

# ***UHF-DualTalk***

***Public Mobile Radio +  
Low Power Device***

**Operation Manual**



**TEAM**  
electronic



**UHF-DualTalk**  
**PMR + LPD Radio**



- 1.) Antenna
- 2.) Jack SP./MIC
- 3.) LCD Screen
- 4.) Up & Down Key
- 5.) Confirmation & On/Off Key
- 6.) Speaker
- 7.) Mic: Microphone
- 8.) Volume Key
- 9.) PTT Key
- 10.) Call Tone Key

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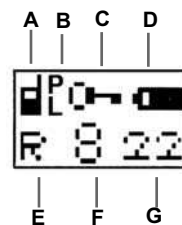
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
Specifications are subject to change without any prior notice or obligation.

English

### LC-Display

### Main Screen



- A**  Appears if normal PMR status is activated or  if Vox is switched on.
- B**  Indicates the selected frequency band, i.e. *PMR* or *LPD*.
- C**  Appears if key lock function is activated
- D**  Indicates the actual condition of the batteries.
- E**  Indicates receiving signals or **T** for transmitting mode.
- F**  Indicates the selected PMR channel 1 - 8.
- G**  Indicates the selected CTCSS Code 1 - 38.

## Setting up the TEAM UHF-DualTalk

English

### 1) Inserting the batteries

Turn the unit in that way that the rear panel lies in front of you. Rotate the belt clip a quarter turn counter-clockwise, so that the battery compartment lid is accessible now. The locking of the battery compartment lid is located at the bottom side of the unit. Push the locking aside and turn it down. Then you can take the lid off.

Now insert 4 alkaline or rechargeable AAA ( = Micro ) cells into the battery compartment according to the polarity signs inside. If you use rechargeable cells we recommend the NiMH type.

To close the battery compartment put the lid onto the compartment in that way that the two guide bolts at the top of the lid grip into the two corresponding guide holes at the top of the battery compartment. Then secure the lid by pushing the locking on it until it snaps in. Finally rotate the belt clip back into its original position

### 2) Switching On/Off

Depress the confirmation CONFIRM and On/Off key ① ( 5 ) for about 1 or 2 seconds to switch the transceiver on. A short receipt tone sounds from the loudspeaker ( 6 ) and the display illumination lights up in green. For a short period the graphic display ( 3 ) shows all points. Now the unit is either in PMR reception mode or in LPD reception mode. The display will show the main screen which indicates also the actual band. To switch the unit off depress the confirmation and On/Off key ① ( 5 ) again for about 1 or 2 seconds. The loudspeaker gives a short tone and all symbols disappear from the display. The last settings remain memorised, even if the batteries are removed.


### English

Note: The On/Off operation of the confirmation and On/Off key ①( 5 ) is disabled after the last confirmation. This factory setting has been made to avoid an unwanted On/Off switching of the unit. The disabling of the On/Off function will be cancelled after the key ( 5 ) is released once for a short time.

#### 3) LCD illumination

The LC display illumination is switched on at every pressure on any key, and it will be automatically shut off after 10 seconds.

#### 4) Key lock function

The key lock function is activated from the main screen. The unit can be in PMR mode or in LPD mode. Depress and hold the confirmation key ( 5 ). While you hold this key, press also the Up key ▲ ( 4 ). Then two short confirmation tones sound from the speaker ( 6 ), and the key symbol  ( position C ) appears in the display. Now all keys except the PTT key ( 9 ) are ignored. The speaker gives two short tones at every pressure on any locked key, except the confirmation key ( 5 ).

To stop the key lock function depress and hold the confirmation key ( 5 ). While you hold this key, press also the Up key s ( 4 ). Then one single short confirmation tone sounds from the speaker, and the key symbol disappears in the display. Now all keys are unlocked again.

#### 5) Automatic abortion of functions

If you select a function in the main screen, you have to insert all necessary entries within 5 seconds, otherwise the function will be aborted and not executed. Instead the

display returns to the main screen.


#### 6) Up ▲ and Down ▼ keys

If you depress briefly the keys Up ▲ and Down ▼ ( 4 ), the corresponding values ( volume, channel ) are changed for one step up or down. If you hold these keys for 1 or 2 seconds, the values change quickly into the corresponding direction. Some values run in a ring like system, others remain constantly after they have reached the highest or lowest value. In this case you will hear from the speaker a triple confirmation tone.

#### 7) Socket for external earphone-microphone

The socket ( 2 ) (  $\varnothing$  2.5 mm ) on the top side of the unit can be used to connect an external earphone-microphone, e.g. ORM-MS. While the socket is used the internal speaker ( 6 ) and the internal microphone Mic ( 7 ) are switched off.

#### 8) Battery indication

In case of completely charged batteries the battery symbol  ( position D ) is filled-in. At 4.9 V supply voltage one third of the filling disappears, at 4.6 V one other third, and at 4.1 V there is only the frame remaining. Now it is time to change or charge the batteries, otherwise errors of functions and displayed information may occur. The current consumption in transmit mode amounts to 270 mA ( PMR mode ), 110 mA ( LPD mode ), in reception mode with closed squelch 40 mA and in power save mode 15 mA.

**English**

**9) Power save function**

The power save mode is only active in reception mode. If the squelch is not opened by a signal for at least 20 seconds, and if there is no key entry during this time, the unit falls into the power down mode. In this mode the receive section is supplied only periodically for a short time, so that the current consumption goes down from 40 mA to 15 mA. On receiving of a signal or pressing any key the power save mode switches itself off again.

**10) Receipt tones**

If a signal is found on the actual channel in PMR or LPD operation the receipt tones are switched off. Otherwise every pressure of a key is indicated by a short tone.

**Operation of the TEAM UHF-DualTalk**

The TEAM UHF-DualTalk offers you the possibility to communicate in a band of your choice of two radio bands in the 70-cm-band ( UHF ). One band is the PMR band ( 446.00625 MHz – 446.09375 MHz ) and the other one the LPD band ( 433.075 MHz – 434.775 MHz ). The TX output power is automatically matched to the allowed maximum value of the actual selected band. This is 500 mW radiated TX output power in PMR operation and 10 mW radiated TX output power in LPD operation. The actual selected band is indicated by the letter on the upper left corner of the main screen. The “P” means PMR mode and the “L” means LPD mode.

If the unit receives an audible signal of a station the symbol **R** ( E ) appears in the lower left corner of the display.

### 1) Band and channel selection

To select another radio band depress out of the keys Down ▼ ( 4 ) 7 times or Up ▲ once. The display shows the writing CH. Then depress briefly the confirmation and On/Off key ( 5 ). Then the display shows the writings CH Band. On the left side of the writing "CH" you see an arrow, which can be moved with the help of the Up/Down keys ( 4 ) either to the left side of the writing "Band" or back to the left side of the writing "CH". For the activation of the band selection put the arrow to the left side of the writing "Band" and then depress the confirmation key ( 5 ). Then the display shows the writings Band PMR or Band LPD, depending on which one of the two bands the actual band is. With the help of the keys ( 4 ) you can toggle between both indications. Then depress the confirmation key ( 5 ) for the final selection of the indicated band. Now the display shows PMR 8 or LPD 8, depending on which one of the two bands you selected before. The "8" stands for the number of the actual channel of the actual band. By the help of the Up/Down keys ( 4 ) the channels 1 to 8 of the PMR band or the channels 1 to 69 of the LPD band can be changed in the wanted direction in a ring like system. Press the confirmation key ( 5 ) to select the desired channel, and the display will return to the main screen. Now the channel number appears at the position ( F ) and the frequency band at the position ( B ). The symbol "P" means PMR mode and the "L" means LPD mode. The channel number of the not selected band remains stored.

## English

### 2) Channel selection within the actual band

To select another channel within the actual band depress out of the keys ( 4 ) Down t 7 times or Up s once. The display shows the writing **CH** . Then depress briefly the confirmation and On/Off key ( 1 ) ( 5 ). Then the display shows the writings **CH** **Band** . On the left side of the writing "CH" you see an arrow, which can be moved with the help of the Up/Down keys ( 4 ) either to the left side of the writing "Band" or back to the left side of the writing "CH". For the activation of the channel selection put the arrow on the left side of the writing "CH" and then depress the confirmation key ( 5 ). Then the display shows the writings **PMR** **8** or **LPD** **8** , depending on which one of the two bands the actual band is. The "8" stands for the number of the actual channel of the actual band. By the help of the Up/Down keys ( 4 ) the channels 1 to 8 of the PMR band or the channels 1 to 69 of the LPD band can be changed in the wanted direction in a ring like system. Press the confirmation key ( 5 ) to select the desired channel, and the display will return to the main screen.

The channel number appears at the position ( F ). The actual frequency band ( Position B ) and the channel number of the not selected band remain unchanged.

### 3) Activating of the CTCSS function and selection of the CTCSS tone

The CTCSS function serves to suppress signals of unwanted stations on the actual channel. If this function is active the unit works as follows:



The other station is only audible in the speaker, if it adds to its modulation signal a certain tone in the frequency range from 67 Hz to 250 Hz with low level. In transmit mode the unit adds itself to its modulation signal a tone of the same frequency so that the

muting device of the counter station can open also. If the function is inactive you can hear every station on the channel, and in transmit mode no tone is added to the modulation signal.


To select the CTCSS function depress out of the keys ( 4 ) Down ▼ 6 times or Up ▲ 2 times. The display shows **Code**. Then depress briefly the confirmation and On/Off key ( 5 ). Then the display shows the writing **Code**  
**22**, where the "22" stands for the actual CTCSS tone code. By the help of the Up/Down keys ( 4 ) the code numbers 0 to 38 can be changed in the wanted direction in a ring like system. Press the confirmation key ( 5 ) to select the desired code number, and the display will return to the main screen. If the code number is different from zero, it will be visible in the main screen at the position ( G ). That means that the CTCSS function has been activated with the CTCSS tone corresponding to the code number.

If the selected code is "00", there will be no code number visible in the lower right corner ( position G ) of the main screen. That means that the CTCSS function is switched off now. In the table in the annex you find the corresponding CTCSS frequencies to the code numbers.



#### 4) Volume adjustment

To adjust the volume level of the reproduction of incoming signals depress the volume key  ( 8 ). The display shows a loudspeaker symbol with one or several points or bars . The number of those points or bars shows the actual setting of the volume adjustment. By the help of the Up/Down keys ( 4 ) this setting can be changed and watched in the display. The volume level of the tones depends of the

### English

actual setting of the volume adjustment. At the highest or lowest value you hear a triple confirmation tone. Press the confirmation key ( 5 ) or the volume key  ( 8 ) to select the desired setting of the volume adjustment, and the display will return to the main screen.


#### 5) Squelch adjustment


To adjust the threshold level of the noise suppression ( squelch ) in reception mode depress out of the keys ( 4 ) Down ▼ 5 times or Up ▲ 3 times. The display shows the writing . Then depress briefly the confirmation key ( 5 ). Then the display shows the writing  with one or several points or bars. The number of those points or bars shows the actual setting of the squelch sensitivity level. The more points or bars appear, the lower the level can be for opening the squelch. By the help of the Up/Down keys ( 4 ) this setting can be changed and watched in the display. At the highest or lowest value you hear a triple confirmation tone. Press the confirmation key ( 5 ) to select the desired setting of the squelch sensitivity level, and the display will return to the main screen.

#### 6) Activating and setting of the VOX function




If the VOX function ( = voice activated transmission ) is active, the transmitter is switched on if the sound level at the microphone Mic ( 7 ) exceeds a certain intensity. After a certain time, within which the sound level at the microphone remains below this intensity value, the radio switches automatically back to receive mode. During reception of an incoming signal the VOX function is inhibited. Thus you can communicate without the necessity of having a hand at the unit. To activate the VOX function

English

depress out of the keys ( 4 ) Down ▼ 4 times or Up ▲ 4 times. The display shows the writing **VOX**. Then depress briefly the confirmation key ( 5 ). Then the display shows **on**. Below the writing you see a microphone symbol. On the left side of the writing "on" you see an arrow, which can be moved with the help of the Up/Down keys ( 4 ) either to the left side of the microphone symbol or back to the left side of the writing "on". For the activation of the VOX function put the arrow on the left side of the writing "on" and then depress the confirmation key ( 5 ). After this entry the display returns to the main screen. On the position of the transceiver symbol ( A ) you see the microphone symbol  now. This indicates that the VOX function is active now. If you talk loud enough into the microphone Mic ( 7 ), a short tone comes from the speaker and in the display you see at the position ( E ) the symbol **T**. 1 to 2 seconds after you have finished your message the unit switches back to receive mode, which is indicated by two short tones and the disappearance of the symbol **T**.



To deactivate the VOX function depress out of the keys ( 4 ) Down ▼ 4 times or Up ▲ 4 times. The display shows the writing **VOX**. Then depress briefly the confirmation key ( 5 ). Then the display shows **off**. On the left side of the writing "off" you see an arrow, which can be moved with the help of the Up/Down keys ( 4 ) either to the left side of the microphone symbol or back to the left side of the writing "off". For the deactivation of the VOX function put the arrow on the left side of the writing "off" and then depress the confirmation key ( 5 ). After this entry the display returns to the main screen. On the position of the microphone symbol ( A ) you see the transceiver symbol  again. This indicates that the VOX function is no longer active. The

### English

adjustment of the threshold of the sound level at which the transmitter starts to work, can be executed at inactive or active VOX function. To this end depress out of the keys ( 4 ) Down ▼ 4 times or Up ▲ 4 times. The display shows the writing **VOX**. Then depress briefly the confirmation key ( 5 ). Then the display shows  or . Now, put the arrow on the left side of the microphone symbol below and then depress the confirmation key ( 5 ). Then the display shows , the microphone symbol with one or several points or bars. The number of those points or bars shows the actual setting of the VOX sound level threshold. The more points or bars appear, the louder you have to speak to start the transmission. By the help of the Up/Down keys ( 4 ) this setting can be changed and watched in the display.



At the highest or lowest value you hear a triple confirmation tone. Press the confirmation key ( 5 ) to select the desired setting of the sound level threshold, and the display will return to the main screen.

#### 7) Selection of the call melody

To select a call melody depress out of the keys ( 4 ) Down ▼ 3 times or Up ▲ 5 times. The display shows the writing **Tone**. Then depress briefly the confirmation and On/Off key ( 5 ). Then the display shows  , a music note symbol and a digit. The digit stands for the number of the actual call melody. By the help of the Up/Down keys ( 4 ) the call melody numbers can be changed from 1 to 8 in the wanted direction in a ring like system. If you don't press any key for 1 or 2 seconds after a selection the call melody will be played in full length in the speaker. Then the display will return to the main screen. By pressing the confirmation key ( 5 ) you select

the desired call melody at once, and the display will return to the main screen earlier.



#### 8) Monitor function

The noise suppression ( squelch ) in reception mode is designed to cut off the disturbing noise, which the receiver produces on free channels, and to let pass only the speech signals of a counter station to the speaker. In case of very weak signals it may occur, that the squelch remains closed. If you want to make also these signals audible, you can inhibit the squelch ( monitor function ). To this end depress out of the keys ( 4 ) Down ▼ 2 times or Up ▲ 6 times. The display shows the writing . Then depress briefly the confirmation key ( 5 ). Now the squelch is always open and you can hear on free channels a noise. In the display you can see , where the "8" stands for the actual channel number in the actual band. This is the main screen for monitor operation. In this condition you can only adjust the volume level setting ( 4 ) or the squelch sensitivity setting ( 5 ). To adjust the volume level of the reproduction of incoming signals depress the volume key ( 8 ). See Para 4 for the further instructions. To adjust the squelch sensitivity setting for incoming signals depress out of the keys ( 4 ) Down ▼ once or Up ▲ once. See Para 5 for the further instructions. To reactivate the squelch, depress in the main screen for monitor operation the confirmation key ( 5 ), and the display will return to the normal main screen.


#### 9) Activating of the channel scan function

In channel scan mode the unit looks for occupied channels on which the squelch opens. At the same time it examines whether the demodulated reception signal

### English

contains also a CTCSS tone. If the unit has found one, it identifies its corresponding code number and shows it in the display at the position ( G ). To activate the scan function depress out of the keys ( 4 ) Down ▼ once or Up ▲ 7 times. The display shows the writing . Then depress briefly the confirmation key ( 5 ). Then the display shows . On the left side of the writing "UP" you see an arrow, which can be moved with the help of the Up/Down keys ( 4 ) either to the left side of the writing "DOWN" or back to the left side of the writing "UP". For the final activation of the channel scan function put the arrow to one of both writings and then depress the confirmation key ( 5 ). The display returns to the main screen, but without a CTCSS code number. According to the chosen direction the channel scan starts stepping upwards or downwards. The unit stops on every occupied channel, where the squelch opens, for 10 seconds. If there is in the demodulated signal also a CTCSS tone, it will show also the corresponding CTCSS code number. 10 seconds later or after the signal has dropped below the squelch threshold the channel scan function continues searching. By pressing the confirmation key ( 5 ) the channel scan function is terminated and the unit remains on the actual channel. If the unit has been on an occupied channel where a CTCSS coded station has made a transmission, the display will take over this CTCSS code. If the station had no CTCSS code or the channel was free, the unit keeps the CTCSS setting which has been active before starting the channel scan.

#### 10) Transmitting

For speech transmission depress and hold the transmit key PTT ( 9 ) on the left side of the unit. In the display appears the symbol . If the channel scan function

**English**

had been active, it would be terminated now. The sensitivity of the built-in microphone Mic ( 7 ) has been set to give good results speaking normally at a distance of 2 inches. Speaking too loudly will cause distortions and make the signal difficult to understand. On completion of the transmission release the transmit key PTT ( 9 ) and the unit will revert to receiving mode and in the display the **T** will disappear. For call melody transmission on the actual channel depress the call tone key CALL ( 10 ) above the PTT key. The unit transmits the actual call melody in full length, no matter how long you press the call tone key CALL ( 10 ). It is only audible at the counter station. In the display appears **T** ( position E ). Speech transmission is impossible now. After finishing transmission the unit switches back to receiving mode with a short melody in the speaker ( 6 ) and in the display **T** will disappear.

**Safety**

The unit radiates in transmit mode RF energy. To reduce the exposure at the lowest possible value, and to benefit as much as possible of the features of the unit, you should take into account the following advice:

In transmission mode keep the unit in a vertical position at a distance of 2 to 3 inches from your face. Keep the antenna ( 1 ) at a distance of at least 1 inch away from your head and your body. If you carry the unit on your body and if the unit is in transmit mode, make sure that the antenna ( 1 ) is kept at a distance of at least 1 inch away from your body.

## English

### Service

The condition of the batteries must be tested from time to time. Worn out batteries must be removed from the unit immediately. They can leak and damage the device. The batteries should always be replaced as a complete set. Worn out batteries do not belong in the waste bin, but must be returned to a suitable collecting depot or to a special dealer, for the sake of the environment. There are no user adjustable or user serviceable parts inside the radio. The casing must not be opened. Independent repairs or adjustments must not be carried out, since each modification or unauthorised intervention will immediately cancel all and any guarantee or repair claims, they are also likely to result in nonconformity to ETS regulations which will render the set to become illegal. In the event a defect becoming apparent, contact a properly equipped and authorised TEAM dealer or TEAM directly.

### Conformity

The transceiver TEAM UHF-DualTalk complies with the rules of the European Directive R&TTE and meets the European Telecommunication Standards ETSI EN 301 489-5, ETSI EN 300 296-1/-2, ETSI EN 300 220-3/-1 and EN 60065.

This product is meant for distribution and sale in the following European countries:

Austria, France, Germany, Greece, Netherlands, Sweden, Great Britain.

**Kanal-Frequenz (MHz)-Liste • Channel-frequency (MHz)-list • Liste canaux / fré-  
quences (MHz) • Lista canali / frequenze (MHz) • lista canales frecuencias (MHz)**

	Freq. MHz	Freq. MHz	Freq. MHz	Freq. MHz
1	433,075	19 433,525	37 433,975	55 434,425
2	433,100	20 433,550	38 434,000	56 434,450
3	433,125	21 433,575	39 434,025	57 434,475
4	433,150	22 433,600	40 434,050	58 434,500
5	433,175	23 433,625	41 434,075	59 434,525
6	433,200	24 433,650	42 434,100	60 434,550
7	433,225	25 433,675	43 434,125	61 434,575
8	433,250	26 433,700	44 434,150	62 434,600
9	433,275	27 433,725	45 434,175	63 434,625
10	433,300	28 433,750	46 434,200	64 434,650
11	433,325	29 433,775	47 434,225	65 434,675
12	433,350	30 433,800	48 434,250	66 434,700
13	433,375	31 433,825	49 434,275	67 434,725
14	433,400	32 433,850	50 434,300	68 434,750
15	433,425	33 433,875	51 434,325	69 434,775
16	433,450	34 433,900	52 434,350	
17	433,475	35 433,925	53 434,375	
18	433,500	36 433,950	54 434,400	

Kanalnummer / Channel Nr. Numéro du canal / Numero del canale / Numero del canal		CTCSS-Code Freq. Hz	CTCSS-Code Freq. Hz
	Freq. MHz		
1	446.00625 MHz	1	67.0
2	446.01875 MHz	2	71.9
3	446.03125 MHz	3	74.4
4	446.04375 MHz	4	77.0
5	446.05625 MHz	5	79.7
6	446.06875 MHz	6	82.5
7	446.08125 MHz	7	85.4
8	446.09375 MHz	8	88.5
		9	91.5
		10	94.8
		11	97.4
		12	100.0
		13	103.5
		14	107.2
		15	110.9
		16	114.8
		17	118.8
		18	123.0
		19	127.3
		20	131.8
		21	136.5
		22	141.3
		23	146.2
		24	151.4
		25	156.7
		26	162.2
		27	167.9
		28	173.8
		29	179.9
		30	186.2
		31	192.8
		32	203.5
		33	210.7
		34	218.1
		35	225.7
		36	233.6
		37	241.8
		38	250.3

## Additional accessories

**SLG UHF-DualTalk**  
charger with adaptor  
Art. - Nr. PR2030



**NMH 700 mAh**  
rechargeable batteries  
Art. - Nr. AK7005



**ORM-MS**

boom microphone with earphone and earpiece  
Art. - Nr. PR2014



**OEM-MS**

headset/microphone with clip  
Art. - Nr. PR2019



Bitte nur geeignete Original TEAM Zubehörteile verwenden.  
Please use original TEAM accessories only.  
N'utilisez que des accessoires TEAM originaux, s'il vous plaît!  
Solamente utilizzare degli accessori TEAM originali, per favore!

**TEAM UHF-DualTalk**

for sale and use in :

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