

SOMMERKAMP

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CB-SSB-FM AMATEUR PROGRAM 1979



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TS 5612



TS 5680 DX

SOMMERKAMP TS 5612
12 Channels Transceiver

Technical specifications identical to the handy transceiver TS 5680 DX, though with the following modifications: input power 2 Watts, supplied with 12 channels by 24 crystals (channel 4-15), and connection plug for 12 Volt battery charger. Postal approved in West Germany, Austria, Switzerland, Norway and France.

SOMMERKAMP TS 5680 DX
80 Channels 5 Watts Transceiver

The first among the smallest handy-talkies of the world with digital readout, using the modern PLL technique and offering not less than 80 different channels to talk on. Its powerful transmitter guarantees communication over long distances. Our TS 5680 DX doesn't only have all 23 European CEPT-channels available but in addition carries further 57 important international DX channels. An outstanding combination: a handy precision moulded cabinet, high transmission power, multi-channel coverage, highly sophisticated technique, sturdy design, but still small in size and thus ideal for travelling and expeditions. Moreover, it includes a new battery power saving device: 5 seconds after switching on this special device, the digital channel readout switches off automatically, to illuminate for 5 seconds after every change of channel. Transmitting power 5 Watts AM. Receiver sensitivity better than 0.25 uV at 10 dB S/N. The extremely precise PLL frequency-synthesizer covers the CB-frequency band in 10 KHz steps from 26.965 MHz to 27.855 MHz. Equipped with squelch, tone call, automatic noise limiter, HIGH-LOW band-switch, S-meter, functioning also as battery-meter and relative power indicator on transmission. Electronic transmit/receive switching. Equipped with a large battery holder for 10 pieces type UM 3, or rechargeable batteries of 1.5 V each and with jacks for: earphone (as soon as it is plugged in, the built-in loudspeaker/microphone becomes microphone only), battery charger, external 12 V vehicle battery or power supply and external antenna. The built-in telescopic antenna can easily be unscrewed. It takes less than a minute to replace the telescopic antenna with the type RA 1608 flexible rubber antenna. Fitted with our standard 8 pin DIN jack for operation of many accessories such as tape-recorder, loudspeaker-microphone SM572, external loudspeaker, external microphone, telephone hand-set with PTT-switch model TS 1022 or the selective tone call system PARROT 76 with automatic answer back on 12 different codes. Delivered with leather bag, carrying straps and earphones. This handy transceiver is without any competition and was designed and manufactured in our own factory. Dimensions: 230x75x40 mm Weight: 1 Kg with batteries.



SOMMERKAMP TS 152 AM/FM
80 Channels 10 Watts Transceiver with Stereo Car Radio AM/FM

For the travelling CB amateur, our new 80 channels PLL transceiver. From the outside it can hardly be distinguished from a normal AM/FM car radio, but inside combined with an efficient 10 Watt 80 channels CB transceiver. It can be mounted into any car's dashboard due to its miniature size (DIN norm) of only 17.5x15.5x4.5 cm. Illuminated dial, digital readout and S-meter, stereo-balance tuner. In standby-position it switches automatically to CB as soon as a channel becomes busy. Connections for microphone, radio-loudspeaker, radio-antenna+CB antenna. With mounting accessories. Dimensions: 175x155x45 mm Weight: 1.7 Kg



SOMMERKAMP TS 510 GT
3 Channels Transceiver

Our economy-priced hand-held transceiver provides a powerful signal for reliable communication. A sensitive receiver and a powerful transmitter, delivered in a leather case, make this set ideal for a variety of applications both professional and amateur, 3 channels (1 with crystal), TX 2 Watt AM, RX sensitivity better than 0.5 uV at 10 dB SN, IF 455 KHz, with squelch, automatic noise limiter, 1750 Hz tone call. Jack for 12 Volts battery charger. Built-in battery meter, 12V DC from 8 pieces UM 3 batteries. Supplied with leather case and carrying straps. Postal approved in Germany, Switzerland, Austria and France. Dimensions: 210x90x45 mm Weight: 1.2 Kg with batteries



SOMMERKAMP TS 1215
12 Channels Transceiver

The smallest CB mobile transceiver of the world! Now with improvements like 12 channels with 24 crystals, digital channel indication, and 5 LED's to show relative transmitter power and receiving signal strength. The circuit ideas are already famous from our 40000 times sold TS 727/737, like electronic receive-transmit switching, dual gate MOSFET in receiver stage, ceramic and L/C filters, IF 455KHz. Sensitivity better than 0.4uV at 10dB SN. Squelch, automatic noise limiter, colored TX-RX indication lights. Loudspeaker already built-in, external speaker can be connected by the jack on the rear of the set. The 8 pin DIN plug for accessories like loudspeaker microphone SM 5732, or PARROT 76, our 12 channel selective tone call device with automatic answer back. A valuable mobile station which fits into any glove box in any car or boat. Delivery with the telephone hand set TS 1022, mounting bracket and small parts. Dimensions: only 120x35x160 mm Weight: 1 Kg





SOMMERKAMP TS 780 DX The "SSB-Coffee warmer"
360 Channels 170 Watts AM/FM/SSB (USB+LSB) CW Transceiver

20 years ago, we were the first on the market to introduce reasonably priced SSB - equipment for everyone. Once again, we have the pleasure to offer you some outstanding equipment: Our new 120 channel AM, CW, FM and 240 channel SSB-Transceiver TS 780 DX. What's more, the transceiver has the same small dimensions like our famous postal approved 2 Watts Transceiver TS 712. A linear-amplifier of not less than 170 Watts PEP input has been added to the rear panel of the set. It functions not only on the conventional AM- and CW modes but also on FM and, of course, on SSB with an extra punch. It is for a good reason that all long-distance communication stations of the airlines, the merchant marine, the post authorities, the military forces and the radio amateurs operate since decades on the SSB- mode in order to benefit from a power gain of up to 10 times as compared to the AM-mode. A simple toggle-switch cuts down the husky 170 Watts to small 2 Watts, in case the law requires this. Built-in frequency-bands are as follows: Channel 1 to 40, 26.325-26.765, 26.965-27.405, 27.415-27.855 MHz. Should there be need to operate on other frequencies within the 10 m- or 11m - bands, all it needs is to change 2 crystals and to

slightly retune the set. Fully licensed radio amateurs may operate this transceiver at full power on the 10 m band. The front panel carries push-pull knobs to switch on an advanced noise blanker on mode SSB or an efficient automatic noise limiter on modes AM, CW and FM. Also on the front panel a clarifier knob for accurate receive frequency setting, and another knob (VXO +/- 5.5 kHz) for both receive+transmit frequency adjustments.

A mode switch selects AM, FM, LSB, USB or CW. Digital readout of all channels. The conventional channel-switch has given way to an electronic UP/DOWN scanning switch with two different speeds. The 8 pin DIN plug to connect the accessories like loudspeaker microphone SM 5732, telephone handset TS 1022 or our selective tone call device PARROT 76 with 12 channels and automatic answer back. The ultimate fantasy of this communication-box is that it has been prepared to accept not only the regular microphone with built-in volume control (known already from our model TS 340 DX) but also an optional remote control microphone fitted with doubled digital channel readout, volume control, channel up/down-scan switch and VXO control. Thus, the equipment itself may be tucked away into a free space aboard the car or boat and be remote-controlled via a long cable. A switch is located on the backside of the transceiver to operate the S-meter for antenna adjustments and SWR-bridge. A calibration potentiometer is placed close by. When looking over this equipment, one cannot avoid detecting the experienced hand of the CW and SSB - DX- radio amateurs having contributed to its success. On our first CQ with the transceiver mounted into a VW Golf Diesel car, sitting in the courtyard and still with an unmatched whip-antenna, we received best 5/8 signal and quality report also from the Japanese amateur station JH 2 XMN, just 20 minutes away from our factory. We are quite convinced that this DX - Transceiver with a punch will not be passed over by anyone on the 10 m- and 11 m - bands.

Dimensions: 274x58x205 mm Weight: 3.5 Kg

SOMMERKAMP TS 512/TS 524
12 Channels Transceiver

Introducing some outstanding modifications improving a tried set, approved by postal authorities and sold in more than 50 000 units to satisfied clients. These modifications could formerly only be fitted to expensive commercial radio equipment: adjustable RF-gain, fine tuning +/-4.5 KHz (Delta-Tuning)-you will be amazed how many stations are just not quiet on the desired channel. Featuring a lighted meter, switchable to be either SWR-bridge, field strength indicator or relative power meter. Crystallized with channels 4-15 (TS 512) or channels 1-24 (TS 524), digital display throughout. These transceivers profit from some circuit ideas which have become famous in a previous model: IC's in the AF and transmitter modulator, dual-gate MOSFET in RF - and mixer stages, electronic receive/transmit switching, adjustable squelch and red mode indicator light. Transmitter power output 0.5 - 5 watts, whatever the postal regulations prescribe. Receiver sensitivity better than 0.4 uV at 10 dB S/N. A 8 pin DIN jack permits the operation of auxiliary equipment such as: telephone handset TS 1022, loudspeaker/microphone SM 5732, external loudspeaker, microphone extension cable, tape recorder, the famous selective tone call system PARROT 76



with 12 different codes and answer back. Important: contrary to many cheap models on which changing channel-frequencies is either very difficult or impossible due to PLL or synthesizer crystals employed, our models can be put on any desired channel within the entire 11m band by simply changing the 455 KHz IF-crystals.

Technical data in accordance with the latest European postal regulations. Supplied with microphone, mounting bracket and small parts.

Dimensions: 156x58x205 mm Weight: 2 Kg

SOMMERKAMP TS 524

Identical to SOMMERKAMP TS 512, but modified after the latest European postal regulations, with 24 channels.



SOMMERKAMP FRG 7
Receiver AM/SSB (USB+LSB) CW from 0.5 - 30 MHz

This model is a special shortwave-receiver using the triple conversion super heterodyne system with a frequency-synthesizer oscillator. Continuous reception of the entire

frequency range from 0.5 to 29.9 MHz, in the modes CW, SSB (lower and upper sideband), AM, and AM with ANL. Provision is made for both AC power and battery operation. The dial light can be switched off to save battery power. Antenna connections: fixing jack for shortwave long wire antenna, for MW wire antenna, 50 Ohms coax antenna input for HF - antennas cut to frequency. Three position switch for signal attenuation (normal: 250 to 3000 Hz, narrow 400 to 2500 Hz, low 250 to 1500 Hz audio frequency passband). Special knob for fine tuning. Receiver sensitivity in SSB/CW mode: 0.7 uV at 10 dB S/N, AM 2.0 uV at 10 dB S/N. Selectivity: 3 KHz at -6 dB, 7 KHz at -50 dB. Frequency stability better than 500 Hz after 30 minutes operation. Power supply 12 Volts DC or 100, 110, 117, 200, 220, 234 Volts AC, 50-60 Hertz.

This robust and economic price receiver got very popular for marine purposes and everybody who wants to listen to short wave broadcast and aircraft and marine SSB stations. Dimensions: 340x153x285 mm Weight: 7 Kg.



SOMMERKAMP FT 227 RB

800 Channels 10 Watts 2m FM Transceiver with Memory Unit

A unique construction designed with the latest technical features: an optical matching generator selects like a computer the desired channel from the 800 frequencies on the entire international 2m amateur band between 144-148 MHz. The old fashioned rotary channel switch with all its negative features has become superfluous. The memory frequency

circuit ensures the immediate recall of the pre-programmed 2 simplex channels and 4 repeater frequencies. This versatile transceiver offers the choice between simplex operation, plus or minus repeater shift, and transmitting on a "discrete" frequency channel with shift up to 4 MHz if desired. Switches with illuminated control indication for memory programming, +5 kHz frequency split, +/- repeater shift, the discrete 4MHz channel, TX operation, and scanner operation for free or occupied channels. Easy scanner operation by the microphone. Tone burst switchable. The transceiver is prepared for the additions like a squelch which can be opened only by a selective tone call, and remote control. The PLL circuit guarantees the maximum of reliability and frequency accuracy. An automatic protection circuit avoids overloading the final transistor in case the antenna is not adapted properly or not at all, or if there exists an unwanted reverse polarization of the DC power supply to the set. Illuminated S-Meter indicates also relative output power. Delivery with dynamic microphone and mounting bracket for mobile/home operation.

Dimensions: 180x60x220 mm

Weight: 2.7 Kg

SOMMERKAMP FRG 7000

Receiver AM/SSB (USB+LSB) CW from 0.25 - 30 MHz

Our new general coverage receiver FRG 7000 has characteristics which can be found only in very expensive commercial receiver models. Frequency range from 0.25 to 30.0 MHz in 5 segments, digital frequency readout, highly precise quartz-controlled digital clock with 6 LED's being adjustable to show either GMT or local time at the flip of a switch. This modern quality receiver is very popular for SWL's, aircraft, marine and SSB-commercial station listeners. Power requirement 100-234 Volt; 12 Volt connection can be made to use the receiver in the car or for maritime purposes. Modes of operation: AM/CW/USB/LSB (switchable). Separate synchronization of MHz and kHz segments. With vernier fine-tuning, HF signal attenuator, automatic noise limiter (ANL) and preselector with lighted frequency segment indicator. The receiver contains 28 IC's, 16 FET's, 8 LED's, 36 diodes and 16 transistors. Its sensitivity on SSB/CW is better than 0.7 uV, on AM better than 2.0 uV at 10 dB S/N. Selectivity on SSB/CW better than ± 1.5 kHz, AM better than 6 kHz at -6 dB. Receiver stability after 30 minutes operation better than 500 Hz. Antenna impedance 50 Ohms for the range from 1.6 to



30.0 MHz, high impedance terminal from 0.25 to 1.6 MHz.

Automatic on/off switching after programming the timer Memory. Because of the outstanding technical data and the easy operation, our FRG 7000 receiver already serves in many marine coastal stations and airport towers.

Audio output 2 watts. Built-in loudspeaker, head-phone jack with automatic loudspeaker cut-off and phone-jack for connection of tape recorder. Delivered with a small wire antenna.

Dimensions: 360x125x295 mm Weight: 7 Kg.



SOMMERKAMP FT 301 D CBM

Transceiver AM/SSB (USB+LSB) CW/FSK - Marine - CB

Serving already all over the world under most adverse operating conditions, but always with tremendous success: Our fully transistorized Transceiver FT 301 D CBM with digital frequency readout. With 200 Watts PEP input on CW and SSB (USB+LSB) and 50 Watts input on AM and FSK. This fine piece of equipment may perhaps turn out to be expensive or even too good for the beginner. For the ambitious CB - enthusiast or the single-handed navigator on a sailing trip around the world, however, it represents the fulfillment of his dreams. With the FT 301 D CBM, world-wide telephony communication is even possible on simple whip-antennas. The transceiver does not need any antenna adjustment as it has a fixed 50 Ohms final output. Should the antenna be mismatched for some reason, an automatic protection circuit will come into action immediately. The following frequency bands are available: 160, 80, 40, 20, 15, 11, 10 m (up to 30.0

MHz) + 5 MHz WWV/JJY time signal. The latter is on receive only, but absolutely indispensable for astro-navigation purposes and propagation studies. The CB Band 27-27.5MHz can be selected entirely by switch position AUX, with one optional crystal the entire 11m CB Band from 27-28 MHz will be covered. The AM-filter has a 6 kHz passband. The special marine frequency band from 1.6 MHz to 2.2 MHz has been enclosed for the seagoing operator. 11 selectable fixed channels may be equipped later by the owner. Operating modes: LSB, USB, CW, AM and FSK. Built-in speech processor for maximum increase of output power. Traffic may be conducted with MOX, VOX and CW break-in. With adjustable CW - sidetone, switchable noise-blanker, selectable clarifier (fine tuning) for either receive frequency only or for both receive+transmit frequency simultaneously. Thus, an eventual frequency drift detected on the incoming signal can be corrected instantly. With built-in loudspeaker, selectable two-step ALX, jacks for external VFO and for connection of a phone - patch (transmission and reception of telephone conversations), for a telegraph key and many other interesting features, all contributing to an outstanding piece of equipment the owner can rightfully be proud of.

The entire wiring of this transceiver is done on easily exchangeable printed circuits making adjustment and maintenance easy.

For 220 Volts AC operation, the power supply FP 301 with built-in loudspeaker is available as an option. Power consumption: On transmit maximum 280 Watts (21 Amp.), on reception 12 Watts (1.1. Amp.).

Delivered with microphone and connection plugs.

Dimensions: 280x125x370 mm Weight: 9 Kg



SOMMERKAMP TS 155 MT

12 Channels 50 Watts FM Marine Transceiver

Many times worth its price: FM transceiver with 12 channels, 50 Watts. It comes equipped with the international channels 6 "ship-to-ship" or "ship-to-port" and 16 "call/emergency". The compact design fits everywhere into any boat or yacht having a 12 V DC supply. Crystals for other marine frequencies will be supplied by us from stock. Frequency band 156 to 163 MHz. The professional telephone handset TS 1022, mounting bracket and small parts for easy installation are delivered with our TS 155 MT. Selectable power output 2 Watts/50 Watts. Built-in meter indicating either field strength or relative output power. Features adjustable squelch, mode status light, tone call 1750 Hz and 8 pin DIN jack for operation with an external loudspeaker, the loudspeaker/microphone SM 5732, the selective tone call system PARROT 76 with automatic answer back. Immediate radio contact can be made even with the largest ocean vessel, as all VHF marine channels are internationally identical. Every coastal marine VHF - station will put you through to the public telephone network to talk to any party everywhere in the world. This set-when equipped with other frequencies - can also be used in a vehicle of any kind.

Dimensions: 274x58x205 mm Weight: 2.4 Kg

SOMMERKAMP TS 206 MT

6 Channels 2 Watts FM Marine Transceiver

Its technical specifications correspond to those of model TS 206 AT, however tuned to Marine-frequencies. Fitted with the international channels 6 (156.3 MHz) and 16 (156.8 MHz). Ready to be used on the same marine-frequencies as those specified for TS 155 MT between 156 MHz and 163 MHz. The band 163 MHz to 173 MHz is available on special request. Can be operated with loudspeaker microphone SM 5732, telephone handset TS 1022 or with our 12 channel selective tonecall system PARROT 76 with automatic answer back.



SOMMERKAMP CPU 2500 R

800 Channels 25 Watts FM Transceiver with Centralprocessor

This rather unique mobile transceiver on 2m FM contains a miniaturized computer and a photo - optical coupling device permitting to choose the desired operating channel in 5 KHz steps within 800 possible channels of the international 2m Amateur band 144 MHz to 148 MHz. The old style channel-switch has disappeared. The central processing unit functions like a microcomputer. It stores 4 programmable channels for simplex or plus/minus repeater mode offset. In addition, it stores a discrete frequency programmable on an offset up to 4 MHz. An UP/DOWN scanner can be operated to shift frequencies in either 5 KHz - or 10 KHz steps. Upon pushing a button, the scanner searches for a free or a busy channel as desired on all or only amongst the 4 programmable frequencies. The handy push-button-microphone permits the programming of the 4 memory channels, frequency selection, UP/DOWN scanning, frequency offset up to 4 MHz, choice of repeater mode offset or transmitting a 2 tone call for Autopatch or control purposes. There is automatic or manual unlatching of the crystal-controlled toneburst for access to a repeater. Transmitting power selectable 25 Watts/3 Watts.

Upon pushing a key, the memory unit stores the 4 programmed channels even after ORT. A squelch circuit to be unbiased by a selective tone-call is available. The PLL - unit guarantees a maximum of reliability and precision of the frequency which is indicated by 6 digits. There are 7 LED's to indicate the programmed status of the 4 memory channels. Large, well readable S - meter, doubling as a relative power output-meter on transmission. With final amplifier protection circuit and protection against inverted battery connection. Bright status lights on transmission- and scanning - modes (whilst searching for a busy channel). Delivered with all mounting hardware. Can be used as a fixed station fed by our husky NT 60 power supply. Current drain Receiver: 0.6 Amp, Transmitter (High) 6.0 Amp, (LOW) 2.5 Amp.

Dimensions: 180x72x270 mm

Weight: 3.2 Kg



SOMMERKAMP FT 225 RD

25 Watts 2m AM/FM/SSB (USB+LSB) CW Transceiver

Developed from Europe's most popular 2 m SSB/CW/AM/FM station with digital readout down to 100 Hz and memory circuit switch. Double analog display down to 1 KHz. LED's indicating repeater, clarifier, VFO-and TX-operation. Powersaving dimmer switch, RF-attenuator and 1750 Hz tone call button on the front panel. All circuits on computer-type boards, easy to exchange. All service-and adjustment points are easily accessible after removing the cabinet's top. VFO-

operation on each band as well as on 11 fixed frequencies within each band, to be crystallized later by the owner.

Switchable clarifier for receive only or for both receiver and transmitter. Easy tunable linear VFO with PLL-synchronization for best harmonic-suppression. Frequency range from 144 to 148 MHz in 4 band segments. Modes SSB (USB+LSB), CW, AM, FM. Transmitter output on SSB/CW 25 watts, AM 3 watts. Receiver sensitivity on SSB/CW 0.5 uV at 10 dB S/N. Current drain TX 6.5 Amp, RX 1.2 Amp. The 600 KHz shift for repeater operation is reversible, that way the equipment may operate like an independent repeater station. RF and IF - circuits are tuned in synchronization with the position of the band switch. Each segment is perfectly adjusted by individual varicaps. Individual control of RF and AF, microphone amplifier adjustable on the front panel. Built-in power supplies for either 220 Volts AC or 12 Volts DC. Features PTT transmit/receive switching, VOX with adjustable delay (also on CW) or manual (MOX). Lighted meter indicating either relative power output or acting as an S-meter on reception as well as an FM-discriminator center-indicator. Built-in loudspeaker, jacks for external speaker and headphones as well as for relay contacts for the control of accessory equipment. Hand microphone and small parts are supplied.

Dimensions: 280x125x315 mm

Weight: 9 Kg

SOMMERKAMP FT 7 B

Transceiver AM/SSB (USB+LSB) CW + CB

Small dimensions, easy operation and outstanding technical data are offered by this brand - new miniature transceiver the car driver and the yacht skipper have been waiting for a long time.

All band operation from 80-10 m on modes USB/LSB and CW at 100 Watts PEP input. The transmitter/receiver and the antenna adjustment is done by one knob only. A MOSFET in the receiver input guarantees ultimate sensitivity. The tuning dial is lighted, accuracy of frequency readout 1 KHz, bandwidth of 500 KHz. Velvet smooth VFO, no play in the tuning mechanism. With modern switchable noise blanker, colored mode indicators, built-in switchable 100 KHz marker generator, switchable clarifier, choice of crystal-controlled transmitter operation with variable receive frequency. All circuits are located on exchangeable print boards, easy to be serviced. This compact transceiver is ready to work on any 12 Volts 9 Amp. power source. The 11m CB Band is entirely covered from 27-28 MHz.



Dimensions: 230x80x290 mm Weight: only 5 Kg
Optional accessory: digital frequency indicator model SOMMERKAMP YC 7 B



SOMMERKAMP TS 280 FM

80 Channels 50 Watts 2m FM Transceiver

From the modern PLL technique benefits our new developed mobile transceiver TS 280 FM for the 2 m amateur, which we can offer at a very competitive price.

Quick and easy change of channel, also with the vehicle in motion: all 80 channels between 144 MHz and 145.975 MHz can be selected in 25 kHz steps. All 10 European repeater channels are offset automatically and shown with correct digital readout. The final amplifier has an input of 75 Watts, there are 40 - 50 Watts at the antenna. For short distance

contacts or for repeater operation, the power can be reduced to only 2 Watts at the flip of a switch. A sensitive protection circuit does away with costly repairs, should there be a badly matched or damaged antenna. As soon as the SWR climbs above a threshold setting, power to the final will be cut off automatically. Receiver sensitivity better than 0.4 uV at 1 Watt AF - power and 30 dB S/N at 5 KHz deviation.

Lighted S-meter, doubling as a relative power-meter on transmission. Jack for external loudspeaker on the back panel. The 8 pin DIN jack permits operation of the loudspeaker/microphone SM 5732, the telephone hand-set TS 1022 with PTT - switch and our 12 - channel selective tone - call system PARROT 76 with automatic answer back. With IF on 10.7 MHz and 455 KHz. The double printboard contains no less than 3 FET's, 7 IC's, 31 transistors and 34 diodes. Delivered with microphone, mounting bracket and all hardware. It will be noted when operating this equipment mobile, that any settings are easy and quickly done without fail.

The Transceiver becomes a full - fledged fixed station with our strong NT 60 power supply.

Dimensions: 58x156x290 mm Weight: 2.3 Kg

SOMMERKAMP TS 206 AT

6 Channels 2 Watts 2m FM Transceiver

Brand-new: our 6 channel handy-talky on 2m FM sporting the well known aluminum die - cast case, developed with the VHF - radio amateur in mind. Frequency coverage 144 MHz to 146 MHz. It comes equipped with the crystals for the frequencies 145.5 MHz (S-20) and 145.55 MHz (S-22). This most attractive, low-cost handy- talky is crystal controlled, its IF is on 10.7 MHz with xtal- filter, MOSFET's in its RF - and mixer sections.

Frequency stability 0.005% between - 20° and + 50° C. Electronic transmit/receive switching. Receiver sensitivity 0.2 uV, transmitting power 2 Watts. Power drain is only 15 mA in "stand by" position. Combined OFF/O.N - switch with volume control, squelch, meter to indicate relative power in transmit mode, doubling as a status - indicator of the batteries, red transmit status light. Jacks to connect: external antenna, 12 V power supply, car battery, battery - charger, earphones (when the latter are inserted, the built - in loudspeaker disconnects automatically). The 8 pin DIN jack permits operation of a telephone hand-set TS 1022, the loudspeaker/microphone SM 5732 and our 12 channel selective tone call system PARROT 76 with automatic answer back.

Contains big battery case for 10 UM3 rechargeable batteries. Delivered with leather case and flexible rubber antenna.

Dimensions: 230x75x40mm Weight: 1 Kg



SOMMERKAMP TS 802

80 Channels 2 Watts FM Transceiver

Another brand-new 80 channel handy transceiver, specially developed for the demanding 2 m VHF amateur. Accurate frequency coverage by PLL-synthesizer from 144.025-146.000 MHz in 25 KHz steps.

Its IF is 10.7 MHz with X-tal filter, MOSFET in RF - and mixer stage. Frequency stability 0.0005% between - 20° and +50°C. With electronic channel selector and switchable automatic reverse scanner, also switchable to searching for occupied frequencies.

Built-in repeater shift for channels R0-9 switchable, tone burst for repeater operation and 1750 Hz tone call. Battery drain on "stand-by" position only 18 mA digital channel indication and electronic receive/transmit switching, 0.5/2 Watt transmitter power selectable by high/low power switch. Receiver sensitivity better than 0.2 uV. Instrument for relative transmitter power and battery power indication.

With combined on-off and volume control knob, squelch. Connector jacks for external antenna, 12 Volt power supply or car battery; charger, earphone (when inserted disconnects loudspeaker automatically). With 8 pin DIN jack our TS 802 operates with the telephone handset TS 1022, loudspeaker-microphone SM 5732 and our 12 channel selective tone call system PARROT 76 with automatic answer back. Big holder for 10 pieces UM 3 or rechargeable batteries. Our TS 802 in the robust and elegant aluminum die-cast is delivered with leather case and flexible rubber-antenna. Frequency range 144-146 MHz, on special request also up to 173 MHz available. Dimensions: 230x75x40mm Weight: 1.5 Kg.



SOMMERKAMP FT 901 DM

Transceiver AM/FM/SSB (USB+LSB) CW/FSK + CB

An ultra-modern transceiver, far ahead of any other comparable type of equipment. Where else can you find a better tuning which does not just 'shift' the IF as it has been done before, but where 2 filters are put on top of each other with the effect that when one filter is put out of tune the bandwidth can be adjusted as narrow or as large as desired. For the suppression of particular interfering signals an additional variable IF notch-filter is used. Audio peak frequency (APF) control, particularly helpful for the CW-fans, provides manual control for peaking the audio circuit on the

desired signal. On the FT 901 DM a Curtis CW electronic keyer is standard provision. The desired frequency is generated in a modern, extremely stable PLL-circuit. Frequency readout is both analog and digital. Features like VOX, semi break-in CW keying with side tone, a modern noise blanker, a speech-compressor with HF-method circuitry, lever switch for 20 dB attenuation of the received signal, receiver/transmitter fine tuning control are all standard outfit. A pair of robust 6146B electronic tubes provide an input power of 200 Watts for the TX final amplifier. The output stage uses toroidal coils and negative feedback circuitry which improve the linearity of the amplifier and harmonic suppression tremendously. Computer-type plug-in circuit boards-are to maintain and adjust-are the characteristic features of a modern design. The power amplifier is protected by an automatic circuit to avoid damage by excessive SWR or long tuning process. All amateur bands from 160 - 10m, entire 11m CB Band between 27 and 28 MHz plus WWW reception as well as operation modes like LSB, USB, FSK, AM, CW and FM. Power supply 110-234 Volts AC and 13.8 V DC. Additional power supplies are not required. Supplied complete with AM and CW crystal filters, FM-unit, electronic keyer, 25 KHz marker oscillator, frequency memory and cooling fan. The front panel is pressure die-cast, for the cabinet strong sheet-metal has been used, resistant to rough handling. Microphone and plugs are delivered with the equipment.

Dimensions: 342x154x324 mm Weight: 18 Kg.

SOMMERKAMP FT 277 ZD

Transceiver AM/SSB (USB+LSB) CW + CB

Developed from the world's most popular Amateur Transceiver and with digital readout. Features all amateur bands from 160m to 10m, (1.8 MHz to 29.9 MHz), 2 fixed channels, CB - band (27 MHz) and WWW time signal reception (indispensable for astronavigation and propagation studies). With variable intermediate frequency from 2.4 KHz to 300 Hz to suppress QRM. Switchable modes AM, SSB (USB+LSB), CW (600Hz/2400 Hz switchable). Input power 180 Watts from two husky 6146B tubes with negative RF-feedback. Receiver sensitivity better than 0.25 uV at 10dB S/N. With RF-speech processor for at least 6 dB gain. Adjustable new noiseblanker, digital frequency readout down to 100 Hz, precision of readout on analog dial 1 KHz, dim-switch to cut down brilliance of LED's and meter-lighting. With PTT, VOX and MOX threshold adjustment. RF - and AF - gain controls, clarifier for receiver or receiver and transmitter, simultaneously controlled by push-buttons. Switches for: AGC, ALC, NB, 10/20 dB attenuator, fixed channels, external VFO, external receiver or transmitter. LED's show status of the two fixed channels. Two eight-pole crystal filters with selectable band width from 2.4 KHz to 300 Hz. Preselector with permeability tuning. Built-in power supply 100 V to 234 V AC. Silent cooling fan for the two final tubes. Adjustable speech-processor. Jacks for: external loudspeaker, VHF-transverter, external receiver (e.g. FR 101) or transmitter, external VFO, monitorscope and antenna tuner. Delivery with AM Filter, accessory connection plugs and with the entire 11m CB Band (27 - 28 MHz) built in.



Dimensions: 342x154x324 mm Weight: 15 Kg.

Accessories for FT 277ZD/FT 901 DM:

- | | |
|----------|--|
| FV 901: | External VFO |
| FTV 901: | Transverter UHF/VHF on Oscar frequencies |
| YO 901: | Monitorscope to control modulation- and signal-quality |
| FC 901: | Antenna tuner for coax- and long wire antennas |
| SP 901: | External loudspeaker |
| FL 2277: | 1.2KW PEP linear amplifier 80 - 10m 110/220 V AC |
| YR 901: | CW Transverter to RTTY or TV, also in reverse mode. |

ACCESSORIES SOMMERKAMP

PARROT 76

12 channel selective tone-call system with automatic answer back



TS 1022 telephone handset

SM 5732

PARROT 76

TS 1022

BL 1/50

NT 30

NT 60

DV 27

DV 27 LC

DVX 27

GPE 27

RA 1608

5/8 144

MOBAT 27

SL12/75

Loudspeaker/microphone with PTT - switch and 8 pin DIN plug, ready to be used on any equipment, fitted with the 8-pin DIN jack.

Physically like SM 5732, however with built-in selective tone - call system for 12 different channels with automatic answer back.

Telephone hand - set with cradle, PTT - switch and plug, fits all transceivers with 8 pin DIN jack.

Wallcharger, fits all handy-talkies

Power supply 110/220 V AC - 12 V/3 Amp DC.

Power supply 110/220 V AC - 12 V/6 Amp DC.

CB car antenna, plastic, top coil complete with coaxcable

CB-mobile antenna, plastic, heavy duty model with center coil, fits DV - base mount, for power up to 400 Watts (for "coffee-warmer" operation).

CB car-antenna, steel, with center coil, complete with coax-cable.

y5/8 11m ground plane, heavy duty model of aluminum, to be mounted on buildings.

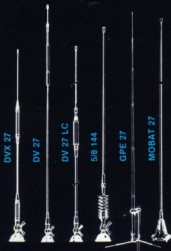
Flexible rubber antenna for handy-talkies TS 5612, TS 5632, 5680... easy mounting

5/8y antenna for 2m VHF.

1/4y CB antenna for plastic boats and trailers.

solar battery charger 12-15 Volts up to 7.5 watts for cars or boats, with protection diode.

Illustration of CB Antennas and Solar Charger on next page.



What is CB-radio?

The "Citizen Band" for everybody - finally licensing has been simplified by postal authorities for portable sets and car transceivers, and for fixed stations. After what may rightfully be called a victory in the USA with over 1 million new CB-operators every month, CB has now become the new, interesting hobby for everyone in Europe as well. With millions of friends everywhere in the world just waiting, you contact immediately someone by CB-radio wherever you may be travelling or living, no matter if you need help for your car or boat or only an information about the nearest restaurant. Why does everybody want to chat with somebody else and how can there be a "CB-boom"? Without doubt, in today's highly industrialised world many people have become lonely: criminality and wrong behaviour are the consequence. CB-equipment, however, has made it easy for everybody to chat with the neighbour around the corner, with somebody on the motorway or maybe even with a person living in a country some 1000 km away.

To industrial and commercial firms as well as to the postal authorities SOMMERKAMP transceivers are well-known since more than 15 years. SOMMERKAMP transceivers provide the solution to all communication problems. The small portable hand-held and mobile transceivers require no technical knowledge to operate and provide immediate radio contact everywhere. They save expenses, time and personnel and eliminate mistakes in transmitting instructions. These services are now available to everyone. Take advantage of our many years' experience: Our first transceiver with postal approval for CB dates back in 1962.

What type of installation do you need?

Car: CB antenna with coaxial cable and plug

Boat: CB boat antenna with coaxial cable and plug

Home: CB home antenna (ground plane) with coaxial cable and plug

Only an expert can do a perfect installation of a home antenna due to eventual power lines. It is very simple to use a balcony antenna, fastened with a screw. Important: The length of all antennas must be perfectly adjusted by means of an SWR-meter. Otherwise most of the HF-energy will be lost in the feedline and not be transmitted. A good antenna is the best HF amplifier and of supreme importance. It is easier to talk across the Atlantic with only 2 watts power but with a properly matched antenna than with 1000 watts power on a bad antenna.



Microphone amplifiers: In every SOMMERKAMP transceiver a microphone amplifier is already built in and therefore we do not recommend any. While transmitting the microphone amplifier has the same effect as a watering can which is connected with a fireman's hose: only one ray hits and 100 miss the target - and disturb the neighbour channels.

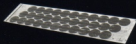
What is SSB? It is the fireman's hose decreased to only one small hole. Result: The electromagnetic waves travel further. Therefore: 10 watts SSB equal 100 watts AM, also because a great part of interferences are cut off.

Linear amplifiers: sure, your signal will be boosted but it is almost impossible to retain a perfect linearity without distortion. We do not recommend these amplifiers as they tend to distort the signal, making it hard to understand.

Which transceivers are permitted to operate? Please ask your local CB-Club or the postal authorities. They will inform you what type of transceivers have obtained postal approval. All PTT - approved sets bear a registration number.

DX: means radio contacts over very long distances - no problem with a well matched antenna. Important: Check your own signal tape-recorded by a friend. Your modulation should sound like bell-chimes and stereo music! A distorted signal will cause everybody overseas to laugh about. Never cut into an existing contact. Look for a clear frequency instead.

Wath is the distance to be obtained? With a precisely adjusted antenna, put up as high in the air as possible, and a sensitive receiver, long distance contacts will be within easy reach. There is no use trying to determine accurately the distance to be achieved with our transceivers. Everyone knows that radio waves travel better in open space than for example in cities between buildings and high-tension lines. Real long distances can be obtained across some 100 kilometers from high mountains or over water. Also, contacts over great distances are possible by ionospheric reflection. Depending on propagation conditions, several 1000 km can be easily bridged. Therefore, be courteous and polite when transmitting, you may be heard thousands of kilometers away.



New: Solar Charger

Your car or boat battery always fully charged with sun light!
Installation: only to fasten.



What is Ham (Amateur) Radio?

The same as CB-radio but with more transmitter power, other frequency bands and mostly SSB, postal licence required. SOMMERKAMP has more than 20 years of experience and delivers amateur and CB transceivers to more than 40 countries. Whether it be a missionary hospital on the Amazon, a lonely oil drilling company in the Sahara or a yacht in the Pacific, our transceivers guarantee a loud signal and a reliable radio contact. Our best reference: whenever you switch to CB and amateur frequency bands, you will hear the loud and clear signals of SOMMERKAMP transceivers!

The world at your fingertips with SOMMERKAMP Amateur - + CB-Transceivers!