

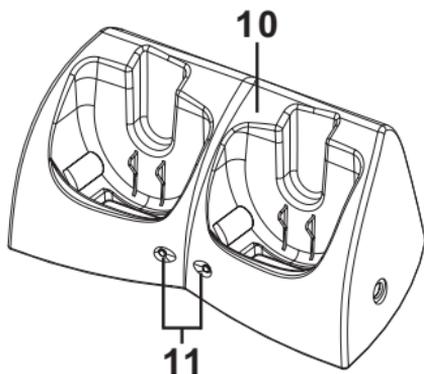
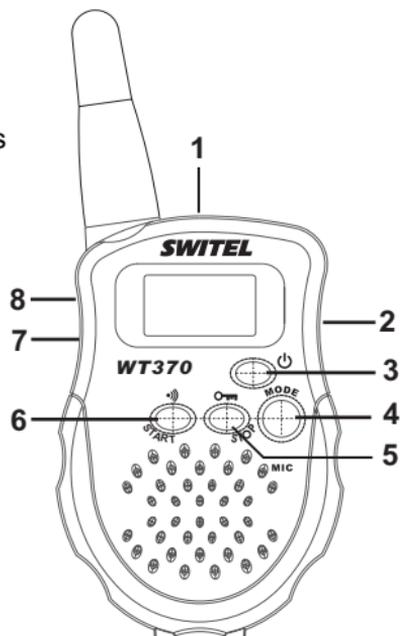
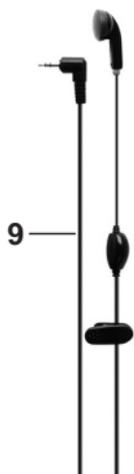
- Contents -

1	Operational Elements	46
2	Commissioning	47
2.1	Check contents of pack	47
2.2	Fitting the battery packs	47
2.3	Fitting or remove the belt clip	48
2.4	Connecting the charging station	48
2.5	Charging the radios	48
2.6	Wall Mounting	48
3	Operation	49
3.1	Display indicators	49
3.2	Switching the radios on and off	50
3.3	Volume control	50
3.4	Channel selection	50
3.4.1	Changing the call code (CTCSS)	50
3.5	Calling another subscriber	51
3.6	Switching on VOX mode	52
3.7	Keypad lock	52
3.8	Range of the radios	53
3.9	Increasing the maximum range	53
3.10	Automatic energy saving mode	54
3.11	Channel search (scan mode)	54
3.12	Selecting a call tone	55
3.13	Switching key tones on and off	55
3.14	Using the radio as a stopwatch	56
3.15	Connecting the headset	56
4	Important information	58
4.1	Technical data	58
4.2	Care instructions	58

- Operational elements -

1 Operational Elements

1. Microphone and headphone connection
2. On/Off button
3. Volume louder/softer select buttons
4. **Mode** button
5. **Keylock** button
6. **Call** button
7. **Auto-Squelch** button
8. **Talk** button



9. Headset
10. Double charging station
11. LED charging indicator

- Commissioning -

2 Commissioning

2.1 Check contents of pack

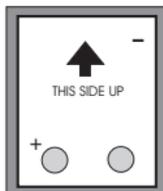
The following items are supplied

two radios with belt clip	one charging station
two battery packs	one mains power supply
one instruction manual	two headsets

2.2 Fitting the battery packs

Your radio units are supplied with two rechargeable battery packs, which must be fitted before using the equipment.

1. To release the belt clip, pull gently on the upper tab and slide the belt clip upwards (see 2.3).
2. Then open the compartment by pulling the cover upwards by the catch.
3. Now insert the battery pack taking care to ensure that the polarity is correct. The wrong polarity can damage both the battery pack and the unit.
4. Close the battery compartment and re-fix the belt clip (see 2.3).



Note: When the battery pack is weak and needs to be recharged, the battery symbol  will flash in the display. When the battery is fully charged, the  symbol will appear.

Do not throw batteries into the fire or immerse in water. Do not dispose of old or defective batteries with the normal household waste.

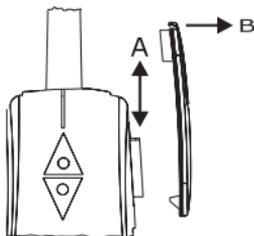
Note: In place of the battery pack you can also use three **not rechargeable** 1.5V AAA alkaline batteries. Please use only the best quality. Take care to ensure that the polarity is correct when inserting.

- Commissioning -

2.3 Fitting or remove the belt clip

To remove the belt clip, pull gently on the upper tab (B) and slide the belt clip upwards.

Slide the belt clip from above onto the guide (A) until it audibly snaps into place.



2.4 Connecting the charging station

Insert the plug of the power supply into the socket on the charging station and plug the power supply into a properly installed 230 V mains socket. For safety reasons, use only the plug-in mains power supply provided.

2.5 Charging the radios

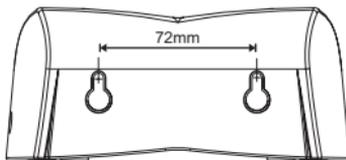
The rechargeable batteries for the two radios have a stand-by time of max. 66 hours at room temperature and a maximum period of use of up to 22 hours. The current battery capacity is shown in the display.

To charge, place the radios in the charging station for ca. 12 hours.

 full	 half full	 batteries are discharged.
--	---	---

2.6 Wall Mounting

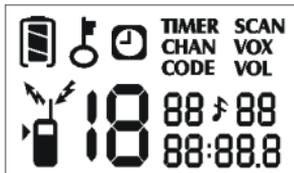
The charging station is also suitable for wall mounting. Use two screws for fixing it to the wall. Drill two holes 72 mm apart and leave the screws protruding 4 mm from the wall. Now place the charging station over the screws and push down slightly.



- Operation -

3 Operation

3.1 Display indicators



VOL 88	Indication of the set volume.
8	Indication of the channel set from 1 to 8
	Indication of battery capacity.
	Keypad lock is activated
	Transmit/receive appears when transmitting appears when receiving. The symbol also appears when someone is transmitting on the same channel but is using a different CTCSS code. These signals can not then be heard.
	This symbol appears when the battery saving mode is switched on.
CODE 88	Display of the CTCSS code from 01 to 38. If – is displayed, the CTCSS function is switched off.
	This symbol appears when the button tones are switched off.
TIMER	The stopwatch function is switched on.
SCAN	The scan function is switched on.
VOX	The VOX mode is switched on.

- Operation -

3.2 Switching the radios on and off

To switch on the radio, hold the On/Off button  pressed until a signal tone sounds. The display will be illuminated for some seconds and all the symbols will be shown in the display. After this the display will show the currently selected channel.

To switch the radio off, hold the On/Off button  pressed once more until a signal tone sounds.

3.3 Volume control

The volume of the built-in loudspeaker can be displayed in 16 volume steps using the  and  buttons on the right. The volume set will be shown in the display.

3.4 Channel selection

The radios have 8 different transmission channels, which are released by the European Committee for Radio Communications as " Private Mobile Radio" channels, known as PMR for short.



In order to be able to speak between two radios, both units must be set to the same channel.

1. Press the **MODE** button once. The **CHAN** indicator will flash in the display.
2. Select the required channel using the  and  buttons.
3. Confirm the selection with the talk button on the left-hand side.

- Operation -

3.4.1 Changing the call code (CTCSS)

Normally, all calls on the selected channel are sent to all radios that are in receiving range. You may therefore also hear calls that are not intended for you when other people are using radios on the same channel in the vicinity. In order to prevent this, it is possible to define a call code. Check between yourselves which code has been selected.

1. Press the **MODE** button twice. The **CODE** indicator and the current call code will flash in the display.
2. A new code between 01 and 38 can now be selected using the ▲ and ▼ buttons. If the code -- is selected, all calls will be made on the selected channel.
3. Confirm the selection with the talk button on the left-hand side.



Radio 1

3⁰⁵

Radio 2

3⁰⁵

Note: The selected channel and the call code must correspond for you to be able to talk to one another.

3.5 Calling another subscriber

When you want to talk to other subscribers, proceed as follows: The two radios must be switched on and set to the same channel and to the same call code.

Press the small call button  once. A ringing tone will sound on the called unit for two seconds. Now wait until the person called answers. To speak yourself, press the talk button. Hold the unit about 5 cm from your mouth and speak in a normal voice. When you have finished, release the talk button. The person you are speaking to will hear a brief noise when you release the call button. This will indicate to the other party that you have finished speaking and are waiting for a reply.

- Operation -

However, in spite of this, we recommend that you finish your message with the word "End" so that the person you are calling knows exactly when he can reply.

The volume of the incoming call signal depends on your volume setting. 16 volume levels can be set using the ▲ and ▼ buttons.



Note: While you are holding the talk button, you will not be able to hear any incoming calls. As is usual with radio units, only one of the two participants in the call can speak at any one time.

Therefore, always wait until you hear the signal tone before pressing the talk button again.

While you are pressing the **TALK** button, the  symbol will appear in the display. When you receive a call, the  symbol will appear in the display.

3.6 Switching on VOX mode

In VOX mode, the radio will automatically start to transmit as soon as your voice or another noise is detected. It is not necessary to press the talk button. Transmission will always take place for 2 seconds, even when you speak for less than 2 seconds.

Three sensitivity levels from 1 to 3 can be set for VOX mode. With setting 1, even softer noises will be transmitted whereas, with setting 3, only loud signals will be sent. In setting 0, VOX mode is switched off (standard setting).

1. Press the **MODE** button five times. The **VOX** indicator will flash in the display.
2. Select the required sensitivity using the ▲ and ▼ buttons. In setting 0, VOX mode is switched off.
3. Confirm the selection with the **TALK** button on the left-hand side.

3.7 Keypad lock

In order to prevent settings from being changed unintentionally, you can switch on the keypad lock. To do this, press and hold the  button for

one second. The symbol  will appear in the display and the keys will be locked. It will still be possible to use the talk button. While the talk button is being pressed, a call tone can be transmitted using the  button.

To turn the keypad lock off once more, press and hold the  button again for one second. The symbol will disappear and the keypad lock will be deactivated.

Each time the radio is switched on afresh, the keypad lock is automatically switched off again.

3.8 Range of the radios

The radios have a range of up to 3-5 km. This maximum range can be reduced under certain circumstances. You can achieve maximum range in open, flat conditions. If there are buildings or trees in the signal path then the range will be reduced. The range is even further reduced in hilly terrain.

3.9 Increasing the maximum range

The radios are equipped with a so-called Auto-Squelch system, by means of which weak transmissions and undesirable noises are automatically filtered out during use. This Auto-Squelch system can be temporarily switched off in order to increase the range.

Press and hold the **AUTO-SQUELCH** button on the left-hand side. The automatic suppression will be switched off and it will now be possible for even very weak signals to be received. If the **AUTO-SQUELCH** button is kept pressed until a signal tone sounds, the Auto-Squelch will be switched off completely. To switch the Auto-Squelch on again, press the **AUTO-SQUELCH** button once more.

3.10 Automatic energy saving mode

The radios are designed with a power saving mode. If no transmissions take place within a certain time, the unit switches itself off automatically. The time can be set to 1, 2 or 3 hours. In setting 0, energy saving mode is switched off.

1. Press the MODE button seven times. The  indicator will flash in the display.
2. Select the required sensitivity using the  and  buttons. Energy saving mode is switched off with the setting 0.
3. Confirm the selection with the talk button on the left-hand side.

The  indicator appears in the display when the energy saving mode is switched on.

- Operation -

3.11 Channel search (scan mode)

When channel search (scan) is switched on, all 8 channels are continuously polled until the radio finds a channel that is being used for speech. Even if other radios are speaking on one of the 38 call codes, the radio is found channel. If the call code should not agree with your settings, you must adjust these by hand.

1. Press the **MODE** button three times. The **SCAN** indicator will flash in the display.
2. Channel search is switched on with the ▲ button and switched off with the ▼ button.
3. Confirm the selection with the talk button on the left-hand side.
4. All channels will now be scanned one after the other. As soon as a channel is found that is currently in use, channel search will be interrupted for 2 seconds. Press the TALK button during this time if you want to keep the channel that has been found and exit the channel search. Channel search can be switched off at any time with the **MODE** button.

3.12 Selecting a call tone

You can transmit a call tone to the other radios using the call button  (see 3.5) when you want to begin a call. 10 different melodies are available.

1. Press the **MODE** button four times. The **CA TONE** indicator will flash in the display.
2. Select the required call tone between 1 and 10 using the ▲ and ▼ buttons.
3. Confirm the selection with the talk button on the left-hand side.

- Operation -

3.13 Switching key tones on and off

Normally, a confirmation tone will sound each time a button on the radio is pressed. These confirmation tones can be switched off as follows.

1. Switch the radio off with the  button.
2. To switch on again, hold the **AUTO-SQUELCH** button on the left side pressed and press the  button again. The display will show the  indicator.

To switch on again, repeat steps 1 and 2.

3.14 Using the radio as a stopwatch

Your radio can also be used as a stopwatch.

1. Press the **MODE** button six times. The **TIMER** indicator will flash in the display and the stopwatch display will appear.
2. The stopwatch function is switched on with the  button and switched off with the  button.
3. Confirm the selection with the talk button on the left-hand side. When the stopwatch is switched on, the stopwatch display appears in hours, minutes and seconds.

Starting the stopwatch Press the START button.	Stopping the stopwatch Press the STOP button
Resetting the display Press STOP again while the stopwatch is stopped.	Reading intermediate times Press the START button while the stopwatch is running. Press the START button again to update the display once more.

3.15 Connecting the headset

The radios can be used with an external microphone and earpiece, a so-called headset. In this way, you can keep your hands free for other activities.

You will find the connecting socket on the upper side underneath a cover. Open the cover on the upper side of the radio and insert the plug into the socket. The loudspeaker and microphone in the radio are switched off when the headset is in use.

Make sure that the microphone opening remains unobstructed.



When using the headset, we recommend that the keypad lock on the radio is activated so that no settings can be changed unintentionally.

- Declaration of conformity -

4 Important information

4.1 Technical data

PMR channel frequencies (MHz):

Channel 1: 446.00625	Channel 5: 446.05625
Channel 2: 446.01875	Channel 6: 446.06875
Channel 3: 446.03125	Channel 7: 446.08125
Channel 4: 446.04375	Channel 8: 446.09375

38 CTCSS call frequencies:

CH1=67.0Hz	CH11= 97.4Hz	CH21= 136.5Hz	CH31= 192.8Hz
CH2=71.9Hz	CH12=100.0Hz	CH22=141.3Hz	CH32=203.5Hz
CH3=74.4Hz	CH13=103.5Hz	CH23=146.2Hz	CH33=210.7Hz
CH4=77.0Hz	CH14=107.2Hz	CH24=151.4Hz	CH34=218.1Hz
CH5=79.7Hz	CH15=110.9Hz	CH25=156.7Hz	CH35=225.7Hz
CH6=82.5Hz	CH16=114.8Hz	CH26=162.2Hz	CH36=233.6Hz
CH7=85.4Hz	CH17=118.8Hz	CH27=167.9Hz	CH37=241.8Hz
CH8=88.5Hz	CH18=123.0Hz	CH28=173.8Hz	CH38=250.3Hz
CH9=91.5Hz	CH19=127.3Hz	CH29=179.9Hz	
CH10=94.8Hz	CH20=131.8Hz	CH30=186.2Hz	

Channel separation	12.5 kHz
Battery packs	3,6V 600mAh
Standby time with battery pack	ca. 49 hours
Mixed operation with battery pack	ca. 18 hours
Standby with three 1,5V AAA Batteries	ca. 88 hours
Mixed operation with three 1.5V AAA Batterien	ca. 29 hours

Technical data are subject to change without previous notice.

4.2 Care instructions

The surface of the case can be cleaned with a dry, soft and lint-free cloth. Never use cleaning agents, particularly aggressive solvents.

Never leave the unit in a damp or dusty place. Avoid proximity to sources of heat such as radiators and do not expose the unit to direct sunlight.

SWITEL

www.switel.com