



07.30



10.30



14.30

2010 Radio Catalogue

24 HOURS IN COMMUNICATION



17.30



21.30



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.



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 buildings or other obstructions is about **1 or 2 Km**. In open space but with obstructions like trees, leaves 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



VHF Marine Transceivers



4

Communicating while riding

Bluetooth devices and interphones



 Bluetooth™


SWAROVSKI

Antennas

5



VHF/UHF Transceivers

6



GPS Locators,
Video Camera

7



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Communicating on the snow

Systems of Intercom communication
and Bluetooth entertainment



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PMR446/Dual-Band Transceivers



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



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 function
- › 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)



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



Mimetic version,
original Mossy Oak®

Packaging and codes

G7XT Mimetic, single box:

1 Radio, wall charger, 4 rechargeable 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

08 CHANNELS

PMR446

69 CHANNELS

LPD

100110
010101

CTCSS/DCS



Call



Vox



Vibracall



Monitor



Battery type

AA TYPE



Battery type



2 pin

08 CHANNELS

PMR446

91 PREPROG

100110
010101

CTCSS/DCS



Emergency



Scrambler



Time Out Timer



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 communication

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 transmission)
- › 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



Midland G8

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



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)

08 CHANNELS

40 PREPROG

100110
010101

CTCSS



Baby sitter



Battery 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**



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

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

08 CHANNELS

18 PREPROG

100110
010101

CTCSS



Baby sitter



Battery type



2 pin



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)**



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**





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



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

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**

Midland 777TR

Multiple Charger Case 777TR

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



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

16 PREPROG



Marine

100110
010101

CTCSS/DCS



FM RADIO



ALARM CLOCK



SOS MORSE



FLASH LIGHT



DYNAMO CRANK



USB CHARGER



Call



Vox



Scan



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 **SOS 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

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**



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 m 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**

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

PRG450
Programming software
complete with USB cable
for PC
code G1069



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



**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



- 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 G12

PMR446 semi-professional radio, compact and sturdy

Version

Midland G12: PMR446

- › 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**

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

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



Base 446

The base station PMR446 for group communication and for work situations

Version

Base 446: PMR446

Colour

Black

Channels

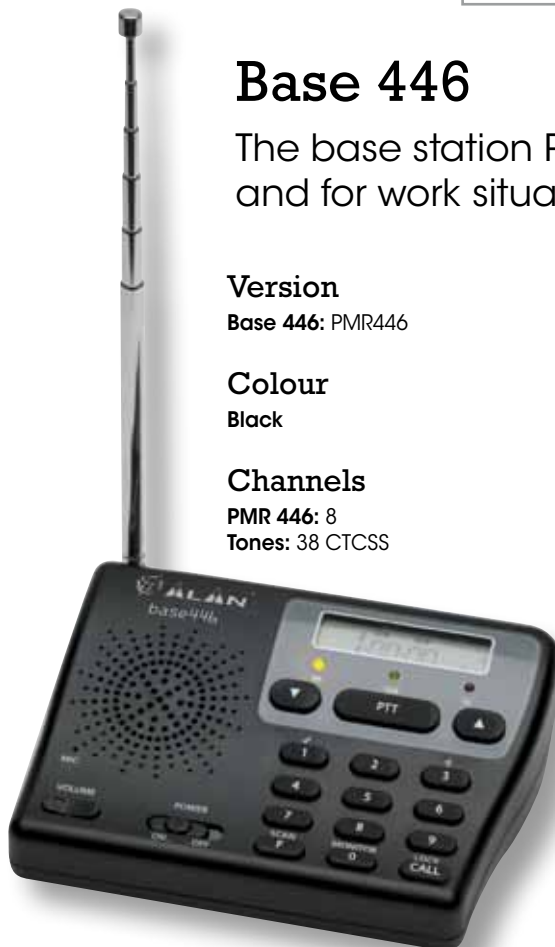
PMR 446: 8
Tones: 38 CTCSS

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 alkaline (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 alkaline batteries (opt)	battery pack 600mAh or 4 AAA recharg. or alkaline 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



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 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 alkaline 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) 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 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

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



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



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



Recharge adaptor for G12

C828

Adaptor for recharging of battery pack only (without radio)

Compatible with: Midland G12



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**



**NOISE
BLANKER**

Noise Blanker



Emergency



Dual Watch



Memory



Signal

12V

Power



6 pin



**NOISE
BLANKER**

Noise Blanker

ESP2

ESP 2



Emergency



S-Meter



Dual Watch



Memory

12V

Power



6 pin

Midland 248

The innovative peculiarity of **Midland 248** consists in its being controlled by a microprocessor. **Midland 248** is synthesized 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



NEW

- "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: noise 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



NEW

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**



Packaging and codes

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



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.

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





Memory



Noise Killer



Emergency



Size



Display



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



Alan 121

ALAN 121 is a **Multi standard CB transceiver with compact and reduced size.**

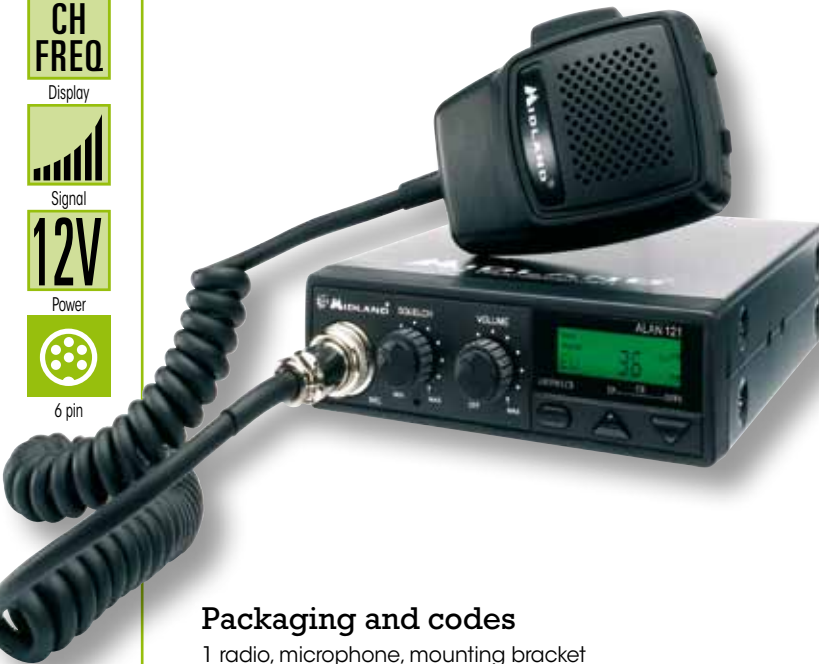
Its essential but clearly visible buttons and controls make it very easy to use as well as offering a complete Multi Band frequency range. The LCD display can be set on 7 different colours to guarantee best reading results under any condition.

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



Display



Signal



Power



6 pin

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**

Packaging and codes

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

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)



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

**NOISE
BLANKER**

Noise Blanker



S-Meter

12V

Power



4 pin



S-Meter

12V

Power



4 pin

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



Alan 48 Plus Multi B

Alan 48 Plus Multi B is an easy to use mobile transceiver that allows 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
- › 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

**MEM**

Memory



Signal

12V

Power



6 pin

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: noise 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

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



Memory



Noise Killer



S-Meter



Power



Power



6 pin



Signal



Power



6 pin

AM

Band



Emergency

12V

Power



5 pin

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 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 condenser 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



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 distortion	< 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 distortion	< 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 for 20 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 distortion	< 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 distortion	< 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



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 distortion	< 8% @ 1KHz	< 8% @ 1KHz	3%@1KHz
Transmitter			
Output power	1W/4W AM	100 Plus: 4W AM-FM max 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

“Old style” Microphone with metal grid

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



Brackets

SU 29 - T452

For CB radios. Practical runner support for radio removal
Compatible with all mobile CB



SA 48 - T769

Complete with 1 bracket, 2 slides, 2 screws.
Compatible with Alan 48, Alan 68S



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



Dual filter

27/586 - T760

Suited to eliminate harmonics and disturbance on TV receivers



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



AU 20 code T775



AU 25 code T681



AU 30 code T682



EH 800 code P348

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



RDT 11/S code C786

Switching technology AUTOMOTIVE approval Nr: 10R-026170



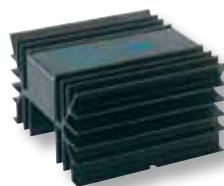
RDT 10/A code C589

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
Frequency	HF
Power	12-14Vcc
RX consumption	14-20A
Input power	1-5W
SSB input power	2-10W

Output power	150W max
SSB output power	300W pep max
Mode	AM-FM-SSB-CW
Fuse	2x12A
Dimensions/Weight	109x210x35mm/ 605g



HF/ VHF linear power amplifier

(not for use in European Union)



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

Mobile/portable marine transceivers

3



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



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



Splashproof



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 visible.

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



Power



Hi/Low power



Agenda



Scan



Dual Watch



Tri Watch



Programmable



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
Intermediate frequencies	1°: 21.4MHz - 2°: 405KHz	1°: 21.4MHz - 2°: 405KHz

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



Waterproof case

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



4

Communicating while riding





Midland BT City&Eva



Bluetooth headset devices, Intercom, phone call receiver



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



Intercom



200 m

Bike to Bike



Waterproof



Stereo



Jet



Open Face



Full Face



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 BT1 Intercom

Multimedia wireless system



Intercom



Waterproof



Stereo



Jet



Open Face



Full Face



Helmet



GSM



GPS



iPod/MP3



PMR446



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



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

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





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**



PMR446



PTT



2 pin

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**



Accessories

Stereo headset (Earwarmer type)



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



Audio kit stereo standard

BT2 Audio kit - C893

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



Mounting kit



BT City&Eva Mounting kit - C937

Fixing mount kit with bi-adhesive and screw-type clamp



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



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



Stereo Audio kit (standard)



BT City&Eva Audio kit - C938

Audio kit with stereo headset, boom and wired microphone



Hi-Fi stereo speakers

Hi-Fi Speaker - C895

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



Mounting kit

Mounting kit - C898

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



Charger



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 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



Kit audio Scala Rider Cardo

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



Adapter cable

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



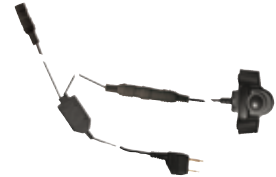
OHS500 - code C800

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.



5

Antennas

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	-

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



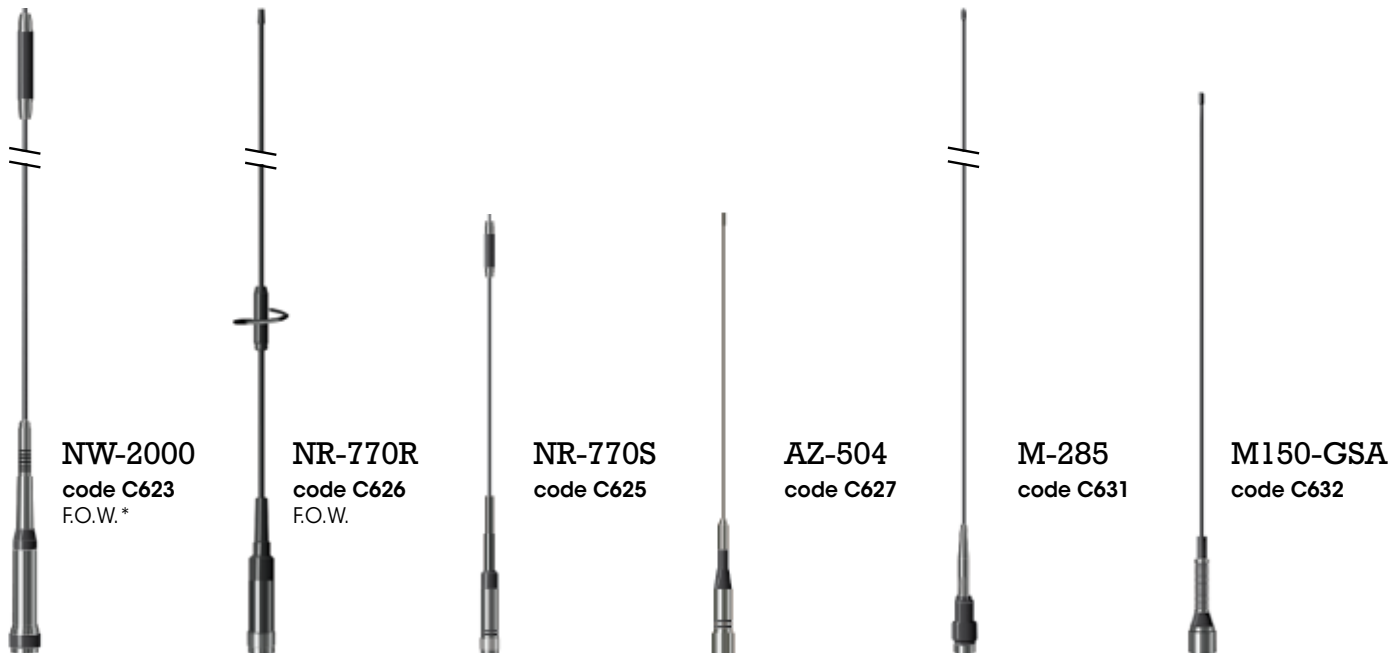
The **Shark 4** is equipped with a removable whip to permit total craft coverage during dry docking and pivot for easy adjustment in any position. Die cast body and fibre whip.

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



VHF-UHF car/truck antennas



NW-2000
code C623
F.O.W.*

NR-770R
code C626
F.O.W.

NR-770S
code C625

AZ-504
code C627

M-285
code C631

M150-GSA
code C632

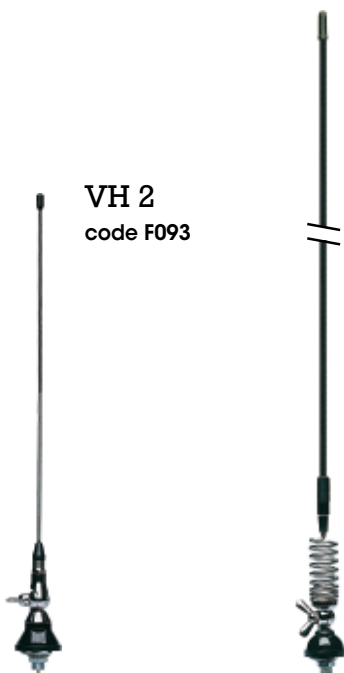
	NW-2000	NR-770R	NR-770S	AZ-504	M-285	M150-GSA
Frequency	144/430 MHz	144/430 MHz	144/430 MHz	144/430 MHz	138-174 MHz	138-174 MHz
type	1/2λ(144 MHz) 2x5/8λ(430 MHz) 200 W	1/2λ(144 MHz) 2x5/8λ(430 MHz) 200 W	1/4λ(144 MHz) 1/2λ(430 MHz) 100 W	1/4λ(144 MHz) 1/2λ(430 MHz) 50 W	5/8λ200 W	1/4λ200 W
Length (cm)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

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	-	-

CB Base antennas



Energy New 1/2
T241.02



Energy New 5/8
T242.02

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.

VHF/UHF Base antennas



X30
C614



X50
C615

F-22A
C619

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



6

VHF/UHF portable transceivers

100110
010101

CTCSS/DCS



Emergency



Vox



Chronometer



Flash light



FM RADIO

FM radio



Battery level



Scrambler



Roger beep



Scan



Key Lock



Hi/Low power



Programmable



Battery type



2 Pin Kenwood

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



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 alphanumeric 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

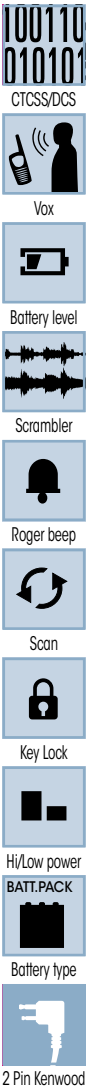
- > Frequency: CT 210 144-146 MHz (export version 136-174MHz)
- > CT 410 430-440 MHz (export version 400-470MHz)
- > Output power: CT 210 4W VHF
- > CT 410 4W UHF
- > 50 CTCSS tones and 105 DCS codes
- > Up to 128 memory channels
- > Channel spacing: 25KHz / 12.5KHz
- > Repeater tone 1750 Hz
- > Repeater 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



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	< 0.2μV	< 0.2μV
Dimensions (mm)	58x105x39	100x58x33
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



Rechargeable battery pack

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



Battery pack

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



Palm speaker/mike

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



Leather case

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



Desktop charger

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



CT200/400 CT210/410 antennas

ANT200 - C847
ANT400 - C848
ANT210 - C847.01
ANT410 - C848.01



Rechargeable battery pack

PB200/400 - C846
7.4Vcc Li-Ion 1200mA battery pack
compatible with Midland CT 200,
CT 400, CT 210, CT 410



CT180 antenna

Antenna CT 180 - C612





7

GPS locators, Video camera, Scanners



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.



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

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

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 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



80
CHANNELS

Channels



Police



Ham radio



PMR



PMR446/LPD



Remote control

200
CHANNELS

Channels



Air band



Marine band

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 α 0.8µV EMF
Audio output power	
Internal speaker	245 mW nom. su 8 Ohm
Stereo headphones earphone	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



Midland BT Ski



Stereo headset Intercom communication system

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



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, GSM 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

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.

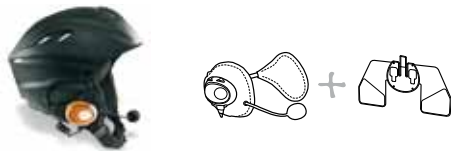
Midland BT Ski code C928



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



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 portfolio 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



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.



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



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 transmission 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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www.cte.it

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



Ministero delle Infrastrutture e dei Trasporti

Cte International ha ottenuto l'idoneità alla produzione in serie

ASSOCIATO



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.



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 excellent 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!

For 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.



Donnaventura® 2009 Grand American Raid

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

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 travelling: from the US Virgin Island to the exclusive Bahamas beaches, from Florida, Georgia, South and North Carolina, Virginia, Pennsylvania, New England, Massachusetts 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..

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 communication 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. Throughout this year and a half numerous meetings with the communities 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 paleontological (dinosaurs) and archaeological 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.





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

« One month communication provided by the Midland CT210 »



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

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.





07.30



10.30



14.30

 **Cte international**

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603935 - Printed in February 2010



17.30



21.30