

M-490 PLUS

MULTI STANDARD PROGRAMMABLE CB MOBILE TRANSCEIVER

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A new series of state-of-the-art CB (27 MHz) mobile transceivers, with advanced software and hardware design, specifically conceived for Citizen Band operators and for car & truck drivers. 10 bands programmable multi standard circuit design, matching the frequency & operating mode requirements of various countries. A number of unique features makes this radio one of the most advanced and sophisticated mobile CB transceiver in the market. One radio only, ready for use in all the European countries !

Large !

MULTI STANDARD PROGRAMMABLE TECHNOLOGY



- | | | | | | | | |
|---------------|---------------|-------------------|-------------|-----------------|------------|---------------|---------------|
| 10 BANDS | ESP | LOCAL DX | SCAN | DUAL WATCH | LCR | DIGITAL METER | NOISE LIMITER |
| LOCK | EMG CH9/19 | RF GAIN | MIC GAIN | QUICK UP | QUICK DOWN | PA | |
| TRUCK CHANNEL | FOUR MEMORIES | FREQUENCY READOUT | DYNAMIC MIC | EXTRA LARGE LCD | | | |

feature
PACKED
see reverse for full details



INTEK

M-490 PLUS

MULTI STANDARD PROGRAMMABLE CB MOBILE TRANSCEIVER

State-of-the-art CB (27 MHz) mobile transceiver,
with advanced software & hardware design,
specifically conceived for Citizen Band operators and for truck / car drivers

One radio only, ready for use in all the European countries !

Main features :

- MULTI STANDARD CIRCUIT
- 10 BANDS PROGRAMMABLE
- EXTRA LARGE BACKLIGHTED LCD
- ESP "COMPANDER" RX/TX MODULATION PROCESSOR (COMPRESSOR-EXPANDER)
- FOUR MEMORY CHANNELS
- ONE-TOUCH QUICK ACCESS TO A PROGRAMMABLE "TRUCK" CHANNEL
- AUTO SCAN
- DUAL WATCH
- HIGH QUALITY DYNAMIC MICROPHONE WITH UP/DOWN AND LOCK KEYS
- AUTOMATIC NOISE LIMITER
- LOCAL/DX RF ATTENUATOR
- CHANNEL/FREQUENCY READOUT
- QUICK UP / QUICK DOWN KEYS
- PA FUNCTION
- RF GAIN CONTROL
- MIC GAIN CONTROL
- EMG
- DIGITAL 10 BAR S/R/F METER

LOC / DX
RF Attenuator to be used in case of very strong signals from local transmitters reduces distortion and intermodulation.

ANL
Automatic Noise Limiter reduces electrical and electro-magnetic interferences and noise.

DYNAMIC MICROPHONE
High quality dynamic microphone, with channel UP/DN and Lock keys.

OFF / VOL
OFF / Volume control knob.



BACKLIGHTED LCD (Display)
Extra large size backlighted LCD provides full information on each enabled function, such as selected band, channel number or full frequency readout, digital bar S/R/F Meter, memory channel or truck channel, operating mode (AM/FM), etc.

TX / RX & ESP LED
Dual color red/green LED confirms if transceiver is in receiving (green) or transmitting (red) mode. ESP LED confirms when ESP is active.

AM / FM MODE
It selects the operating mode AM/FM (only if allowed by the programmed band).

SCAN
Automatic scanning of channels in use.

LCR
Quick recall of the last used channel.

M1/M2/M3/M4
Four memory channels are programmable and can be quickly recalled.

DW (Dual Watch)
Automatic monitoring of 2 programmed channels.

F (Function)
Function key is used to select function in case of dual-function keys.

CHANNEL
Rotary soft-touch channel knob selects the operating channel.

TRUCK
One-touch immediate access to a programmable "Truck" channel, this is a unique and very convenient feature for truck drivers.

ESP (Speech Processor)
The ESP is a new and exclusive feature. It activates a microprocessor controlled "COMPANDER" (Compressor/Expander), which compresses modulation in TX mode and expands modulation in RX mode, in order to obtain a stronger and better modulation and audio level.

EMG (Emergency Channel)
One-touch quick access to the preset emergency channel.

MIC GAIN
Mic gain control to set the desired microphone gain.

Q.UP / Q.DN (Quick Up / Quick Down)
Quick channel selection, at each press of the key the channel number moves 10 channels up or down.

PA / SQL
Squelch control knob and PA (Public Address) switch.

RF GAIN
RF gain control to set the desired receiver gain.

MULTI STANDARD PROGRAMMABLE TECHNOLOGY

SPECIFICATIONS

GENERAL

Channels Refer to programmed band
Modes (AM, FM) Refer to programmed band
Operating Temp. -10°/+55°C
DC Input Voltage 13.2Vdc ±15%
Size 180(L) x 50(H) x 153(D) mm
Weight 1 kg

RECEIVER

System CPU Controlled Double Conversion Super Heterodyne
IF 1° 10.695 MHz / 2° 455 KHz
Sensitivity 0.5µV for 20dB SINAD (FM)
0.5µV for 20dB SINAD (AM)
@10% THD 2.5W at 8 Ohm
Audio Output Power
Audio Distorsion <8% at 1 KHz
Image Rejection 65dB
Adjacent Ch. Rejec. 65dB
Signal/Noise Ratio 45dB
Current Drain 250mA (stand-by)

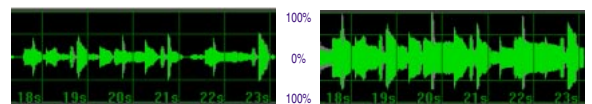
TRANSMITTER

System CPU Controlled PLL Synthesizer
Max Output Power 4W at 13.2Vdc
Modulation AM (from 85% to 95%)
FM (1.8 KHz ±0.2 KHz)
Output Impedanced 50 Ohm unbalanced
Current Drain 1100 mA (at no modulation)

FREQUENCY BAND / MODE PROGRAM

CE CEPT 40CH FM 4W (DEFAULT)
IO ITALY 40CH AM / FM 4W
I2 ITALY 36CH AM / FM 4W
DE GERMANY 80CH FM 4W / 12CH AM 1W
D2 GERMANY 40CH FM 4W / 12CH AM 1W
EU EUROPE 40CH FM 4W / 40CH AM 1W
SP SPAIN 40CH AM / FM 4W
FR FRANCE 40CH FM 4W / 40CH AM 1W
UK ENGLAND 40CH + CEPT 40CH FM 4W
PL POLAND 40CH AM / FM 4W (-5 KHz)

ESP "COMPANDER" RX / TX AUDIO SPEECH PROCESSOR



Modulation without ESP

Modulation with ESP

This new INTEK CB (27 MHz) mobile two way radio includes the new ESP "COMPANDER". The meaning of "COMPANDER" is Compressor-Expander. This microprocessor controlled audio Speech Processor works as a modulation Compressor in transmission and as a modulation Expander in reception. ESP provides a stronger and more clear and readable audio signal. It is a great help in noisy areas and in case of long distance communication and weak signals. The efficiency of ESP is even higher when communicating with another radio having the same ESP system.

IMPORTANT ! The radio is factory programmed on the CE frequency band (CEPT 40CH FM 4W). This product is subject to national restrictions. Before operating this radio, please check that the frequency band has been correctly programmed according to the country where radio is used.

E. & O. E.

RECOMMENDED BY INTEK !



LEADER IN CB 27 MHz
CAR & TRUCK MOBILE ANTENNA



CE 0678

CH

INTEK