

# M-490 PLUS

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

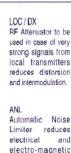
## MULTI STANDARD PROGRAMMABLE CB MOBILE TRANSCEIVER

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

#### Main features:

- MULTI STANDARD CIRCUIT
- 10 BANDS PROGRAMMARI F
- 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/RF METER





interferences and

noise.

DYNAMIC

with: channel

MICROPHONE

High quality

dvnamic

microphone,

UP/DN and

Lock keys.

OFF / VOL

OFF / Volume

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/RF Meter, memory channel or truck channel, operating mode (AM/FM), etc.

BACKLIGHTED LCD (Display)

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

SCAN LCR Automatic Quick recall scanning of of the last u s e d channels in channel. use

M1/M2/M3/M4 Four memory channels programmable can be and 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 operating channel

TRUCK immediate access to a programmable 'Truck" channel, this is a unique and very convenient



control knob PA / SQL Squelch control knob

and

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

PA (Public Address) switch.

O.UP / O.DN (Quick Up / Quick Down) channel

MIC GAIN

Mic gain control

to set the desired

microphone gain.

Quick selection, at each press of the key the channel number moves 10 channels up or down

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

The ESP is a new and exclusive feature. 1t activates microprocessor controlled "COMPANDER" (Compressor/ Expander), which compresses modulation in TX mode and expands modulation in RX mode in order to obtain a stronger and

hetter modulation and audio level

ESP (Speech Processor)

One-touch

feature for truck drivers.

## **SPECIFICATIONS**

## GENERAL

Channels Modes (AM, FM) Operating Temp. DC Input Voltage Size

Refer to programmed band Refer to programmed band -10°/+55°C

13.2Vdc ±15%

180(L) x 50(H) x 153(D) mm

Weight

RECEIVER **CPU Controlled Double** System Conversion Super

Heterodyne 1° 10.695 MHz / 2° 455 KHz IF 0.5uV for 20dB SINAD (FM) Sensitivity 0.5µV for 20dB SINAD (AM)

Audio Output Power @10% THD 2.5W at 8 Ohm

Audio Distorsion <8% at 1 KHz Image Rejection 65dB Adiacent Ch. Reiec. 65dB Signal/Noise Ratio 45dB

Current Drain 250mA (stand-by)

#### TRANSMITTER

CPU Controlled PLL System 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 1100 mA (at no modulation) Current Drain

#### FREQUENCY BAND / MODE PROGRAM

CEPT 40CH FM 4W (DEFAULT) CE 10 ITALY 40CH AM / FM 4W 12 ITALY 36CH AM / FM 4W

DE GERMANY 80CH FM 4W / 12CH AM 1W GERMANY 40CH FM 4W / 12CH AM 1W no

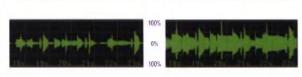
EU EUROPE 40CH FM 4W / 40CH AM 1W

SP SPAIN 40CH AM / FM 4W

FR FRANCE 40CH FM 4W / 40CH AM 1W UK ENGLAND 40CH + CEPT 40CH FM 4W

PI 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** 





C€ 0678 ①



