3μV |
| Power | 3 AA batteries |
| Dimensions (LxDxH) | 50x107x27 mm |
| Weight | 130g |

# Communicating on the snow

Intercom

Waterproof

Stereo

GSM

iPod

MP3

PMR446

# Midland BT Ski

Stereo headset Intercom communication system

Bluetooth™

## Bluetooth system for Intercom communication and entertainment for lovers of the winter sports…

NEW

**Midland BT Ski** is the first wireless Intercom system designed for leisure users who want to practice winter sports without giving up the comfort of Bluetooth communications.

› **Midland BT Ski** can be paired with mobile phone, GPS and iPod/Mp3 Stereo
› **Midland BT Ski** connected via Bluetooth to a mobile phone with built in MP3 player can remote control the features FORWARD/REPLAY and PLAY/STOP
› **Midland BT Ski** associated with another BT Ski device becomes Intercom skier to skier up to 200 mt.
› **Midland BT Ski** can be worn without a helmet, without earpad or thanks to the practical velcro band can be fixed to a semirigid helmet with earpad
› **Midland BT Ski** is provided with a Plug that allows the wired connection to iPod/MP3 player stereo and PMR446 transceivers
› **Midland BT Ski** is provided with AGC function that automatically controls the volume in relation to background noise

### Helmet compatibility

**Semirigid helmet with earpad**
Ear warmer headset + velcro band to fix the device onto the helmet

**Semirigid helmet without earpad**
Ear warmer headset

## Packaging and codes

BT device, audio kit ear warmer type with two stereo speakers and microphone with boom, velcro strip to fix the unit onto the helmet, stereo audio cable to connect iPod/MP3 Player, wall charger.
**Midland BT Ski code C928**
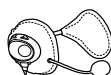
### From the ski run to the road

**BT Moto Audio Kit code C933**
Midland BT Ski can also be used on a bike helmet! Thanks to the optional BT Moto audio kit stereo, BT Ski can be fitted to all kinds of bike helmets.
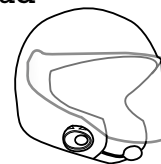
### Sub Zero Music earwarmer

New stereo earwarmer with speaker and wired connection for iPhone/iPod.
**code C936 Black**
**code C936.01 Red**
**code C936.02 White**

# Cte International

## The Cte International Group

Established in 1972 it is today a major player in the radio communications industry on the international scene, with a portafolio of products that ranges over PMR & LPD transceivers, across the CB and amateur range, up to the professional PMR radios dedicated to individual communication networks, professional equipments for public and private fields such as emergency health service or surveillance.

## Interpreting communication needs

By interpreting the market communication needs and applying this knowledge to the most advanced technologies, the company is able to diversify, ranging from in-house development of integrated radio communication products and systems to consulting and distribution world-wide.

## Throughout the years Cte International

Thanks to a focused international expansion strategy, Cte International, with main office in Reggio Emilia, has managed to create over the years a commercial group with branches and associated companies in the most important countries of the world, headed by Cte International Italia, which is the head company, center of all R&D activities and owner of the brands of all products marketed worldwide (**Midland, Alan Professional and Microline**).

From its corporate headquarters in Reggio Emilia, Cte International has progressively consolidated its position by focusing production on 2 main areas that are managed by dedicated business units: **Radio and Microline**.

# Business Units

**MIDLAND®**      **Alan®** Professional Communication      **ALBRECHT®**

## Business Unit Radio

Handles a wide range of products that include every type of CB mobile and handheld transceivers, marine, amateur and a vast range of PMR446 and LPD (low power device) transceivers.
**The Radio Business Unit** also includes devices with built-in **Bluetooth technology**, wireless headset system with Intercom dedicated to bikers, skiers and sport activities.
All products aim to be useful equipment for different situations, such as leisure time, working tasks or sport activities, to communicate without any fees or costs.
Besides the wide range of Midland brand products, the Radio Business Unit also includes Alan Professional equipments, such as mobile and handheld transceivers for independent professional communications networks.
**In the Consumer catalogue issued by Cte International** as well as the traditional **Midland** and **Alan Professional** and brands there is also the **Albrecht brand**, acquired in 2001 by the associated company Alan Electronics in Germany and completely renewed thanks to the 30-year experience of CTE International's R & D department.

**μ line®**
innovation for crime investigation

## Microline Business Unit

The **Microline Business Unit** develops and creates sophisticated and miniaturized products for Intelligence applications.
The **Microline range** of products is entirely designed and manufactured in Italy by Cte International in order to ensure full compliance with specific requirements.
The high level of know-how acquired in the industry has enabled CTE International to work with the **Ministry of Defense, the Ministry of Internal Affairs, Civil Protection Units, the Red Cross** and other important public and private organizations requiring dedicated communication networks.

## Cte Digital Broadcast

**CTE Digital Broadcast**

In the 2008 CTE International together with META System spa, TEKO Telecom spa and CTE Digital Broadcast, have created an industrial pole for the Broadcast field named **CTE Digital Broadcast** with a nominal capital of 5,1 million Euro.
The aim of **CTE Digital Broadcast** is to develop, produce and market analogue and digital trasmission systems for Radio and TV.

# Branches and partners all over the world

**The numerous branches and associated companies of the group** are located in Spain, Germany, Great Britain, France, Greece, Poland, Russia, United States, Bulgaria and Singapore.

Amongst the international successes especially noteworthy is the acquisition of a significant quota of the American company **Midland Consumer Radio of Kansas City**, prestigious for its highly professional technical capacities and its leadership of the CB production and distribution in the United States market.

The associated companies operate with the **same criteria of quality, reliability and R & D investment** which distinguishes the Italian Headquarters, with a corporate image and a constant alignment and overall coordination of the market strategies and production techniques.

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# Certifications



› **ISO 9001 2000**
  **For the design, production and installation of devices and systems of telecommunications for industrial, military, marine and consumer use.**
› **Automotive**
  As approved manufacturer by the Department of Transport for road transport and for IT systems by the Ministry of Transport this guarantees compliance with the severe European Automotive standards and recommendations for quality and technological development.
› **Cte International is an accredited member of ETSI - European Committee for the Definition of Telecommunications Standards** -
  contributing to the definition of harmonised technical specifications for the products and services within the telecommunication range.
› **Cte International is also part of the ANIE Federation commission for research and innovation**,
  part of the Industrial Confederation and represents the electrotechnical and electronic companies operating in Italy.

**SINCERT**

**CERMET**
SISTEMA
DI GESTIONE
CERTIFICATO
REG. N. 1484 - A
UNI EN ISO 9001:2000

*Ministero delle Infrastrutture e dei Trasporti*
Cte International ha ottenuto l'idoneità alla produzione in serie

ASSOCIATO
**ANIE**
FEDERAZIONE

**ETSI**
EUROPEAN TELECOMMUNICATIONS STANDARD INSTITUTE

# Warranty

All our products are guaranteed for a period of 24 months, on condition that they are sent to our Service Centres together with the relevant receipt.
Ask your dealer for the Authorised Customer Service Centre nearest to you.
Note: Returns are not accepted unless authorised by the Sales Department or Customer Services Department and sent on freight prepaid basis. Unauthorised returns will be rejected.

**2 YEARS WARRANTY** *Quality Certified*

This catalogue replaces and annuls previous versions. We reserve the right to change technical and aesthetic features of the devices at any time and without notice.

# Our sponsorships



## 7° Photo Challenge 4x4 in South Algeria

**Again in this year's edition of the race the Midland units supplied by Cte International guaranteed communication between the teams.**

*From the Travellers Journal:* In order to undertake in groups tough trekkings outside of the normal itineraries and in total isolation, it is highly recommendable that each vehicle have a CB transceiver.

Therefore even if in Tunisia and Algeria use is not officially allowed a transceiver is indispensable for any sort of Sahara crossing.

**Thanks to Midland all the vehicles were equipped with very robust and efficient units such as** Alan 48 mobile and the excellant Midland 42 Multi portable model. We also had with us the Midland GPS (the ALAN MAP 500) with which we checked our position every evening with great precision, technological aids which we cannot do without in this day and age!

Por information:

**www.photochallenge.it**

## "Riders4Hope" International Charity Project

**CTE International** has supported through its donation of Midland radios the Riders4Hope project, which involved four motobike riders undertaking the most impervious and demanding rally routes in order to take resources and help where they were most needed during their journey.

Thanks to the **Midland BT2** Intercom units and the **Midland G7XT and G8** radios communication between the four bikers, the team was always assured. The vocal recordings of the trip guaranteed by the Midland communication instruments made it possible for all the persons interested to keep tabs on the development of this great project.

**Technical data of the voyage:** total miles: about 8 miles
**Itinerary:** Milan - London - Budapest and then Ukraine (Lviv, Kiev, Donersk), Russia (Rostov, Astrakan), Kazakistan (Atyrau and Desert of Kizyl Kum), Uzbekistan (Kivha, Bukara, Samarcanda, Tashkent), Kyrgystan and then Tajikistan with all the M41 Pamir Highway (1300km of gravel roads, 5 mountain passes over 4000 mts, Akbaital Pass 4670 mts), arrival at Kurgan Tube on 1st August.

## Donnavventura® 2009 Grand American Raid

**For the 7th year Cte International was the official supplier of technological supports for Donnavventura®.**

The **Midland transceivers**, both mobile and handheld, assured communications and guaranteed the safety of the adventures and the voyage of the six new reporters.

The consolidated **partnership** between Cte International and the well known television format, based on the sharing of values and common philosophy, but above all united by the common belief that every trip should be an adventure full of emotions, discoveries and challenges that we can face.

**100 days of travellig**: from the US Virgin Island to the exclusive Bahamas beaches, from Florida, Georgia, South and North Carolina, Virginia, Pennsylvania, New England, Massachussetts and Vermont, passing through Washington and New York. The team continued its trip through Canada looking for the Grizzly Bear along the St. Lawrence river in order to capture the whales in their lens and to discover Niagara Falls.

**From January 2010 the different phases of the Grand American Raid will be visible every Sunday at 14.00H on Retequattro Channel..**

**MIDLAND**®

## CTE International teams up with Rainbow Aprilia

**CTE International with its Midland radios has sponsored the first Softair competition with Police Forces organized by the A.S.D. Aprilia Rainbow Soft-Air association.**

The event for the first time involved teams from the police forces taking on the competitive tasks prepared by the Aprilia Rainbow association.

All the participating teams were equipped with Midland PMR446 radios as well as various accessories including the well known Action Line range. Clear and quick communication played a fundamental role in the various trials carried out by Aprilia Rainbow in defending their positions against the various police forces.

## The bond between Cte International and the SAM team from Montecchio(RE)

Midland, the epitome of reliability and continuity in the high quality comunication is completely in keeping with the soft air spirit, always based on cooperation between persons, the sharing of information and group spirit.

This is the reason why Cte International/Midland have been the main sponsor of the S.A.M. team from Montecchio Reggio Emilia with its captain **Paolo Spaggiari,** well known opinion leader in this sector and tester of our company products.

## Cte, technical sponsor of the "Rediscovering the Americas" expedition.

A journey in the New World in 4x4 campers organized by the **Ardito Desio Association**, previously famous for heading the expedition which led to the conquest of the K2, which left an indelible landmark in the history of the 19th Century.

Two campers travelled across the entire American continent, from the Land of Fire to Alaska from the beginning of 2008 until July 2009. Throughtout this year and a half numerous meetings with the comunities having ties with Emilia Romagna, Liguria and Friuli took place, with stops in various cities involving itinerant exhibitions dedicated to Ardito Desio, visits to the most important paleonthological (dinosaurs) and archaelogical sites. This is intended as a small contribution towards Geography.

http://www.arditodesio.it/eventi/americas/americas.html

## Endurance Trophy 2009

Cte International/Midland is a partner in the "**Endurance-Mokart Trophy**".

To be able to win the pilots need to receive vital information and with our Midland products the Team Managers have the right instruments to compete decisively.

The **SolarCar-Team** of FH Bochum constructed, designed and developed a solar car, which is solely powered by solar energy. During international races called "Global Green Challenge" the team was inspired of the high quality, dependability and handling of the PMR 446 radios. (Oct.2009- Design Award winner in the Australian Outback)

**www.hochschule-bochum.de/solarcar.html**



The **German Space Education Institute Leipzig called "Nasa Team"** uses the cb-radios Alan 42 Multi to communicate during several international competitions (construction of a special car which is activated by muscular strengths for a Mars expedition)

**www.spacepass.de**



Stéphane Portier, a French Alpine climber on the way to the « Broad Pick » in Pakistan (8047m) !

« One month communication provided by the Midland CT210 »

## Sleddog Pirena 2009

**For over 12 years Midland has been the technical sponsor of the official organizer of the Pirena Sleddog Championship.**

All the staff is equipped with our Midland transceivers and our BT SKI. units.

The Pirena Sleddog Championship is the only event taking place in the Pyrenan Mountains in Spain.



**MIDLAND**®

**07.30**

**10.30**

**14.30**


**Cte international**

**17.30**

**21.30**


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