ALBRECHT®

Multicom

Manual

English

ALBRECHT®

Table of Contents

1. General Information

1.1. Introduction
- Group mode version; Up to 5 people conference talks and other up to 94 people listening at the same time.
- Long distance coverage over 400m typically
- Crystal clear sound quality with super surround noise cancellation
- Longer than enough battery life, over 10 hours
- Outdoor purpose water resistant and hands free communication
- Convenient Micro USB charging solution compatible with most of mobile phone charging adapters to charge
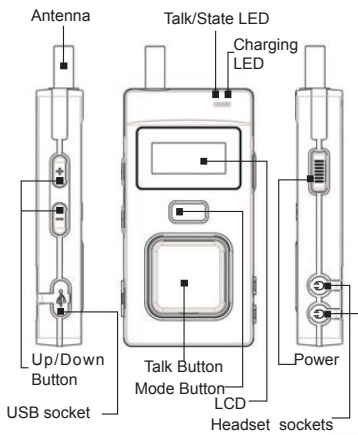
1.2. Accessories
- Behind the neck headset
- Neck Strap
- USB Charging Cable
- Arm Band Strap

1.3. Optional Accessories
- CC01: Carrying Case with Belt Clip (Order No.: 29964)
- EBB-01: Ear set Boom Microphone (Order No.: 29963)
- HSB-01: Headset Boom Microphone (Order No.: 29962)

2. Controls and Indicators

Antenna

Talk/State LED

Charging LED

Up/Down Button

USB socket

Talk Button

Mode Button

LCD

Power

Headset sockets

3. How to use

3.1. Power On/Off

Press and hold the „Power" button longer than 3 seconds to turn the device on.
The unit is starting with the last selected volume level
After that press and hold the „Power" switch again for 3 seconds to turn the device off.

3.2. Transmitting and Receiving
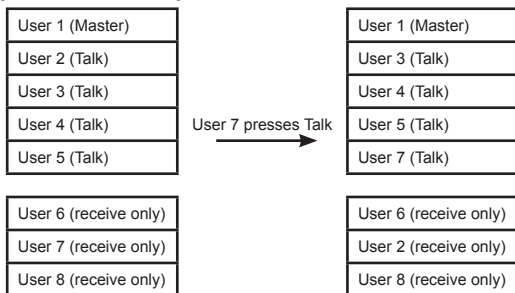
In a master radio with ID „00", transmitting and receiving are activated automatically
as soon as its ID is set with „00".
All other units in the group can activate and deactivate transmission by holding the
"Talk" button for 2 seconds. The state is signalled by the "Talk" symbol in the upper left
corner of the display. Reception is always active as long as the radio is switched on.

3.2.1. Talking List

5 units in a group can talk simultaneously while up to 94 units can listen.
As soon as 5 units are speaking the display shows "PTT1". If now one of the listeners is activating "Talk" the unit which has been talking the longest is removed from the talking list. This unit hears a signal tone.

User 1 (Master)
User 2 (Talk)
User 3 (Talk)
User 4 (Talk)
User 5 (Talk)

User 7 presses Talk →

User 1 (Master)
User 3 (Talk)
User 4 (Talk)
User 5 (Talk)
User 7 (Talk)

User 6 (receive only)
User 7 (receive only)
User 8 (receive only)

User 6 (receive only)
User 2 (receive only)
User 8 (receive only)

If now another user presses "Talk" user 3 would be removed from the list and so on.
In case user 7 only wanted to make a short announcement he should disable "Talk".
This way user 2 can get back to talking without removing somebody else from the talking list.
The list above is only an example and can be extended to 99 users total.
In some cases it makes sense to restrict some users to "Listen only". To enable this refer to chapter „3.1.5. Receive only (PTT ON/OFF)" auf Seite 18

3.3. Volume Up / Down

It gives you to adjust the hearing volume level with 6 steps as per you prefer.
Press „▲" button to control volume up and „▼" button for volume down after turn the device power on. It is available to adjust the volume level 0~6 from low to high.
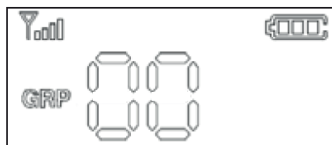

3.1. Menu

The menu settings can be viewed by short clicking the menu button repeatedly. To change the settings press the menu button for at least 3 seconds until GRP starts

to blink. Switching to the next menu option is done by pressing the menu button repeatedly. In order to change a setting the selected value can by changed by pressing „▲" or „▼". To confirm the settings wait for about 3 seconds for the device to leave the menu and save the settings or press the menu button for about 2 seconds.

3.1.1. Group selection
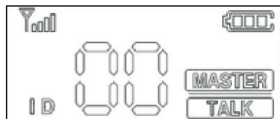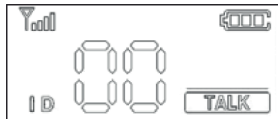Group numbers from 0-39 are available.
Every radio from a communication group needs to have the same group number.

3.1.2. ID selection
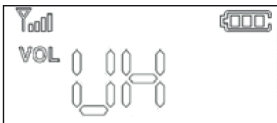In a group, every radio needs to have each different ID per radio from „00" to „99".
The ID „00" becomes a master radio in a group and every group needs to have a master radio with ID „00" per group without alternative. „MASTER" and „TALK" are displayed on the LCD as soon as the ID „00" is set.

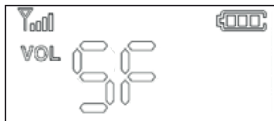### 3.1.3. Audio Output High / Low
The audio output setting is changing all volume levels of the unit to a higher respectively lower level. The options UL and UH are available.
When you are listening to the radio in very loud environments you can increase the volume by selecting UH. UL is the default setting.
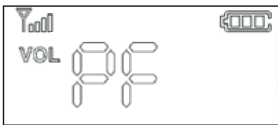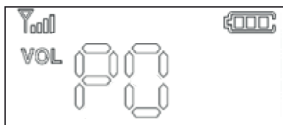
3.1.4. Side Tone On/ Off

With the side tone function enabled you can hear your own voice in the background. This is useful as a self monitoring system. To enable this function select SO. SF is the default setting.

3.1.5. Receive only (PTT ON/OFF)

In some groups it is useful to set some units to receive only. These units cannot switch to talk mode by pressing the talk button. To enable the receiving only mode select PF. The default setting is PO.

3.1.6. Microphone sensitivity level control

By changing the microphone sensitivity you can influence how loud other users will hear you. The highest sensitivity is C5 whereas C1 is the lowest. The default setting is C1.

Note: Not only the volume of your voice is changed but also every environment noise the microphone picks up. So it is recommended to set the sensitivity to a low setting in a noisy environment and to a higher setting in quiet surroundings.

4. Battery

The rechargeable Li-Ion battery 3.7V, 1,100mA is installed in the device.
Plug the USB charging cable into the USB port and recharge the battery.
The Charging LED in the right side top corner of the device is blinking during charging and turns off when the battery is fully charged.

5. Specification

Radio Frequency Type	ISM 2403MHz ~ 2480MHz
Type	Wireless Microphone/Receiver Unit
Radio Interface	ISM 2.4GHz: FSK with Freq. Hopping
Output Power	100mW
Voice Codec	16bit/16KHz
Tx Max Output Power	100mW
Rx Sensitivity	-95dBm
Voice Latency	< 35ms
Num. of Frequency Channel	78ch
Channel Spacing	2MHz
Data Rate	2Mbps
Freq. Bandwidth	2MHz
Battery	Li-Ion Battery @3.7V/ TBD 1100mA
Antenna	Internal Helical Antenna
Talk Time	10hr Typical
Power Consumption	Avg. 100mA
Distance Range(LOS)	100m in building 400m open place
Frequency response	50 Hz ~ 7 kHz
Maximum operation users	99 total, 5 talking, 94 listening

Dimension / Weight	98mm(H) x 49mm(W) x 17mm(D) / 88g
Audio In	-34dB @ 2.2KΩ
Audio Out	50 mW maximum @33Ω Mono
LED Display	Status LED, Talk LED, Charging LED
Low Battery Alert	Audible signal (Beep)
Waterproof	Water resistant

6. European 2 years warranty

The distributor, dealer or retail shop warrants to the original retail purchaser of this product that should this product or any part of it, under normal use and conditions, be proven defective in material or workmanship within 2 years from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), to the distributor, dealer or his authorized repair center.

The Company disclaims liability for communications range of this product. The warranty does not apply to any product or part there of which, in the opinion of the company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). The warranty does not apply to accessory parts or problems caused through not authorized or not recommended accessories like of the units like batteries, external power supplies and over voltage caused through external power supplies, light bulbs, broken antennas, broken swivel belt clips, broken or damaged acrylic glass windows and cabinet parts.

Please contact the dealer or person where you have purchased your radio. Alternatively , if you bought the radio in Germany, you can send the radio directly to our service partner (address on the last page)

7. Declaration of Conformity

$$\mathsf{C}\,\mathsf{E}$$

Distributor	Alan Electronics GmbH
Address:	Daimlerstraße 1k, 63303 Dreieich

Product Name:	Multicom
Model Number:	2,4 GHz ISM-Band Transceiver
Brand:	ALBRECHT

The above mentioned product complies to the below mentioned standards and fullfills the essential requirements of the EC directives 1999/5/EC, 2004/108/EC and 2006/95/EC. This radio may only be used in the EU and other states applying the R&TTE directive of the European community.

Standard	Version
EN 301 489-1	V1.9.2:2011
EN 301 489-17	V2.2.1:2012
EN 300 328	V1.8.1:2012
EN 60950-1	2006+A11:2009+A1:2010+A12:2011

Alan Electronics GmbH
15.04.2016

Dipl. Ing(FH) Norbert Dau

7.1. Where to find service hints and documentation

Our technical documentation is updated regularly. You can download the latest versions of user manuals, technical documents and also the dual language original declaration of conformity, as well as service hints or FAQ's any time from our server under

http://www.service.alan-electronics.de

If you should have a problem, please have a look to the service hints or frequently asked questions (FAQ) before you send your Telme back to the service center.

7.1. Disposal of defective electronic items

The European WEEE Directive does not any more allow to dispose any used electronic items via household trash bins. The local communities will provide containers for disposal of electronic waste. Please use these facilities, it will be your contribution to proper recycling of electronic material, and it is free of charge for you!

Service partner in Germany (only for radios sold in Germany):

> Alan Service
> c/o Transerv2000 Repair Service GmbH & Co. KG
> Servicecenter Frankfurt
> Robert-Bosch-Str. 35
> D-64625 Bensheim

Repairs and techn. inqurires:

Tel: (+49) (0) 6251 9856 0 55
e-mail: service.alan@transerv2000.de

In other countries please contact your local distributors in case of technical problems.

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