INTEK®

CBM-450

27MHz PROGRAMMABLE MULTI-STANDARD MOBILE CB MONITOR - ROAD WATCHER
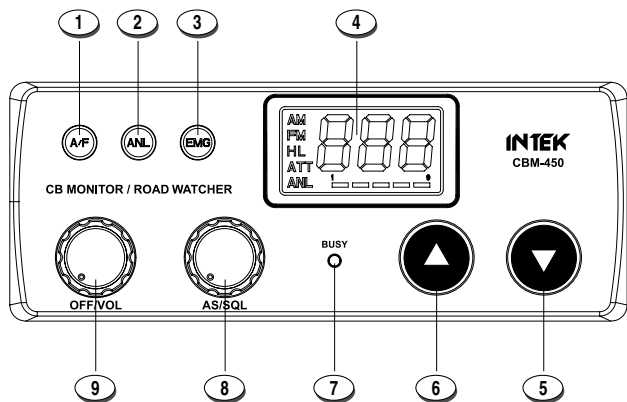
Thank you for purchasing this new CB Monitor receiver ! You will be pleased to discover the multiple advantages of been informed of "What's going on the road" while you are driving you vehicle, by listening to the interesting radio communication among truck drivers and other Citizen Band users. A great way to improve your traveling and driving confort !

Please carefully read this owner's manual before using the product. Before using this receiver, please check that the radio has been programmed on the frequency bands used in the country where the product is used. If not, please change the frequency band programming, as it is described in this owner's manual. This receiver is factory pre-programmed on the CE European frequency band (CEPT 40CH FM).

CONTENT OF THE PACKAGING

Please check that all the following items are contained in the packaging :

- main unit (receiver)
- car mounting bracket with accessories (hardware, knobs, etc.)
- mobile antenna with magnet base and connector
- owner's manual

FRONT PANEL

1. A/F Key (AM/FM selection)
The AM/FM operating mode selection is possible only when both the AM and FM modes are available in the selected band, otherwise the AM/FM selection is not possible.

2. ANL Key (Automatic Noise Limiter)
Enable the ANL (Automatic Noise Limiter) function to reduce electric or electromagnetic noise or interference on the used channel. The ANL icon (D) is lighted to confirm that the ANL function is enabled. Press again the ANL key (2) to disable the function.
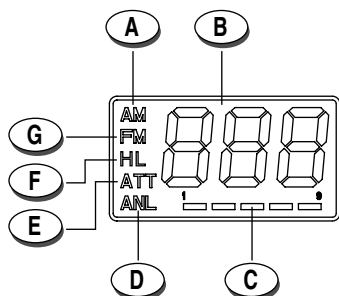
3. EMG key (Emergency Channels)
Press to quickly access to the two pre-programmed emergency channels (CH9 / CH19). Each time this key is pressed, radio will select CH9, then CH19, then again the normal operating channel. CH9 and CH19 are the two most used channels by truck drivers.

4. LCD Display
Large size LCD display with blue color backlight function for best readability in darkness. It indicates the operating channel number, the operating mode, all the programmed settings and all the enabled functions.

LCD DISPLAY

A. AM Icon. The icon (A) is lighted when radio is set to the AM operating mode.

B. Channel Number. It shows the channel number or the frequency band ID code.

C. Digital Signal Meter. 5-bar Signal Meter (C) indicates the strength of the received signal (from S0 to S9+30) in the receive mode.

D. ANL Icon. The Icon (D) is lighted when the ANL (Automatic Noise Limiter) is enabled.

E. HL Icon. Not available on this model.

F. ATT Icon. Not available on this model.

G. FM Icon. The icon (G) is lighted when radio is set to the FM operating mode.

5-6. Down / Up Keys. Press to select the operating channel. By keeping a key pressed, the quick channel selection mode will be enabled.

7. BUSY Indicator. This green color LED indicator is lighted when radio is receiving one communication and the squelch is open (radio is not in the automatic mute mode).

8. AS/SQUELCH Control
SQUELCH CONTROL (SQUELCH manual adjustment)
The SQUELCH control allows to silent the receiver by cutting the background noise, when no signals are received. Turn the knob clockwise until the background noise is cut. Turn the knob counter clockwise (SQUELCH opening) in order to listen to the weakest signals.
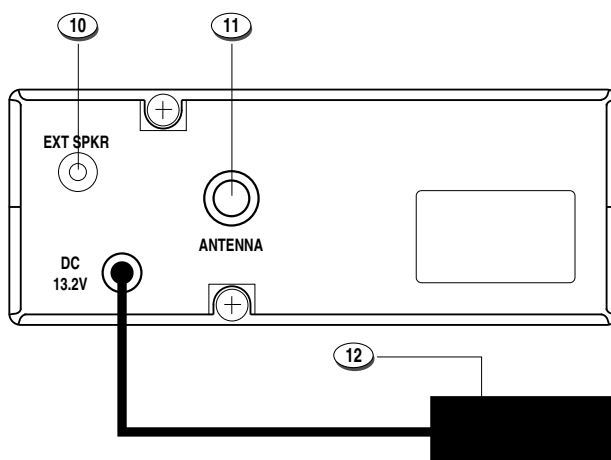AS CONTROL (SQUELCH fixed setting)
The AS function allows to automatically silent the receiver, avoding the SQUELCH manual adjustment. A fixed SQUELCH threshold is factory pre-set. To enable the fixed SQUELCH function, turn the knob fully counter clockwise to the AS position, until a click noise is heard.

9. OFF / VOLUME Control
Switches radio ON and OFF and adjust the receiver volume to the desired level. To adjust the receiver volume if no signals are received on the channel, open the SQUELCH and then adjust the receiver volume using the background noise as a reference.

REAR PANEL

10. EXT (External Speaker) Jack. Connection for external speaker (optional).

11. ANTENNA Connector. Antenna connector. Refer to the section INSTALLATION.

12. 13.2VDC POWER CORD. 13.2VDC power cord input.
The power cord is complete with lighter adaptor plug.

INSTALLATION
Before installing the main unit in the vehicle, check and select the most convenient location, in order that the radio will be easy to reach and comfortable to operate, without disturbing or interfering with the vehicle drive. Use the supplied bracket and hardware to install the radio. The bracket screws must be well tightened in order not to become loosen with the vehicle vibrations. The car mounting bracket can be installed over or below the radio and the radio may be inclined as desired according to the specific type of installation (under dashboard or track cabin roof installation).

Installation of the Main Unit
Before connecting the radio to the vehicle electric system, make sure that radio is switched off, with the OFF/VOLUME (9) knob completely turned counter clockwise at OFF position.
Connect the lighter adaptor plug (12) to the 12VDC socket of the vehicle. Fuse is located inside the lighter adaptor plug. To replace the fuse unscrew the cap of the plug, remove the fuse and the spring then reinstall all parts by first inserting the spring and then the new fuse.

Installing and connecting the supplied mobile Magnet Antenna

A 27 MHz mobile antenna with magnet base and 4m RG-58/U is included in the kit. Please pay attention to correctly placing the magnet antenna on the vehicle top. The magnet antenna must be firmly attached to the vehicle metal body. Before attaching the antenna on the car body, carefully clean both the bottom side of the antenna base and the car body surface. Connect the antenna connector (D) to the antenna outlet (11) located on the rear side of the radio. Antenna must be usually placed on the highest part of the vehicle, free from nearby metal parts and as far as possible from any possible source of electric or electromagnetic noice. The antenna cable must not be damaged in its way to the radio.

Parts description

A. Whip
Whip with protective rubber cup.

B. Magnet base
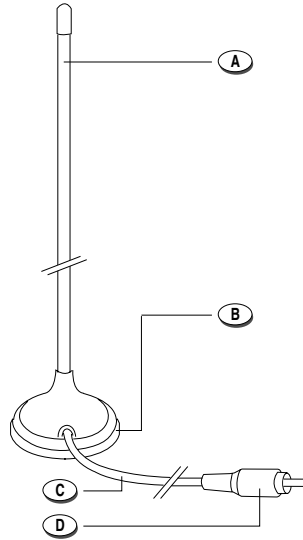Antenna magnet base to be placed on any iron or steel surface, with no need to drill any hole on the vehicle body.

C. RG-58/U Cable
RG-58/U cable, 4m long.

D. RF Connector
RCA connector.
Connect to the antenna outlet (11), located on the rear side of the radio.

WARNING !!!

The Magnet Antenna included in this set has been designed to withstand a vehicle speed of maximum 130 km/h (no front wind condition). Do not exceed this speed when the antenna is installed, to prevent antenna from being torn away from the vehicle and causing possible damage to other drivers !

FREQUENCY BANDS TABLE

The receiver INTEK CBM-450 includes an advanced multi-standard programmable circuit, which allows to program different frequency bands, specifications and operating modes, in conformity with the regulations in the country where the product is used. 9 programmable frequency bands are available, as per the below table :

FREQUENCY BAND ID CODE	COUNTRY	SPECIFICATIONS (Channels, Operating Modes)
E1	ITALY/SPAIN	40CH AM / FM
I2	ITALY	36CH AM / FM
dE	GERMANY	80CH FM - 12CH AM
d2	GERMANY	40CH FM - 12CH AM
EU	EUROPE/FRANCE	40CH FM - 40CH AM
CE	CEPT	40CH FM
U	UK	40CH FM UK FREQUENCIES 40CH FM CEPT FREQUENCIES
PL	POLAND	40CH AM / FM POLISH FREQUENCIES
PD	POLAND	40CH AM / FM POLISH FREQUENCIES

FREQUENCY BAND SELECTION / PROGRAMMING

The receiver has to be programmed on the CB frequency band used in the country where the product is used. When radio is switched ON, the current programmed frequency band code will be displayed (blinking) for about 3 seconds.
To program a different frequency band, proceed as follows :

1) Turn OFF the radio.
2) Press and keep pressed the UP key (6), then turn ON the radio using the OFF/VOLUME knob (9).
3) The current frequency band code (B) will blink on the LCD display (4).
4) Now select the new desired frequency band code by pressing the UP (6) or DN (5) key.
5) Wait for about 5 seconds to confirm and store the new selected frequency band code.

UK/CE CHANNELS SELECTION (FREQUENCY BAND "U")
The "U" band (UK/CE band) includes both UK and CE channels, this band is for use in the UK. If a UK channel is selected, the display (4) will show the channel number (B) and the indication "U". If a CEPT channel is selected the display (4) will show the channel number (B) and the indication "C".

SPECIFICATIONS

General

Channels	Refer to the frequency bands table
Frequency range	27 MHz Citizen Band
Frequency control	P.L.L.
Operating temperature	-10°/+55°C
DC input voltage	13.2Vdc ±15%
Size / Weight	115 (L) x 43 (H) x 165 (D) mm / 350 gr.

Receiver

System	Double conversion, CPU controlled super-heterodine
IF	1° 10.695 MHz / 2° 455 KHz
Sensitivity	0.5µV
Audio output	2.5W - 8% distortion at 1 KHz
Current drain	350mA (stand-by)

USER INFORMATION

In accordance with art. 13 of the Legislative Decree of 25th July 2005, no. 15 "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, relative to reduction of the use of hazardous substances in electrical and electronic equipment, in addition to waste disposal".

The crossed bin symbol shown on the equipment indicates that at the end of its working life the product must be collected separately from other waste.
The user must therefore take the above equipment to the appropriate differentiated collection centres for electronic and electro technical waste, or return it to the dealer when purchasing a new appliance of equivalent type, in a ratio of one to one.

Appropriate differentiated waste collection for subsequent recycling, treatment and environment-friendly disposal of the discarded equipment helps to prevent possible negative environmental and health effects and encourages recycling of the component materials of the equipment.

Illegal disposal of the product by the user will be punished by application of the administrative fines provided for by the legislative decree no. 22/1997 (article 50 and following of the legislative decree no. 22/1997).

DECLARATION OF CONFORMITY

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With the present declaration, we certify that the following products :

INTEK CBM-450

comply with all the technical regulations applicable to the above mentioned products in accordance with the EC Directives 2006/95/EC, 2004/108/EC, 99/5/EC.

Type of product : CB Receiver

Details of applied standards : EN 300 433-1/-2, EN 300 135-1/-2
EN 301 489-1, EN 301 489-13
EN 60065

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Segrate, 19/12/2011 dr. Vittorio Zanetti
(General Manager)