

# Maritime and Energy

Product catalogue





# Introduction

**Jotron offers an extensive and flexible range of safety products within GMDSS, AIS and lights. The Jotron GMDSS product group and the AIS Class A transponder, have been carefully designed and built for harsh maritime and offshore environments. The Jotron product portfolio also includes a range of marking lights, a personal strobe light and an emergency VHF AM radio.**

Jotron has years of experience in developing and manufacturing high quality radios for safety communication between coastal stations, ships and offshore installations - and for radio communication between offshore installations and helicopters. Jotron Ricochet is a synchronised recording and replay system for aviation and marine safety. The Ricochet SmartOil system has been developed exclusively to record small offshore air traffic control operations.

## Tron 60S/GPS

**Tron 60S/GPS is a small, compact and sealed EPIRB with an antenna mounted LED for increased visibility.**

- Supplied with either a float-free or manual bracket
- Operates on the COSPAS-SARSAT frequency (406 MHz). Identification and positioning via satellite. Also transmits on the air traffic emergency frequency (121.5 MHz) for homing
- 5 year warranty from factory
- Service stations worldwide
- Complies with IMO and SOLAS regulations and is Anatel, CCS, FCC, IC, MED and RMRS approved



## Tron 40S MkII

**Tron 40S MkII is a compact satellite EPIRB with float-free bracket. Tron 40S MkII has antenna mounted LED for increased visibility and is designed with flexible mounting for fast and easy service and maintenance.**

- Available with an enhanced float-free heating bracket developed to offer optimized protection for temperature challenging conditions
- Operates on the COSPAS-SARSAT frequency (406 MHz). Identification and positioning via satellite
- Also transmits on the air traffic emergency frequency (121.5 MHz) for homing
- 5 year warranty from factory
- Service stations worldwide
- Complies with IMO/SOLAS/GMDSS regulations and is Anatel, CCS, FCC, IC, MED, RMRS and RRR approved



## Tron AIS-SART

**Tron AIS-SART is a GMDSS search and rescue transmitter. It is designed for use during search and rescue operations, providing exact location specifics with GPS precision.**

- Position updating (per minute)
- VHF signals are transmitted on AIS Channel A and B
- 5 year warranty from factory
- Service stations worldwide
- Complies with IMO/SOLAS/GMDSS regulations and is Anatel, CCS, FCC and MED approved



## Tron SART20

**Tron SART20 is a GMDSS radar transponder (9 GHz) designed for use during search and rescue operations. The exact location is supplied based on a distress level appearing on the radar X-band display of nearby ships, SAR vessels and aircrafts.**

- 5 year warranty from factory
- Service stations worldwide
- Complies with IMO/SOLAS/GMDSS regulations and is Anatel, CCS, FCC, IC, MED, RMRS and RRR approved



## Tron 40VDR Float-free capsule

**Tron 40VDR Float-free capsule is a combined COSPAS-SARSAT/MED approved EPIRB and a float-free storage medium.**

The separate VDR storage module contains a standardized memory capacity at 64 GB. Tron 40VDR Float-free capsule is available with an enhanced float-free heating bracket developed to offer optimized protection for temperature challenging conditions. Tron 40VDR Float-free capsule complies to the latest VDR performance standards IMO MSC.333 (90), IEC61996-1 Ed.2 and IEC61097-2.



## Tron TR30 GMDSS and Maritime VHF radio

**Tron TR30 GMDSS and Maritime VHF Radio is an innovated “two-in-one” radio, which gives the user the opportunity to access both standard GMDSS simplex channels and full maritime duplex channels.**

- Floating GMDSS and maritime VHF radio
- Full duplex channels accessed with rechargeable battery
- Preset emergency mode when connected to primary battery
- Excellent microphone noise cancelling
- Waterproof accessories

- Complies with IMO/SOLAS/GMDSS regulations and is Anatel, CCS, RMRS, RED, IC, FCC and MED approved



Charger



Emergency battery



Rechargeable battery



## Tron TR30 AIR Emergency VHF AM radio

**Tron TR30 AIR Emergency VHF AM radio is the only approved emergency VHF AM radio in compliance with SOLAS 74 reg. IV/7 MSC 80 (70).**

- Required by:
- SOLAS passenger vessels
  - Part of the MODU fleet (Mobile Offshore Drilling Units)
  - Polar Coded vessels
- Features:
- User-friendly design

- Optimized sound quality, noise cancelling microphone
- Waterproof and floating with either battery, IP67
- FCC, CE, RED, MED-B, RMRS and ANATEL approved



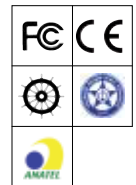
Radio holder



Emergency battery



Test battery



## Tron AIS TR-8000 MkII Class A

**This enhanced AIS is approved for use on inland waterways and complies with new Bridge Alert Management (BAM) standards. Tron AIS TR-8000 MkII has a separate display and transceiver unit with a compact design for easy installation.**

- Complies with BAM standards (IEC 62923-1:2018, IEC 62923-2:2018)
- Supports new requirements for AIS Class A (IEC 61993-2:2018)
- 7” high-resolution touch screen, IP54

- Dual display solution
- External interface cables are connected inside transponder unit
- Simple installation and easy retrofit
- FCC and MED approved



## Tron ML-series

The Tron ML-series has a user-friendly module-based construction, making all products easy to service and repair. The series has high intensity LEDs which can be activated through programming of:

- Light-intensity
- Flashing-rate
- Synchronization (and master/slave)
- Daylight switch (with adjustable ambient light level for ON/OFF)
- Tron ML-100 is powered by 3 Alkaline D battery cells, total of 4.5 VDC
- Tron ML-200 is powered by a special high capacity battery pack at 4.5 VDC
- Tron ML-300 uses external 10-27 VDC
- Tron ML-100: NATO Stock Number (NSN) 6230251614313
- Tron ML-300: NATO Stock Number (NSN) 6220251209988
- CE approved



Tron ML-100    Tron ML-200    Tron ML-300

## AQ-MkII

AQ-4 MkII is a multipurpose marking and distress personal strobelight. It is designed for use in extreme maritime and onshore environments. AQ-4 MkII is developed with high intensity LED. By using the two-way switch, flashing or fixed light can be activated.

- Waterproof down to 500 meters
- NATO Stock Number (NSN): 6230251387110
- CE approved



## Helicopter communication

Jotron's VHF digital radios are intended for rack mounting at airports as well as on-board ships, oilrigs and helidecks. This radio is reliable, easy to operate and offers safe and easy ground to air communication.

- Excellent RF performance in congested areas
- Advanced digital signal processing (DSP)
- Remote control through Ethernet
- Easy set-up and control
- AM and VDL mode 2 operation
- Compact design
- In-band signalling for PTT and squelch
- Continuous duty cycle
- Offset carrier
- VoIP according to ED-137
- Start-up time < 10 seconds
- Parallel operation (analogue and VoIP interfaces)



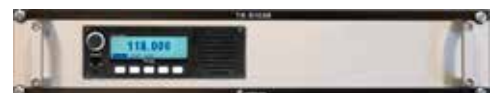
TR-7750 VHF radio

**TR-910 Multipurpose VHF Airband Radio is a lightweight, robust and portable multiTR-910 Multipurpose VHF Airband Radio is a lightweight, robust and portable multipurpose transceiver based on the same platform as the TR-7750. This versatile radio can be set in a desktop or carried in a bag. It can be used as a last resort radio or even as the main radio in e.g. helidecks and other areas where portability is a key factor.**

TR-910 Offshore Radio includes a standard DIN-flange for console mounting. Custom made flanges are available on request. The radio integrates easily with all Jotron Ricochet recorder systems including SmartOil. TR-910 Subrack Radio is available for installation into existing 19 inch equipment racks or control room consoles. The radio is approved according to ETSI, FCC and marine standard for offshore.



TR-910 Offshore Radio



TR-910 Subrack Radio

## Coast to ship communication

The VHF Coastal radio is for coastal stations and offshore installations requiring high quality FM voice and digital selective calling (DSC). The radio is intended for use primarily as a coastal station providing communication between coast and ships.

Jotron radios have a worldwide reputation for outstanding performance in harsh environmental conditions. The mechanical design of the VHF Coastal radio transceiver is based on the well proven Jotron VHF and UHF radios.



TR-7750C radio

## Radio remote controller

RRC-7700 is a touch screen VoIP based remote system that operates multiple transceivers from a single remote position.

RRC-7700 is a proven, cost effective, module-based solution with a wide range of applications. It accommodates both small and medium sized airports, emergency systems, last resort solutions, portable shelters, ports and towers. The various mounting arrangements make the system highly scalable and flexible with regards to installation options.



## Aviation and marine safety recording

Ricochet Safe Maritime ATC Recorder Technology - Offshore Industrial Level (SmartOil) is designed for small onshore and offshore ATC operations.

SmartOil records up to 8 analogue audio channels, 22 digital audio channels via VoIP (ED-137) and 3 CCTV cameras. The recorder allows an operator to install, operate, maintain and replay all recorded data. Replay of one or more channels is done by a simple click. At least 31 days of recorded data can be accessed online.

Ricochet SmartOil is tested, verified and integrates easily with Jotron radios.



**NORWAY / HEADQUARTERS**

Jotron AS  
Ringdalskogen 8  
3270 Larvik, Norway  
Tel: +47 33 13 97 00

**SINGAPORE**

Jotron Asia Pte. Ltd.  
10 Ubi Crescent, Ubi Techpark  
Lobby B, #05-11/12, Singapore 408564  
Tel: +65 65 42 63 50

**USA**

Jotron USA, Inc  
6300 Rothway Street, Suite C  
Houston, TX 77040, USA  
Tel: +1 713 268 1061

**UK**

Jotron UK Ltd.  
Crosland Park, Cramlington  
NE23 1LA, UK  
Tel: +44 1670 712000

**CHINA**

Norway Jotron AS Beijing  
Representative Office (ATC business)  
No. 1204 room, building D  
Tiejian plaza, Chaoyang district Beijing  
100012 China  
Tel: +86 10 5619 6464

**[sales@jotron.com](mailto:sales@jotron.com)**