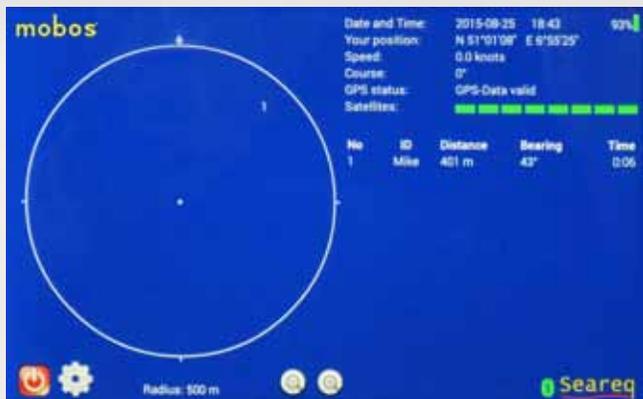


**"There is Mike, for sure:
401 meters ahead, course 43°!"**



All data at a glance and easy to understand even under stress — the clear **MOBOS®-Graph**.

IMMEDIATE RESCUE INSTEAD OF NERVE-RACKING SEARCH: MOBOS®-SYSTEM!

MOBOS® is an autonomous Man-Over-Board-System providing a prompt and self-contained rescue operation of the MOB.

It neither needs support of SAR nor of external technologies such as GMDSS (Global Maritime Distress Safety System), Marine Radio (VHF) and AIS!

HELP YOURSELF!

MOBOS®-System consists of 2 units, both are supported by GPS and a license free radio frequency:

- + **MOBOS®-Beacon** attached to the person,
- + **MOBOS®-Receiver** aboard the boat.

In case of MOB **MOBOS®-Beacon** relays its GPS data *directly* to the **MOBOS®-Receiver**. Depending on the height of the radio receiving antenna alerts can be received from a distances of up to **5.6 NM** (10 km).

Using its own GPS position and the received GPS data from the **MOBOS®-Beacons** the **MOBOS®-Receiver MRX-S** then determines the exact distance and bearing from the boat to the person overboard!

This life-saving information is displayed as an easy understandable graph on a commercially available Tablet PC (Android).

THE KEY FOR A SPEEDY RESCUE!

Safety has a name:

Seareq

Safety and Rescue Equipment

Technologie Park, Haus 8
Friedrich-Ebert-Str. 75
51429 Bergisch Gladbach
GERMANY

T: +49 (0)2205 - 91 22 26
F: +49 (0)2205 - 91 22 70
@: info@seareq.de
I: www.seareq.de

ENGINEERING SAFETY

Made in Germany

mobos®

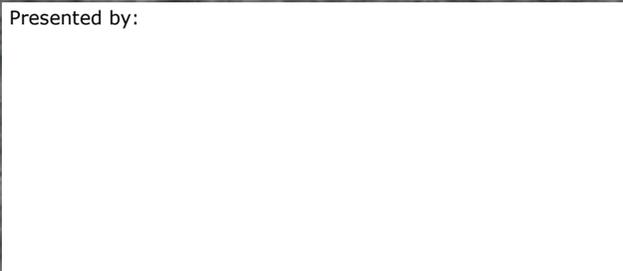
MAN-OVER-BOARD-OPERATING-SYSTEM

Receiving Station MRX-S with 7" Tablet PC

WHERE IS MIKE?



Presented by:



**THE ULTIMATE MOB-SYSTEM FOR
COAST, OPEN SEAS AND INLAND WATERS!**

mobos®

The **MOBOS®-Beacon** is very compact and light: Its measurements are **200 x 35 mm** (H x D) only and it weighs just **160 Gramm/0.35 lb** including batteries! This is the reason why it fits almost in all automatic PFD — even in SOLAS- and childrens' PFD. It does not constrict and does not impede movements onboard. It will be activated automatically through the self-inflation of the automatic lifevests (MOBOS®-Beacon MTX-A). MOBOS®-Beacon MTX-M is recommended for users of foam PFD with manual switch and a pouch.



MOBOS®-Beacon MTX-M
with manual switch

MOBOS®-Beacon MTX-A
with automatic switch

SMALL, HANDY, HIGH-TECH: MOBOS®-BEACON!
All antennas are inside the housing and maximum protected against damage!

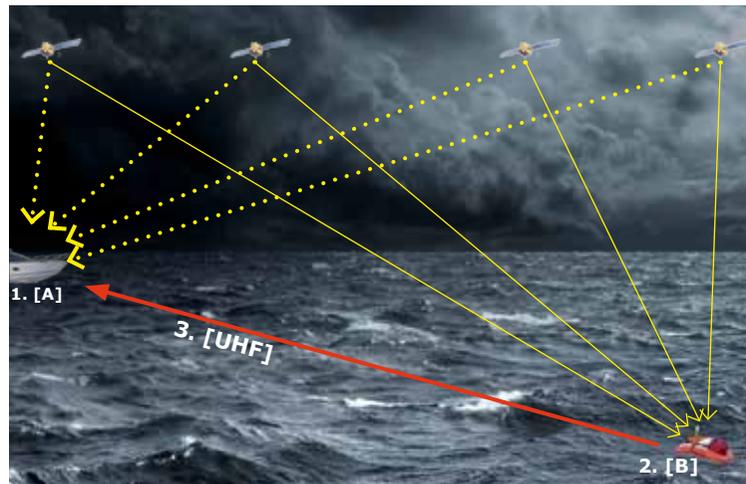
To keep the crew permanently updated about the precise position of the MOB, MOBOS®-Beacon relays **all 15 seconds its GPS position** to MOBOS®-Receiver.

Despite of these short transmission intervals **MOBOS®-Beacon has a very long current time of batteries: it runs about 170 hours** (1 week)!

In consequences the batteries do not have to be changed after every rescue operation. It is powered by 2 commercially available Lithium batteries (AAA) which can be changed easily by the customer. No return to manufacturer required, due to battery change!

MOBOS® uses a radio frequency license free and free of charge, no radio certificate (SRC) is required. The system is totally independent and **very efficient: No false alerts!**

If several persons fall over board, MOBOS®-Receiver is able to receive and to evaluate **all MOBOS®-Alerts simultaneously!** Even in this extreme situation the skipper gets all individual life-savings data of every MOB!



FUNCTIONAL PRINCIPLE OF MOBOS®-SYSTEM

1. The MOBOS®-Receiving Station MRX-S is permanently installed onboard and determines its GPS position [A] through the GPS satellites. It is now ready to receive and to evaluate the alerts of the MOBOS®-Beacons.
2. After activating MOBOS®-Beacon it relays a 1st alert *directly* to the MOBOS®-Receiving Station. The crew is immediately informed about the case of emergency/MOB. Then MOBOS®-Beacon determines its GPS position [B].
3. After the MOBOS®-Beacon has determined its own GPS position [B] it relays the data *automatically* and *directly* to the MOBOS®-Station MRX-S onboard.

Using its own GPS position [A] and the received GPS position [B] from the MOBOS®-Beacon MOBOS®-Station MRX-S then evaluates the exact distance and bearing from the boat to the MOB! This life-saving data is forwarded to a Tablet PC (Android) where it is displayed as an **easy understandable graph**. **Now the rescue operation can be initiated promptly!**

WATER INLEAKAGE AND POWER BLACKOUT?

Horror for every skipper: MOB and black plotter screens! Now MOBOS® Station MRX-S shows its great value as **perfect Back-Up** onboard: Its batteries runs about **140 hours** and it shows the skipper the exact position of the MOB *plus* all precise data of the boat:

- + Day and time
- + GPS coordination of the boat
- + Speed and course over ground of the boat

MOBOS®-Station MRX-S is fix installed onboard.

The very compact Receiver is totally autonomous thanks to its integrated radio receiving, GPS and Bluetooth antennas. Alternative it can be combined with high mounted external antennas if it is placed inside a cabin or below deck. The high mounted external antennas increase the performance of MOBOS®-System.



MRX-S: Compact measurements 160x120x80 mm (WxHxD)



An external GPS antenna (above) and a radio receiving antenna (right) can be easily connected to the MOBOS®-Station.



All data at a glance and in one hand:

- + Graph of position of MOB
- + Distance and course from the boat to MOB
- + Day, time, GPS position, speed and course of the boat

MOBOS®: INDEPENDENT AND RELIABLE! AT THE COAST, AT OPEN SEA AND AT INLAND WATERS!