

DAB / FM Radio & MP3 Player DR 306



USER MANUAL



Safety Instructions

1. Always connect the device with the originally provided power supply. Please do not use other similar objects. Meanwhile, the original power supply can only be used for this product. Please do not apply it to other electronic products.
2. Please do not expose the device to environments with the following conditions: rapid change of temperature, high temperature (e.g., direct sunlight), extremely low temperature, high voltage, electro-static interference, dust, and moisture; please also keep the device away from being splashed with water or dipped in any kind of liquid.
3. Please keep the device away from electronic items that can cause electromagnetic interference, e.g., television sets, personal computers, motors, motorized vehicles, scanners, video disc players, fax machines, hair dryers, and so on.
4. Keep the device away from strong impact or dropping.
5. Please do not clean the device with corrosive or volatile liquids. Only clean with a soft cloth or paper tissue if necessary.

6. Please do not use pens or sharp objects to press the enclosure of the device or the display panel to avoid damage or scratching.
7. If the device is out of order, please send it back to the retail store for service by authorized personnel. Please do not disassemble the device by yourself. Any disassembly of the device by unauthorized personnel will void the warranty.
8. The European regulations for use of FM transmitters (EN 301 357-2) are brandnew and not all countries allow already the use of this transmitter. At April 2007, when issuing this user manual, only Germany and Switzerland accepted the free use of the transmitter. We will publish updated country lists on our website <http://service.alan-germany.de> Please respect the national requirements and use the transmitter only where allowed.

Handheld DAB Radio User Manual

Albrecht DR 306

Safety Instructions	II
Features	1
Package Contents	1
Product Diagram	2
Function Keys	3
Getting Started	4
Power On Firstly or Reset	7
Notes.....	9
DAB Mode	10
Receive DAB programs	11

Change DAB channel	11
Store channel Preset	12
Vol+ and Vol- related functions	13
DAB Setting	14
DAB channel information and Clock.....	18
FM Transmitter	19
FM Mode.....	21
MP3 Mode	29
Listen to MP3 music	30
Function List	36
Specifications.....	40

Features

This product has a portable design with a compact, lightweight, and sleek appearance. It integrates digital audio broadcasting (DAB), FM radio and MP3/ WMA playback functions into a single device and provides the services of receiving digital audio broadcasting and FM radio.

Package Contents

- | | | |
|-----------------|---------------------|--------------|
| 1. Main device | 2. Stereo earphones | 3. USB cable |
| 4. Adapter plug | 5. User manual | |

Product Diagram




❶ Neck strap hook
❷ Power / Lock
❸ Headphone jack

❹ OLED display
❺ Function keys
❻ Charge indicator

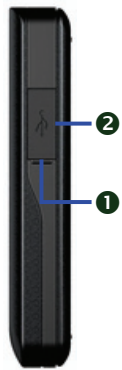
❼ Volume up / down
❽ SD/MMC card slot
❾ USB port/
Power supply jack

Function Keys

Function Panel	Keys	Function
	1. PRESET	Store preset channels; repeat type setting for MP3 playback; sound effect setting for MP3 playback
	2. MODE	Select modes (DAB/ FM/ MP3)
	3. MENU	Mode / Menu / Esc / Stop
	4. ◀▶	Change channels; select songs
	5. ENTER	Enter / Play / Pause

Note: The following sections will use the terminologies: “**Hold**” and “**Press**”.
“**Hold**” means a keystroke which lasts more than 2 seconds then release;
“**Press**” means a keystroke which lasts less than 2 seconds.


Getting Started



❶ Open the cover

❷ Power supply socket and USB port for PC connection and charging from PC via USB

1. Charge: plug the power supply into the electrical outlet in your house, and then plug the smaller end of the power supply into the power supply jack on the device, the built-in battery will be automatically charged.


2. When the device is unpacked for the first time, please charge the battery for at least 8 hours. Only after the green light of the charge indicator is on, the device can be operated normally. Afterwards, charge the battery until the green light of the charge indicator is on.
3. The charge indicator on the front cover shows the status of charging. Meantime  icon displays.


Slow charging under low battery condition	Charging	Charge Completed
Both Red and Green lights are on	Red light is on	Red light is off and Green light is on

4. Power on the device: Hold **Power** key, the display will be turned on while the charge indicator is off. Press **Power** key, the device will be locked. Equally, press **Power** key again to unlock the device.
5. During the first time usage or when there is no preset channel, the system will automatically scan available channels and store the channel information.

6. In DAB and FM modes, the earphones should always be plugged in for correctly receiving the signals because the earphone set is a related part of the antenna. For the playback of MP3 music, please prepare SD/MMC cards in advance and insert the card into the card slot.
7. Power off the device: Hold **Power** key.
8. Charging is also possible by USB cable from a computer or notebook- it may take a little bit longer compared to the supplied wall charger.

Power On Firstly or Reset

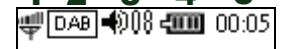

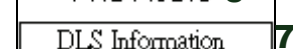
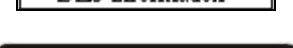


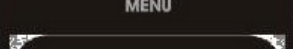

Display	Keystroke	Function						
 <p style="text-align: center;">Welcome!! DAB!!</p>	<p>Power On: Hold Power</p> <p>Restore the default settings: Setting → System default → Reset</p>	<p>After power on firstly or power on in the DAB mode after resetting your device, the Local Setting menu displays. Shown as the lower left figure.</p>						
<p>Local Setting</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="background-color: #cccccc;">UK</td> <td>Benelux</td> </tr> <tr> <td>Germany</td> <td>Canada</td> </tr> <tr> <td>Denmark</td> <td>Norway</td> </tr> </table>	UK	Benelux	Germany	Canada	Denmark	Norway	<p>➊ Press < / > to select required item</p> <p>➋ Press Enter to confirm</p>	<p>Select the proper area according to your location. The default is UK.</p>
UK	Benelux							
Germany	Canada							
Denmark	Norway							


Display	Keystroke	Function
 Scanning... 12C 1		During the first time usage, or when there is no preset channel in the memory, the system will automatically scan available channels.

Notes


1. Strongly recommend: please use the originally provided earphones to avoid bad signal receiving quality (the cable works as antenna, too!).
2. If the battery is charged through the USB cable connected to PC, it will take more time to complete charge.
3. If the charge is complete, the power supply can be unplugged for portable operations. Please recharge the battery regularly to maintain smooth operations.
4. By viewing the battery level indicator shown on the display, you can check the battery power usage.
5. The power consumption ranking is (from low to high): 1. MP3, 2. DAB, 3. FM.
6. For the next power-on, the previous operation Mode before the last power-off will be retained without the need of being reset again.
7. When the signal receiving quality is bad, the device will be humming with noise. With regard to the ordinary idea of receiving radio programs, we recommend you to change the channel setting or relocate the device at place with better signal receiving quality before using it.


DAB Mode



DAB Main Menu	Explanation of Symbols	Keystroke
1 2 3 4 5 	1. Signal receiving quality of the antenna	X
	2. Currently in DAB Mode	Press Mode
	3. The number next to the speaker symbol shows the volume level.	Press Vol+/Vol- on the side
	MUTE will be shown while the device is muted.	Hold Vol- on the side
	4. Battery level indicator	X
	5. Current time	X
	6. Channel name	◀ / ▶ to select channels
	7. Information of current channel	X

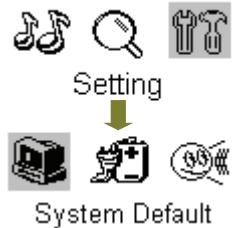
Display	Keystroke	Function
Receive DAB programs		
	Hold Power	After power-on, make sure the upper-left of the display shows DAB before you can receive DAB programs .
	Press Mode	For quick selection of DAB mode , receives DAB programs.
Change DAB channel		
	<ul style="list-style-type: none"> ❶ Press < / > ❷ Release the key to confirm 	Scan forward or backward to search DAB channels
	<ul style="list-style-type: none"> ❶ Hold Enter ❷ Press Enter to confirm 	Quick browse the channels by playing each channel for several seconds. Once your favorite channel is found, you can press Enter to continue listening to the channel.


Display	Keystroke	Function
Store channel Preset		
Setting Preset No. 01 empty 02 empty 03 empty 04 empty 05 empty	<ol style="list-style-type: none"> 1 Hold Preset 2 Press Vol+ or Vol- (on the side) to move up/down 3 Press Enter to confirm 	Add the current channel into the channel-preset list. Default is the first Empty item.
Preset List 01 CBS1 02 empty 03 empty 04 empty 05 empty	<ol style="list-style-type: none"> 1 Press Preset 2 Press Vol+ or Vol- to move up/down and select required channels 3 Press Enter to confirm 	Select channels from the channel Preset list.

Display	Keystroke	Function
Vol+ and Vol- related functions		
	Press Vol+ or Vol-	Adjust volume level
	Hold Vol-	Mute is set
	Press Vol+ or Vol-	Mute is cancelled

Display	Keystroke	Function
DAB Setting		
 Mode Select	<ol style="list-style-type: none"> ❶ Press Menu ❷ Press \leftarrow / \rightarrow to select required items ❸ Press Enter to confirm 	System setting main menu For accidental keystrokes or after setting is completed, you can press Menu to cancel the current operation.
<div style="border: 1px solid black; display: inline-block; padding: 2px;">DAB</div> FM MP3	<ol style="list-style-type: none"> ❶ Continue from above, press Enter to select Mode ❷ Press \leftarrow / \rightarrow to select required mode ❸ Press Enter to confirm 	Select DAB, FM or MP3 Mode

	<ul style="list-style-type: none"> ❶ Continue from above, press Enter to select Scan type ❷ Press \leftarrow / \rightarrow to move left or right and select required scan type ❸ Press Enter to confirm 	<p>Scan</p> <p>Full Scan, Local Scan and Manual Scan are provided</p> <ol style="list-style-type: none"> 1. If Full Scan or Local Scan is selected, the channel-preset list will be erased every time the scan operation performs. 2. Manual Scan: manually scan the channels, one page for each channel frequency.
	<ul style="list-style-type: none"> ❶ Select Local Scan ❷ Press \leftarrow / \rightarrow to move left or right and select required item ❸ Press Enter to confirm 	<p>Local Scan</p> <p>Select the proper area according to your location.</p>

Display	Keystroke	Function
 <p>The diagram shows a menu structure. At the top, there are three icons: a musical note, a magnifying glass, and a wrench. Below these icons is the word "Setting". A green arrow points down from "Setting" to a second row of three icons: a television, a power button with a plus sign, and a speech bubble with a crossed-out symbol. Below this second row is the text "System Default".</p>	<ol style="list-style-type: none"> ❶ Continue from above, press Enter to select Setting ❷ Press < / > to move left or right and select required item ❸ Press Enter to confirm 	<p>Setting</p> <ol style="list-style-type: none"> 1. System Default: restore the default settings. 2. Power Save: while activating the Power Save function; even if the display is dark, you can still listen to the channel programs. Press any key to turn on the display. 3. Language Type: English, French, Danish, German and Chinese. Default is English.

Display	Keystroke	Function
 <p>Language Type</p> <p>English Deutsch Français 中文 Danish</p>	<ol style="list-style-type: none"> ➊ Continue from above, press Enter to select Language Type ➋ Press < / > to move left or right and select required language type ➌ Press Enter to confirm 	<p>Select Language Type</p>

Display	Keystroke	Function
DAB channel information and Clock		
08:30:55	Press Enter	At the bottom in DAB main screen, the information of current channel is shown. Press the key repeatedly for the next pages. There are three pages of information. The last keystroke will bring an electronic clock into the display. Press any key to return to the main menu.

FM Transmitter



The FM transmitter function is supported in the **DAB and MP3 Mode** of DR306 model. You can transmit the signals of your favorite DAB channel programs or MP3/ WMA through FM radio channels for those nearby equipments with FM radio receivers to receive. For example: transmit to the car or home stereo.

The available frequency settings range is from 87.6 MHz to 107.9 MHz. According to latest European regulations. This regulation is new and there may be countries, where such transmitters are not yet allowed. Please check the local regulations in the country where you want to use the transmitter.

The default frequency setting is 87.6 MHz. The power is legally limited and the communication range may be some meters depending on the antenna of the receiver. Please try to find the best position for Your radio.




For the next-time frequency setting, the previous set frequency will be the starting value. For example, if the previous set frequency is 98.90 MHz, the starting value of the next frequency setting will be 98.90 MHz.

Please note: The FM transmitter does not work when the radio is in FM mode- this is technically impossible because it is within the same frequency band.


Display	Keystroke	Function
 <p>87.00MHz DAB [signal strength] [volume] 00:05  PRS AUDIO DLS Information</p>	<ol style="list-style-type: none"> ❶ Hold Mode ❷ Press < / > to select frequency ❸ Press Enter to confirm 	<p>After returning to the main menu, there will be a symbol showing FM transmitter is running.</p> <p>👁 To cancel FM transmitter operation, hold Mode.</p>

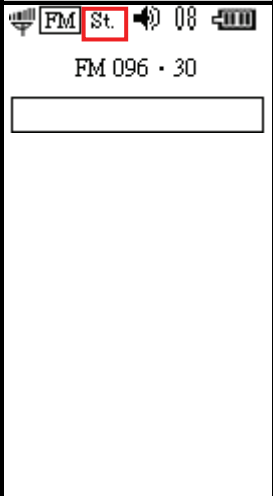
FM Mode



FM Main Menu	Explanation of Symbols	Keystroke
	1. Signal receiving quality of the antenna	X
	2. Currently in FM Mode	Press Mode Switch
	3. Stereo or Mono status	Hold Vol+
	4. The number next to the speaker symbol shows the volume level.	Press Vol+/Vol-
	MUTE will be shown while the device is muted.	Hold Vol-
	5. Battery level indicator	X
	6. Channel name	◀ / ▶ to select channels
7. Information of current channel	X	

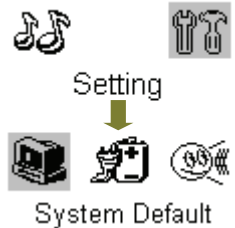
Display	Keystroke	Function
Receive FM radio programs		
 FM St.  08  FM 096 . 30 <input type="text"/>	Hold Power	After power-on, make sure the upper-left corner of the display shows FM so you can receive FM radio programs .
	Press Mode	For quick selection of FM mode , receives FM radio programs.
Change FM radio channel		
	<ul style="list-style-type: none"> ① Press < / > ② Release the key to confirm 	Scan forward or backward to manually search FM radio channels
	<ul style="list-style-type: none"> ① Hold < / > ② It will automatically stop searching once a channel is found. 	Quick scan channels


Display	Keystroke	Function
Quick browse channels		
	<ol style="list-style-type: none"> ❶ Hold Enter ❷ Press Enter to confirm 	Quick browse the channels by playing each channel for several seconds. Once your favorite channel is found, you can press Enter to continue listening to the channel.
Store channel Preset		
Setting Preset No. 01 empty 02 empty 03 empty 04 empty 05 empty	<ol style="list-style-type: none"> ❶ Hold Preset ❷ Press Vol+ or Vol- to move up/down ❸ Press Enter to confirm 	Add the current channel into the channel-preset list. Default is the first Empty item.

Display	Keystroke	Function
Preset List 01 107.75 02 empty 03 empty 04 empty 05 empty	① Press Preset ② Press Vol+ or Vol- to move up/down and select required channels. ③ Press Enter to confirm	Select channels from the channel Preset list .
Vol+ and Vol- related functions		
 FM 096 · 30 <input type="text"/>	Press Vol+ or Vol-	Adjust volume level
	Hold Vol-	Mute is set
	Press Vol+ or Vol-	Mute is cancelled

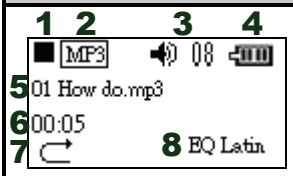
Display	Keystroke	Function
	Hold Vol+	<p>Select Stereo and Mono modes. St. or Mono appears during adjusting.</p> <ol style="list-style-type: none"> 1. If Stereo mode is selected, the system will decide to choose the suitable mode depending on the signal receiving quality. It is possible to see random hopping between Stereo mode and Mono mode. 2. But if Mono mode is selected, it will always remain in the Mono state.

Display	Keystroke	Function
FM Setting		
  Mode Select	<ol style="list-style-type: none"> ➊ Press Menu ➋ Press </> to move left or right and select required items ➌ Press Enter to confirm 	System setting main menu For accidental keystrokes or after setting is completed, you can press Menu to cancel the current operation.
<div style="border: 1px solid black; display: inline-block; padding: 2px;">DAB</div> FM MP3	<ol style="list-style-type: none"> ➊ Continue from above, press Enter to select Mode ➋ Press </> to move left or right and select required mode ➌ Press Enter to confirm 	Select DAB, FM or MP3 Mode

Display	Keystroke	Function
 <p>The diagram shows a menu structure. At the top, there are two icons: musical notes on the left and two wrenches on the right. Below these icons is the word "Setting". A green arrow points downwards from "Setting" to a row of three icons: a television, a power button with a plus sign, and a speech bubble with a crossed-out 'X'. Below this row of icons is the text "System Default".</p>	<ol style="list-style-type: none"> ➊ Continue from above, press Enter to select Setting ➋ Press ◀ / ▶ to move left or right and select required item ➌ Press Enter to confirm 	<p>Setting</p> <ol style="list-style-type: none"> 1. System Default: restore the default settings. 2. Power Save: while activating the Power Save function; even if the display is dark, you can still listen to the channel programs. Press any key to turn on the display. 3. Language Type: English, French, Danish, German and Chinese. Default is English.



Display	Keystroke	Function
 <p>Language Type</p> <p>English Deutsch Français 中文 Danish</p>	<ol style="list-style-type: none"> ① Continue from above, press Enter to select Language Type ② Press < / > to move left or right and select required language type ③ Press Enter to confirm 	<p>Select Language Type</p>












MP3 Mode






MP3 Main Menu	Explanation of Symbols	Keystroke
	1. ■ Stop (Current status) ▶ Play ⏸ Pause	Press Menu
	2. Currently in MP3 mode	Press Mode
	3. The number next to the speaker symbol shows the volume level.	Press Vol+/Vol-
	MUTE displays while the device is muted.	Hold Vol-
	4. Battery level indicator	X
	5. Name and information of the current song	Press </> to select songs
	6. Time elapsed for playback	X
	7. Repeat type for playback	Press Preset
	8. Current sound effect	Hold Preset





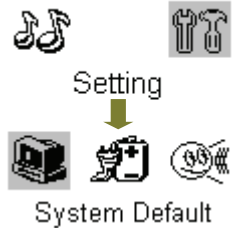
SD/MMC card slot:
open the cover; insert
the SD/MMC card


Display	Keystroke	Function
Listen to MP3 music		
 01 How do.mp3 00:05  EQ Latin	Hold Power	After power-on, make sure the upper-left of the display shows MP3 . Please prepare your own SD/MMC cards and insert the card into the card slot.
	Press Mode	For quick selection of MP3 mode , plays MP3 music.
	Press Enter	Play the music
	Press Enter	Pause the playback/continue the playback
	Press Menu	Stop the playback

Display	Keystroke	Function
Vol+ and Vol- related functions		
   01 How do.mp3 00:05  EQ Latin	Press Vol+ or Vol-	Adjust volume level
	Hold Vol-	Mute is set
	Press Vol+ or Vol-	Mute is cancelled
Select songs related functions		
	Press </>	Select songs
   01 How do.mp3 00:05  EQ Latin	Press Preset	Select repeat type  (normal)  (repeat all)  (repeat one) SHUF (Shuffle)

Display	Keystroke	Function
Sound Stage settings		
   01 How do.mp3 00:05   EQ Mode Flat Dance Rock Jazz Latin	<ul style="list-style-type: none"> ❶ Hold Preset ❷ Press < / > to move left or right and select an item ❸ Press Enter to confirm 	Provide FLAT, ROCK, LATIN, DANCE, and JAZZ

Display	Keystroke	Function
MP3 Setting		
  Mode Select	<ol style="list-style-type: none"> ➊ Press Menu ➋ Press < / > to move left or right and select required items ➌ Press Enter to confirm 	System setting main menu You have to STOP the music playback before pressing Menu to enter the system setting main menu. ☞ For accidental keystrokes or after setting is completed, you can press Menu to cancel the current operation.
<div style="border: 1px solid black; display: inline-block; padding: 2px;">DAB</div> FM MP3	<ol style="list-style-type: none"> ➍ Continue from above, press Enter to select Mode ➎ Press < / > to move left or right and select required mode ➏ Press Enter to confirm 	Select DAB, FM or MP3 Mode

Display	Keystroke	Function
 <p>The diagram shows a menu structure. At the top, there are two icons: musical notes and a wrench. Below them is the word "Setting". A green arrow points down from "Setting" to a row of three icons: a television, a power button with a plus sign, and a speech bubble with a crossed-out symbol. Below this row is the text "System Default".</p>	<ul style="list-style-type: none"> ❶ Continue from above, press Enter to select Setting ❷ Press </> to move left or right and select required item ❸ Press Enter to confirm 	<p>Setting</p> <ol style="list-style-type: none"> 1. System Default: restore the default settings. 2. Power Save: while activating the Power Save function; even if the display is dark, you can still listen to the channel programs. Press any key to turn on the display. 3. Language Type: English, French, Danish, German and Chinese. Default is English.

Display	Keystroke	Function
 <p>Language Type</p> <p>English Deutsch</p> <p>Français 中文</p> <p>Danish</p>	<ul style="list-style-type: none"> ❶ Continue from above, press Enter to select Language Type ❷ Press < / > to move left or right and select required language type ❸ Press Enter to confirm 	<p>Select Language Type</p>

Function List

Functions or Keys	DAB	FM	MP3
Power			
Hold Power : power on/off	✓	✓	✓
Press Power : Lock/Unlock	✓	✓	✓
Vol+ and Vol-			
Press Vol+ or Vol- : adjust volume	✓	✓	✓
Hold Vol- : set MUTE	✓	✓	✓
Press Vol+ or Vol- : cancel MUTE	✓	✓	✓
Hold Vol+	X	Select Stereo or Mono	X

Functions or Keys	DAB	FM	MP3
Preset			
Press Preset	Select preset channels	Select preset channels	Repeat type
Hold Preset	Add into channel preset list	Add into channel preset list	Set sound effect
Mode Switch			
Press Mode	Select modes	Select modes	Select modes
Hold Mode (only supported on D160)	FM transmitter	X	X
◀ and ▶			
Press ◀ / ▶	Manually scan channels	Manually scan channels	Select songs
Hold ◀ / ▶	X	Automatically scan channels	X

Functions or Keys	DAB	FM	MP3
Enter/Play/Pause			
Hold Enter	Quick browse channels	Quick browse channels	X
Press Enter	Channel information and clock	X	Play/Pause the music playback
Menu/Esc/Stop			
Menu	System setting main menu	System setting main menu	♦System setting main menu ♦Stop the music playback
Esc : accidental keystroke, Complete setting, Cancel current operation	✓	✓	✓

Functions or Keys	DAB	FM	MP3
Menu (System Setting Menu)			
Operating Modes: DAB, FM, MP3	✓	✓	✓
System Default	✓	✓	✓
Power Save	✓	✓	✓
Language Type	✓	✓	✓
Scan	✓	X	X

Specifications

Items	Specifications
Display	With backlight, resolution: 128 x 64 pixels (W x H)
Power Supply	Built-in Li-ion rechargeable battery, Power Supply, USB cable for PC connection
Headphone Jack	3.5 mm
Frequency Range	Band III: 174 MHz ~ 240 MHz L-Band: 1452 MHz ~ 1492 MHz (optional) FM: 87.5 MHz ~ 108 MHz
Additional Features	Support MP3/WMA playback, Support SD/MMC card up to 2 Gbyte capacity
Bandwidth	1.536 MHz
Encoding	MUSICAM
Modulation Type	COFDM
Storage Capacity	40 presets of radio stations
FM Transmitter	Stereo 87.6 to 107.9 MHz, 50 nW radiated power

Items	Specifications
Decoding Speed	384 kbps
Transfer Rate	640 kbps
Operating Temperature	0°C~45°C
Dimensions	95 x 60 x 17 mm (L x W x H)
Weight	103 g, including battery

Recycling rules:

It is illegal to dispose defective or no more used electronic items into the normal household trash. You will find collecting stations in all communities. Please contribute to the correct and environment-friendly recycling of electronic items and dispose Your equipment only to the public collecting stations.

**Warranty remarks:**

This product is covered by the European 2 years-warranty regulations. If Your product should have any malfunction, please contact the distributor where You bought this unit. The distributor will exchange or repair the product or will forward it to an authorized service partner.

Declaration of Conformity:

This product applies European harmonized standards and is conform to the essential requirement of the EU directives. Because the regulations for built in FM transmitters (as Annex 13 D SRD) are new, existing country restrictions may be changed in the near future.



As of April 2007, use of transmitters is only allowed in A, BG, CH, CY, CZ, D, DK, E, EST, FIN, GB, IS, L, P, PL and S. You can find our full-text declaration in the supplied German manual or download the latest version with latest country list from our server <http://service.alan-germany.de>

© Alan Electronics GmbH , 2007 -- www.alan-electronics.de

Daimlerstr. 1 k

D-63303 Dreieich / Germany

Phone (+49) 6103 9481-22

Fax (+49) 6103 9481-60

Service service@alan-electronics.de