

Analog radios

Handheld radios and mobile radios from Hytera

Hytera's HYT radios for license-free and licensed analog radio offer every user a high level of added value. Their robust, compact construction, their useful functions and their high reliability ensure trouble-free communication, irrespective of whether for professional use or for leisure time.

Whether construction business, facility management or catering: With the analog radios from Hytera you will increase the productivity of your staff.

HYT
Two-way Radio

Radio

TC-320 PMR446

PMR446 handheld radio

The analog handheld radio TC-320 PMR446 is a license-free radio that offers many functions for an attractive price.

The TC-320 PMR446 excels through its compact and its first-class ergonomic design. TC-320 PMR446 users also benefit from the extraordinary sound quality resistance against mechanical impacts.



Highlights

License-free two-way radio

The TC-320 PMR446 is a PMR446 radio and can therefore be used without any specific proof of necessity or a license.

Compact and long-life chassis:

The radio is strong enough to withstand a fall from a height of 1.5m.

Double injection moulding and anti-slip design

Due to the combination of double injection molding process during manufacture and the anti-slip technology on its surface, the TC-320 PMR446 is convenient and easy to operate.

Charging and programming via mini USB interface

The TC-320 PMR446 can be charged directly via its mini USB interface and programmed with the help of the programming software and a programming cable from Hytera.

Functions (excerpt)

- Audio compander
- Scrambler
- Monitor function
- CTCSS/CDCSS and hum and noise
- VOX
- Channel scan
- Energy saving mode
- Warning tone for low battery charge state
- Busy channel lockout
- Time-out timer (TOT)
- Programmable via PC (mini USB interface)
- Line connected cloning function for transferring settings to another two-way radio
- Programmable squelch level



Technical Data

General data	
Frequency range	446.00625 MHz to 446.09375 MHz
Channel capacity	16
Channel spacing	12.5 kHz
Operating voltage	3.8 V
Standard battery	1700 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 10 hours
Frequency stability	± 2.5 ppm
Operating temperature range	-20 °C to +55 °C
Dimensions (H × W × D) (with standard battery, without antenna)	100 mm × 48 mm × 27 mm
Weight (with standard battery)	135 g

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Transmitter	
Transmitting power	0.5 W
Modulation	8K0F3E
Interfering signals and harmonics	≤ -36 dBm
Hum and noise	≤ -34 dB
Nominal audio distortion	≤ 5 %

Receiver	
Sensitivity	≤ 0.282 µV
Adjacent channel selectivity	≥ 55 dB
Intermodulation	≥ 55 dB
Spurious response rejection	≥ 60 dB
Hum and noise	≥ 34 dB
Nominal audio power output	400 mW
Nominal audio distortion	≤ 5 % (400 mW)

Standard scope of delivery



Lithium-ion battery (1700 mAh) BL1715



Power adapter with mini USB port PS0601



Belt clip BC16



Lanyard RO01

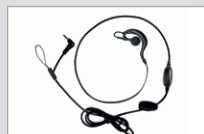
Additional accessories (selection)



Carrying bag (PU) with belt strap PCN003



Quick charger CH05L01



Earbuds with earpiece, microphone EHS12



Earbuds with earpiece, microphone (VOX or PTT) EHS09



Programming cable (USB) PC30

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Radio

TC-446S

PMR446 handheld radio

The license-free radio TC-446S combines modern analog technologies with user-friendly design and therefore boosts productivity.

Thanks to its compact design and low weight, this robust two-way radio is ideally suited for use in facility management, catering and hotel business, production area, retail trade, education system and construction business.



Highlights

License-free two-way radio

The TC-446S is a PMR446 radio and can therefore be used without any specific proof of necessity or a license.

Long battery service life and energy-saving functions

With its standard battery the TC-446S achieves in operation a service life of up to 24 hours with a duty cycle of 5-5-90. The programmable energy-saving function activates itself if the two-way radio has not been used for 10 seconds.

CTCSS/CDCSS signaling

38 different CTCSS and 61 different CDCSS sub-audio tones allow a quick and user-friendly direct call, group call and remote control.

Time-out timer

The TC-446S features a time-out timer to avoid inadvertent continuous operation.

Functions (excerpt)

- Monitor function
- CTCSS/CDCSS and hum and noise
- VOX
- Channel scan
- Energy saving mode
- Warning tone for low battery charge state
- Busy channel lockout
- Time-out timer (TOT)
- Programmable via PC
- Line-connected "cloning" function for transferring settings to another two-way radio
- Selectable squelch levels



Technical Data




General data	
Frequency range	446.00625 MHz to 446.09375 MHz
Channel capacity	16
Channel spacing	12.5 kHz
Operating voltage	7.4 V
Standard battery	1650 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 24 hours
Frequency stability	± 2.5 ppm
Operating temperature range	-25 °C to +60 °C
Dimensions (H × W × D) (with standard battery, without antenna)	113 × 54 × 35 mm
Weight (with antenna and standard battery)	270 g
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP54

Transmitter	
Transmitting power	0.5 W
Modulation	8K0F3E
Interfering signals and harmonics	≤ -36 dBm (< 1 GHz) ≤ -30 dBm (> 1 GHz)
Hum and noise	≤ -38 dB
Nominal audio distortion	≤ 5 %







Receiver	
Sensitivity	≤ 0.282 µV
Adjacent channel selectivity	≥ 60 dB
Intermodulation	≥ 60 dB
Spurious response rejection	≥ 70 dB
Hum and noise	≥ 40 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 % (800 mW)

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Standard scope of delivery

		
Lithium-ion battery 1650 mAh BL1719	Belt clip BC12	Charger CH10L19
		
Hand strap RO03	Switching power adapt- er for charger PS1018	

Additional accessories (selection)

		
Carrying bag with belt strap NCN001	Lithium-ion battery (1300 mAh) BL1301	Programming cable (USB) PC26
		
Remote speaker micro- phone (IP55) SM08M3	Concealed headset EAM12	Earbuds with D-piece and microphone EHM15

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Radio

Power446

PMR446 handheld radio

The POWER446 is an easy to operate, license-free two-way two-way radio that excels through its clear and outstanding voice quality as well as a long battery life.

Thanks to the robust and reliable design and its waterproof and dust-proof quality in accordance with degree of protection IP66, you can fully concentrate on your tasks even in extreme environments.



Highlights

License-free two-way radio

The Power446 is a PMR446 radio and can therefore be used without any specific proof of necessity or a license.

Dust-proof and waterproof in accordance with degree of protection IP66

The device is protected against dust and powerful water jets and is therefore ideal for usage on construction sites or in the outdoor area.

Longer battery service life

A 2000-mAh battery provides a service life of up to 25 hours with a duty cycle of 5-5-90.

Improved audio quality

A loudspeaker with a diameter of 45 mm ensures clear voice output. In addition, modern techniques are used in this device to ensure better sound quality for your radio communication.

Functions (excerpt)

- Monitor function
- CTCSS/CDCSS and hum and noise
- VOX
- Channel scan
- Energy saving mode
- Warning tone for low battery charge state
- Busy channel lockout
- Time-out timer (TOT)
- Programmable via PC
- Line-connected "cloning" function for transferring settings to another two-way radio
- Selectable squelch levels



Technical Data


General data	
Frequency range	446.00625 to 446.09375 MHz
Channel capacity	16
Channel spacing	12.5 kHz
Operating voltage	7.4 VDC
Standard battery	2000mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 25 hours
Frequency stability	± 2.5 ppm
Operating temperature range	- 25 °C to + 60 °C
Dimensions (H×W×D) (with standard battery, without antenna)	119 × 55 × 36 mm
Weight (with antenna and standard battery)	282 g
Shock and vibration resistance	acc. to MIL-STD-810 C/D/E/F
Dust and water protection	Degree of protection IP66

Transmitter	
Transmitting power	≤ 0.5 W
Modulation	11 K0F3E
Interfering signals and harmonics	- 36 dBm (at < 1 GHz) - 30 dBm (at > 1 GHz)
Modulation limiting	≥ 2.5 kHz
Nominal audio distortion	≤ 5 %







Receiver	
Sensitivity	≤ - 118 dBm
Adjacent channel selectivity	≥ 60 dB
Intermodulation	≥ 60 dB
Spurious response rejection	≥ 70 dB
Hum and noise	≥ 40 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 % (800 mW)

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Standard scope of delivery

		
Lithium-ion battery (2000 mAh) BL2001	Belt clip BC12	Charger CH10A03
		
Hand strap RO03	Switching power adapter for charger PS1018	

Additional accessories (selection)

		
Carrying bag with belt strap NCN001	Battery optimizing system MCA05-A3	Programming cable (USB) PC26
		
Remote speaker microphone (IP55) SM13M1	Concealed headset EAM12	Earbuds with D-piece and microphone EHM15

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Radio

TC-610

Analogue handheld radio

Harsh, noisy and dusty working conditions in construction sites may lower your efficiency and productivity by dirtying the radio or shadowing the talk.

The handheld radio TC-610 is specifically designed for such scenarios and has outstanding dust and water protection.



Highlights

Dust and water protection class IP66

Thanks to the IP66-protection you can wash dirt and dust off the TC-610 without worrying. A water jet (40 mm), which is projected from any direction against your radio for up to one minute, must not have any harmful effect. Your radio can be dried to operate normally after you have washed it.

Clear voice output and large range

Superior audio quality is the premise for your team to work efficiently in noisy environments. A powerful loudspeaker ensures crystal-clear sound, even in noisy environments. You can also use high transmitting power for a wide communication coverage.

Reliable mechanical design

The TC-610 is equipped with the HYT battery latch to securely connect together the battery and the radio even during extended usage.

High/low power switchable

The user can change to low or high transmitting power at the press of a button to save the battery or to cover a larger distance.

Battery save

The battery save feature is automatically activated if there is no activity on the channel and no operation is performed, for extended operation time.

Functions (excerpt)

Low battery alert

If the battery level is running low, the radio is alerting the user to recharge the battery.

CTCSS/CDCSS

Set up workgroups/users with unique CDCSS/CTCSS to prevent unwanted conversations on the same frequency.

Programmable via PC

You are able to customize the features of each radio for each user.

Wired clone

Easily copy the features of one radio to another to save time.



Technical Data

General data	
Frequency range	VHF: 136 – 174 MHz UHF: 440 – 470 MHz
Channel capacity	16
Channel spacing	12.5 / 25 kHz or 20 / 25 kHz
Operating voltage	7.4 V
Standard battery	2000 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	Approx. 14 hours (with standard battery)
Frequency stability	± 2.5 ppm
Operating temperature range	-20 °C to +55 °C
Antenna impedance	50 Ω
Dimensions (H × W × D)	119 × 55 × 33 mm (with standard battery, without antenna)
Weight	270 g (with antenna and standard battery)
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP66

Transmitter	
Transmitting power	VHF: 2/5 W UHF: 2/5 W
Modulation	F3E
Interfering signals and harmonics	-36 dBm (< 1 GHz) -30 dBm (> 1 GHz)
Hum and noise	40/35 dB
Nominal audio distortion	≤ 5 %







Receiver	
Sensitivity	0.25 / 0.28 µV
Adjacent channel selectivity	≥ 60 / 70 dB
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40 / 45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Standard scope of delivery

		
Lithium-ion battery (2000 mAh) BL2001	Belt clip BC12	Charger CH10A03
		
Hand strap RO03	Switching power adapter for charger PS1018	Antenna

Additional accessories (selection)

		
Carrying bag with belt strap NCN001	Battery optimizing system MCA05-A3	Programming cable (USB) PC26
		
Remote speaker microphone (IP55) SM13M1	Concealed headset EAM12	Earbuds with D-piece and microphone EHM15

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Radio

TC-610P

Analogue handheld radio

Extreme working conditions in a loud and dusty environment, such as on large construction sites, can reduce performance and productivity if your two-way radio is dirty and the call quality is impaired.

The handheld radio TC-610P is specifically designed for these tasks. Thanks to its robust design and the IP66 protection, this two-way radio is even suitable for extremely rough operating conditions.



Highlights

Dust-proof and waterproof in accordance with degree of protection IP66

The TC-610P offers you reliability and higher productivity in harsh working conditions. The protection against dust and water in accordance with IP66 allows you to simply wash off dirt under a jet of water.

Robust chassis

The TC-610P is manufactured using a double injection moulding process. Thanks to this technology this handheld radio is robust, durable and sits well in the hand.

Improved voice quality

The TC-610P has a powerful loudspeaker. In addition, this device utilises state-of-the-art processes. They ensure an improved sound quality of your calls, even in loud environments.

High range

The high transmitting power of 5 watt in the UHF range allows high ranges, even over large construction sites and long distances.

Programmable channel spacing 12.5 kHz/ 25 kHz

This feature provides a high degree of flexibility and straightforward adaptation to changing requirements in relation to the channel spacing, without the need to buy new radios.

High/low power switchable

The user can change to low or high transmitting power at the press of a button to save the battery or to cover a larger distance.

Functions (excerpt)

- Monitor function
- CTCSS/CDCSS and noise cancellation
- VOX
- Channel scan
- Energy saving mode
- Warning tone for low battery charge state
- Busy channel lockout
- Time-out timer (TOT)
- Programmable via PC
- Line-connected "cloning" function for transferring settings to another two-way radio
- Selectable squelch levels
- Vibration alarm



Technical Data

General data	
Frequency range	VHF: 136 – 174 MHz UHF: 440 – 470 MHz
Channel capacity	16
Channel spacing	12.5 / 25 kHz or 20 / 25 kHz
Operating voltage	7.4 V
Standard battery	2000 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	Approx. 14 hours (2000 mAh lithium-ion battery, included in the scope of delivery)
Frequency stability	± 2.5 ppm
Operating temperature range	- 20 °C to + 55 °C
Antenna impedance	50 Ω
Dimensions (H × W × D) (with standard battery, without antenna)	119 × 55 × 33 mm
Weight	275 g (with antenna and standard battery)
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP66

Transmitter	
Transmitting power	VHF: 2 / 5 W UHF: 2 / 5 W
Modulation	16 K0F3E / 8 K0F3E
Interfering signals and harmonics	- 36 dBm (< 1 GHz) - 30 dBm (> 1 GHz)
Hum and noise	35 / 40 dB
Nominal audio distortion	≤ 5 %







Receiver	
Sensitivity	0.25 / 0.28 µV
Adjacent channel selectivity	≥ 60 / 70 dB
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40 / 45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Standard scope of delivery

		
Lithium-ion battery (2000 mAh) BL2001	Belt clip BC12	Charger CH10A03
		
Hand strap RO03	Switching power adapter for charger PS1018	Antenna

Additional accessories (selection)

		
Carrying bag with belt strap NCN001	Battery optimizing system MCA05-A3	Programming cable (USB) PC25
		
Loudspeaker microphone (IP55) SM13N5	Concealed headset EAN04	Earbuds with D-piece and microphone EHN07

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Radio

TC-620

Analogue handheld radio

The TC-620 is specially designed for users in facility management, in hotels and in the service sector. Besides the varied functions, this handheld radio offers an outstanding sound quality. It is easy to operate, and excels through an optimal price-performance ratio.



Highlights

High/low power switchable

The user can change to low or high transmitting power at the press of a button to save the battery or to cover a larger distance.

Attractive design

The TC-620 abandons a conventional purely black case. With grey case elements and the metallic nameplate, this handheld radio visually stands out.

Programmable channel spacing 12.5 kHz/25 kHz

This feature provides a high degree of flexibility and straightforward adaptation to changing requirements in relation to the channel spacing, without the need for you to buy new radios.

Lithium-ion battery with 2000 mAh

With a duty cycle of 5-5-90 the battery achieves an availability of up to 14 hours. You can activate a three-colour LED display by pressing a single button to display the charge state of the battery.

Improved voice quality

The TC-620 has a large loudspeaker. In addition, this device utilizes state-of-the-art audio processes. They ensure an improved sound quality of your calls, even in loud environments.

Expanded loudspeaker protection

The loudspeaker of the TC-620 is protected against damages from hard objects, such as nails and other pointed objects, and against water entering the device.

Functions (excerpt)

- Monitor function
- CTCSS/CDCSS and noise cancellation
- VOX
- Channel scan
- Energy saving mode
- Warning tone for low battery charge state
- Busy channel lockout
- Time-out timer (TOT)
- Programmable via PC
- Line-connected "cloning" function for transferring settings to another two-way radio
- Selectable squelch levels



Technical Data



General data	
Frequency range	VHF: 136 – 174 MHz UHF: 440 – 470 MHz
Channel capacity	16
Channel spacing	12.5 / 25 kHz or 20 / 25 kHz
Operating voltage	7.4 V
Standard battery	2000 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	Approx. 14 hours (2000 mAh lithium-ion battery, included in the scope of delivery)
Frequency stability	± 2.5 ppm
Operating temperature range	- 20 °C to + 55 °C
Antenna impedance	50 Ω
Dimensions (H × W × D) (with standard battery, without antenna)	117 × 54 × 31 mm
Weight	275 g (with antenna and standard battery)
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP54

Transmitter	
Transmitting power	VHF: 2 / 5 W UHF: 2 / 5 W
Modulation	F3E
Interfering signals and harmonics	- 36 dBm (< 1 GHz) - 30 dBm (> 1 GHz)
Hum and noise	35 / 40 dB
Nominal audio distortion	≤ 5 %







Receiver	
Sensitivity	0.25 / 0.28 µV
Adjacent channel selectivity	≥ 60 / 70 dB
Intermodulation	≥ 60 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40 / 45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Standard scope of delivery

		
Lithium-ion battery (2000 mAh) BL2001	Belt clip BC12	Charger CH10A03
		
Hand strap RO03	Switching power adapter for charger PS1018	Antenna

Additional accessories (selection)

		
Carrying bag with belt strap NCN001	Battery optimizing system MCA05-A3	Programming cable (USB) PC26
		
Remote speaker microphone (IP55) SM13M1	Concealed headset EAM12	Earbuds with D-piece and microphone EHM15

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Radio

TC-700P

Analogue handheld radio

Thanks to the advanced audio processing and the anti-interference technologies, the TC-700P allows unusually clear communication even in noisy environments with high levels of interference. The multi-level safety mechanism also offers the optimal safety solution for critical applications.



Highlights

Safety guaranteed

To ensure the protection and safety of the user, the TC-700P provides important functions for critical applications, in emergencies or in the event of accidents with its lone worker, man down alarm and emergency alarm features.

High transmitting power

With its transmitting power of up to 5 watt the TC-700P achieves a large range.

Excellent audio quality

Thanks to its powerful loudspeaker with an audio power output of up to 1.5 watt the TC-700P ensures clear replay even in a noisy environment. With the "whisper" feature the TC-700P transmits speech clearly even if the user speaks quietly.

Scan

The TC-700P supports two scan types: Normal scans and vote scans. Normal scans make it possible to listen to the transmissions from other channels, while the vote scan helps on establishing contact with the nearest base station.

Functions (excerpt)

- Vibration alarm
- Emergency call, lone worker and man down alarm
- CTCSS / CDCSS
- Compressor
- Scrambler (randomizing the binary signals)
- Intercept
- Switching off squelch
- Announcement of the current channel number
- Warning with low battery charge
- Adjusting transmitting power
- Various signaling types such as telephone signaling, 5-tone sequence and HDC2400TM
- Call 1 - call 5 (calls assignable to keys, e.g. for 5-tone signaling)
- Bypassing the repeater (talk around)
- VOX (voice-controlled send keying)
- Time-out timer (TOT)
- Wireless copying of settings to another radio
- Manual/automatic matching with a PC
- Patrol monitoring (optional)



Technical Data

General data	
Frequency range	VHF: 136 – 174 MHz UHF: 400 – 470 MHz
Channel capacity	16
Channel spacing	12.5 / 20 / 25 kHz
Operating voltage	7.4 V
Standard battery	1700 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 12 hours
Frequency stability	± 2.5 ppm
Operating temperature range	-25 °C to +60 °C
Antenna impedance	50 Ω
Dimensions (H×W×D) (with standard battery, without antenna)	124 × 54 × 35 mm
Weight (with antenna and standard battery)	330 g
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP54

Transmitter	
Transmitting power	VHF: 2 / 5 W UHF: 2 / 5 W
Modulation	16 K0F3E / 11 K0F3E
Interfering signals and harmonics	-36 dBm (< 1 GHz) -30 dBm (> 1 GHz)
Hum and noise	40 / 45 dB
Nominal audio distortion	≤ 5 %

Receiver	
Sensitivity	0.25 / 0.28 µV
Adjacent channel selectivity	≥ 60 / 70 dB
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40 / 45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Standard scope of delivery

Lithium-ion battery (1700 mAh) BL1703	Belt clip BC08	Charger CH10L07
Hand strap RO04	Switching power adapter for charger PS1018	Antenna

Additional accessories (selection)

Carrying bag leather with belt strap LCBY22	Battery optimizing system MCA05-A1	Programming cable (USB) PC25
Loudspeaker microphone (IP55) SM13N5	Concealed headset EAN04	Earbuds with D-piece and microphone EHN07

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Radio

TC-780

Analogue handheld radio

The handheld radio TC-780 is setting new performance standards with both its compact design and the numerous functions. With LCD display, keypad, 256 channels and state-of-the-art analog radio technology, the TC-780 provides you with versatile functions and reliable performance.



Highlights

256 channels

The two-way radio can be programmed with up to 256 channels. Depending on the channel position, the two-way radio can be operated with different signaling properties.

Safety for the user

The TC-780 offers users additional safety, particularly if they are working alone. With the lone worker function an emergency call is sent if the user does not react regularly to a warning sound. The emergency call signal can be sent to a predefined call number or group.

Energy saving mode and battery state indication

The energy saving mode is activated if no activities are performed on the two-way radio for 10 seconds. If it is necessary to charge the battery, a red flashing LED indicator warns about the low battery charge state.

Compact construction

The compact chassis size and the low weight ensure that the radio is easy to carry. The TC-780 meets MIL-STD-810 C/D/E/F and is dust-proof and splashwater-proof in accordance with IP54. As such it is always a dependable companion during day-to-day work.

Functions (excerpt)

- Adjustable transmitting power
- Scanning, priority scan for selected channels
- Programmable channel spacing
- Announcement of the selected channel on switching on and on changing channel
- Built-in scrambler
- Various signaling types, for example: 38 CTCSS and 83 CDCSS sub-audio tones, 2-tone and 5-tone calling as well as HDC2400™ signaling
- Different call lists
- Call forwarding
- Calls in telephone networks possible after configuration
- Whisper function (clear voice transmission despite speaking quietly)
- Lone worker and man down alarm (optional)
- Radio check and safety check
- VOX function
- Time-out timer
- Programmable alarm tone
- Vibration alarm
- Wireless copying of settings to another terminal
- Password protection



Technical Data






General data	
Frequency range	VHF: 136 – 174 MHz UHF: 400 - 470 MHz
Channel capacity	256
Channel spacing	12.5/20/25 kHz
Operating voltage	7.4 V
Standard battery	1700 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 13 hours
Frequency stability	± 2.5 ppm
Operating temperature range	-30 °C to +60 °C
Antenna impedance	50 Ω
Dimensions (H×W×D) (with standard battery, without antenna)	126 × 54 × 35 mm
Weight (with antenna and standard battery)	360 g
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP54

Transmitter	
Transmitting power	VHF: 1/2/5 W UHF: 1/2/5 W
Modulation	16 K0F3E/11 K0F3E
Interfering signals and harmonics	-36 dBm (< 1 GHz) -30 dBm (> 1 GHz)
Hum and noise	40/45 dB
Nominal audio distortion	≤ 5 %







Receiver	
Sensitivity	0.25/0.28 µV
Adjacent channel selectivity	≥ 60/70 dB
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40/45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Standard scope of delivery

		
Lithium-ion battery (1700 mAh) BL1703	Belt clip BC09	Charger CH10L07
		
Hand strap RO04	Switching power adapter for charger PS1018	Antenna

Additional accessories (selection)

		
Carrying bag leather with belt strap LCBY22	Battery optimizing system MCA05-A1	Programming cable (USB) PC25
		
Loudspeaker microphone (IP55) SM13N5	Concealed headset EAN04	Earbuds with D-piece and microphone EHN07

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Radio

TM-600 TM-610

Analogue mobile radios

The powerful and easy to operate mobile radios TM-600 and TM-610 are immediately operational and ensure a reliable communication that is required for the efficient work of mobile teams.

The TM-600 can indicate the channel on its numerical 8-segment display. In addition, LEDs show the channel search and transmitting power.

The large 15-segment LCD display on the TM-610 provides information on channels or zones as well as call numbers and other function settings. Keyboard and display are illuminated so that good visibility is ensured even at night.



TM-600



TM-610



Functions (excerpt)

Automatic Number Identification (ANI)

When receiving an HDC2400™ or HDC1200 signal, the display shows the identification or the name of the caller. The firmware of the two-way radio supports a selective call list with up to 128 entries (128 for TM-610, 8 for TM-600).

128 channels and dynamic "regrouping" function (TM-610)

128 channels and the "zoning" function of the TM-610 provide you with a flexible organization of work groups. You can assign any name to every channel and every zone so that a simple identification is possible. The dynamic regrouping function enables highest flexibility in a changing working group environment.

Additional functions

- Stun/Kill & Revive
- 6/4 (TM-610 / TM-600) programmable buttons with background lighting for quick access to important functions
- Operation via vehicle ignition key, time-controlled switch-off
- Voice output via external loudspeaker possible
- Channel scan (TM-600) – also includes priority channel scan, selection of a priority channel as well as temporary elimination of a channel with interference
- Numerous scan options (TM-610) – single and multiple zone scan, addition and removal of channels, elimination of channels with interference as well as selection of a priority channel
- CTCSS/CDCSS
- DTMF call function makes possible flexible calling methods, such as call by name, automatic call, repeat call as well as manual call
- Programming via PC
- UST (User Selectable Tone) – selection of a CTCSS/CDCSS code via a programmable function key
- Lone Worker
- Dual home channels (TM-610), single home channel (TM-600)
- Auto transpond
- Time-out timer (TOT)
- Busy channel lockout
- BOT ID/EOT ID
- Off-hook decode
- Selectable squelch levels
- Frequency reverse
- Talk-around function
- Leasing operation
- Wireless copying of settings to another terminal

Powerful loudspeaker

The HYT voice compander and powerful loudspeakers ensure a clear audio output.

Numeric 8-segment LED display (TM-600)

The numeric 8-segment display shows the operating channel. LEDs show the channel search and transmitting power.



TM-600

Large 15-segment LCD display (TM-610)

Channels, call numbers and other function settings are displayed. Keyboard and display are illuminated so that good visibility is ensured even at night.



TM-610

Emergency call

Both radios can send an emergency call signal using the emergency call button.

Technical Data

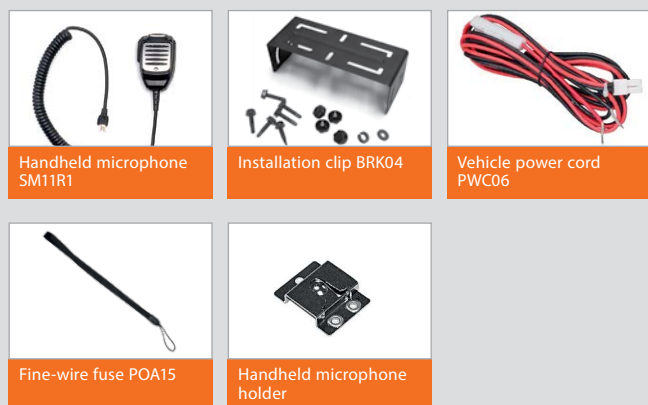
General data	
Frequency ranges	VHF: 136 – 174 MHz UHF: 400 - 470 MHz
Channel capacity	TM-600: 8 TM-610: 128
Channel spacing	12.5 / 20 / 25 kHz
Operating voltage	13.6 V _{DC} ± 15 %
Power consumption	
Standby operation	0.5 A
Receiving mode	< 2.0 A
Transmission mode	< 5 A (5 W) / < 8 A (25 W)
Frequency stability	± 2.5 ppm
Antenna impedance	50 Ω
Dimensions (H × W × D)	152 × 43 × 125 mm
Weight	1 kg
Operating temperature range	- 30 °C to + 60 °C
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP54

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Transmitter	
Transmitting power	VHF: 5 / 25 W UHF: 5 / 25 W
Modulation	16 K0F3E / 11 K0F3E
Interfering signals and harmonics	- 36 dBm (< 1 GHz) - 30 dBm (> 1 GHz)
Hum and noise	> 45 dB (20 / 25 kHz) > 40 dB (12.5 kHz)
Nominal audio distortion	≤ 3 %

Receiver	
Sensitivity	0.28 µV
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	> 45 dB (20 / 25 KHz) > 40 dB (12.5 KHz)
Internal audio power output	5 W (< 5 % distortion) 3 W (< 3 % distortion)
External audio power output	13 W (< 5 % distortion) 12 W (< 3 % distortion)

Standard scope of delivery



Handheld microphone SM11R1

Installation clip BRK04

Vehicle power cord PWC06

Fine-wire fuse POA15

Handheld microphone holder

Additional accessories (selection)



Power adapter PS22002

External loudspeaker SM09S2

Programming cable (COM) PC21

Table microphone SM10R2

Handheld microphone with keypad SM07R1 (TM-610)

The illustrations below are for reference purposes only. The products might differ from these illustrations.



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SGS certificate DE11/81829313

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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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