

*TR-710*  
**MULTI USE**  
*Airband Transceiver*

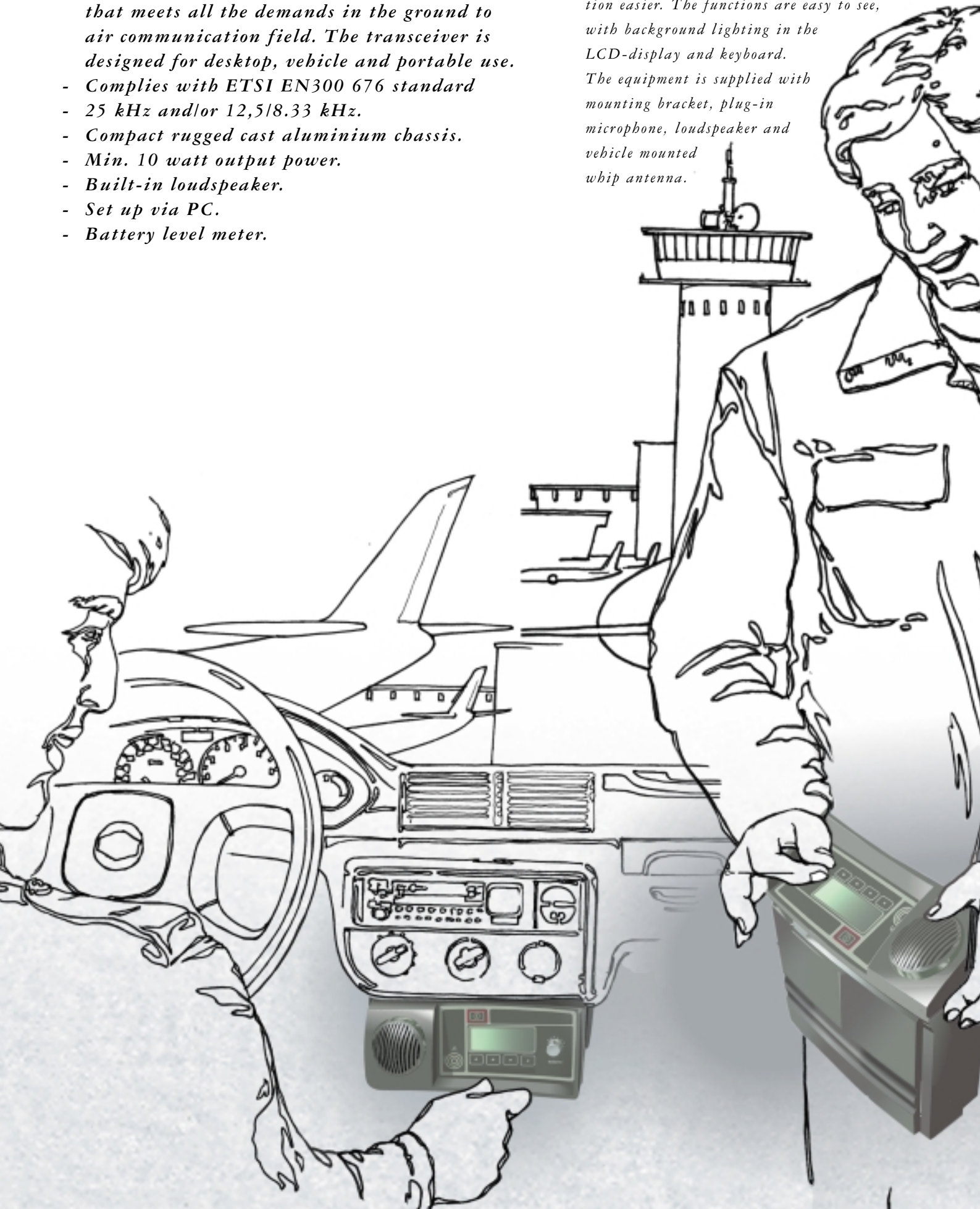


## *TR-710 Multi use airband VHF transceiver*

- *Solid state and high performance quality radio that meets all the demands in the ground to air communication field. The transceiver is designed for desktop, vehicle and portable use.*
- *Complies with ETSI EN300 676 standard*
- *25 kHz and/or 12,5/8.33 kHz.*
- *Compact rugged cast aluminium chassis.*
- *Min. 10 watt output power.*
- *Built-in loudspeaker.*
- *Set up via PC.*
- *Battery level meter.*

## *Mobile unit*

*The compact design facilitates simple vehicle installation. With the new TR-710 transceiver we here made vehicle to air communication easier. The functions are easy to see, with background lighting in the LCD-display and keyboard. The equipment is supplied with mounting bracket, plug-in microphone, loudspeaker and vehicle mounted whip antenna.*



## *Manpack unit*

*The TR-710 transceiver is the smallest and lightest manpack radios in the market. All the functions are easily controlled via a graphical display. The radio can be carried in a shoulder-stropped bag. The rugged package is submersible and withstands the harshest environmental conditions. The batteries have a 6 hour duration in combined use: Transmitting/receiving; (10/90).*

## *Desktop unit*

*For use as a desktop unit, the TR-710 is a good choice. The radio takes limited space, and is easy to move around. The radio has the possibility of 60 preselected channels. The BITE (Built In Test Equipment) is always keeping an update of the function of both radio and antenna. Operates on AC mains or DC mains. The radio has built-in sound with possibilities for external loudspeakers.*



# TECHNICAL SPECIFICATIONS TR-710

## General

Frequency range:	118-137 MHz
Channel separation:	25 kHz / 8.33 kHz (selectable)
Frequency stability:	± 1.5ppm, (±1 ppm 0-40°C)
Frequency selection:	25/12,5/8.33 kHz steps
Preset channels:	Max. 64
Type of modulation:	AM (A3E)
Audio response:	25kHz: +1/-3 dB rel.to 1 kHz, 300-3400 Hz. 8.33kHz: +1/-3 dB rel.to 1 kHz, 300-2500 Hz, -25 dB at 3200 Hz
Audio output:	Built in speaker: > 2 W Headphone: 32Ω/100mW. Min. 8Ω. External speaker: > 2W / 4Ω. Min 4Ω.
Modulation input:	Mic input: Dynamic. Sensitivity 2.5m V
Settings:	Squelch level adjustable from front panel Audio level adjustable from front panel
Antenna connector:	50Ω, TNC-connector.
Operating temperature:	-20 to +55°C.
Storage temperature:	-20 to +70°C.
Operating voltage:	230/115 VAC ± 10% (eksternal power) 11-15VDC, 13.7VDC nominal. Output power is reduced at lower voltages.
Power consumption:	10W, 80% modulation: < 50VA
Battery package:	12.4V, app. 6 hours of operation with 10% duty cycle.

## Receiver section

Sensitivity:	10 dB SINAD at 1μVpd, 30% modulation. Weighted to ITU-T.
Squelch:	Adjustable from min. 1μV pd, to 25μV pd. Hysteresis: < 3 dB. Opening/closing: < 50 ms
THD:	< 5%, 90% mod., 1 mV, 1kHz
S/N ratio:	>40dB, 100μV, 30%, 1kHz
Adjacent channel selectivity:	>65dB 25kHz/>60dB 8.33 kHz
Cross modulation rejection:	>70dB, >100kHz frequency offset
Blocking:	>80dB, >1MHz frequency offset
Spurious response immunity:	>70dB
Intermodulation immunity:	>70 dB rel 1μV pd, 2 interfering signals > 100kHz offset from receiving frequency
Image frequency rejection:	>100dB
If rejection:	>100dB
Permissible input level:	5V EMF
AGC:	3dB from - 107 to + 5dB input signal. Attach time: >50ms Decay time: > 200ms
Audio AGC:	< 1 dB 30% - 90% modulation. Software switchable.

## Transmitter section

Modulation:	AM up to 90%. Modulation depth adjustable from front panel and remote.
Harmonic emission:	>80 dBc.
Standing wave ratio:	1 : infinity Output is reduced automatically with severe mismatch
Output power:	10W. Adjustable. (40WPEP) ± 1 dB 0 - 40°C + 2 - 3 dB -20 -55°C
Keying time:	<20 msec.
Release time:	<10 msec.
Keying:	Mic connector
LF compression (VGOAD):	30dB with less than 3 dB change in modulation level.
Limiting:	Limiting amplifier prevents modulation over 95%.
Distortion:	Less than 5% at 90% modulation
Hum and noise level:	Better than 40dB below at 90% modulation.

JOTRON electronics a.s reserves the right to change the design and/or specifications at any time without prior notice.



CONTACT INFORMATION:  
JOTRON electronics a.s. P.O.Box 54, 3280 Tjodalyng, Norway  
Phone: +47 33 13 97 00, Fax: + 47 33 12 67 80  
Email: salesair@jotron.com Website: www.jotron.com