

ZAON-Interface Manual

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1. ZAON Interface

1.1 Necessary equipment for the use of ZAON

Zaon XRX: Supported by Moving Terrain from version 7.4b

Required cable: standard 1:1 RS232 cable with male and female connector

1.2 Configuration Zaon XRX

Besides the standard configuration like operating range, type of aircraft, etc. make sure that the Zaon sends data via the COM port.

Procedure:

- 1) Switch Zaon on
- 2) Agree to the warning notice
- 3) Button "MENU"
- 4) Navigate with "UP", "DOWN" to "COM" in the menu and select it with "MENU"
- 5) Navigate with "UP", "DOWN" to "Profile 1" and select it with "MENU"
- 6) Navigate with "UP", "DOWN" to "Exit" and select it with "MENU"

Configuration of the Zaon XRX for the use with MT is finished.

1.3 Starting up

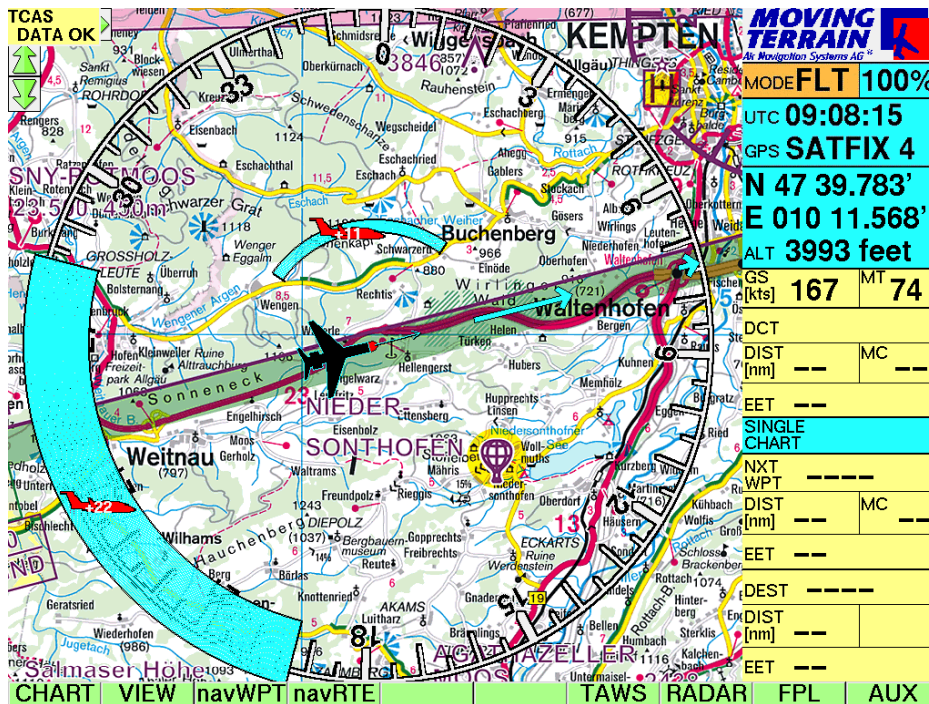
- 1) Before starting up make sure that a COM Port is designated in "mtpro.ini" to TCAS (COM1 or COM4). This will be preset before delivery. For changes of the settings, please refer to the installation manual.
- 2) Connect MT and Zaon XRX with a standard 1:1 RS232 cable
- 3) Switch on MT and Zaon XRX in any order
- 4) In the MT Menu choose "TCAS"
When **starting up for the first time**, choose the connected TCAS unit (ZAON) with "TAS SEL". The selection will be saved for future use.
- 5) After that, activate the display on the MT unit with "TCAS" -> "ON"
- 6) The status can be checked in the display in the Infobox in the upper left corner.

Possible status messages:

- 1) "NO DATA" -> Check the cable connection, check protocol-settings, check entry in "mtpro.ini"
- 2) "DATA OK" -> the data transmission from the Zaon is successful

1.4 Informations about the Graphic Display

The white text in the aircraft symbols shows the difference in height between your aircraft and the traffic. The number (e.g. 22) stands for 2200 feet.



Because of the strong bearing deviation specified by Zaon ($\pm 45^\circ$), the display of aircrafts is realized as an arc with an opening angle of 90° .

The width of the arc depends on the distance of the aircrafts to be depicted and the scale of the map used. Zaon gives the following tolerance values:

distance [nm]	tolerance [nm]
> 6,0	$\pm 1 - 2$
3,0 - 5,9	± 1
2,0 - 2,9	$\pm 0,2 - 0,5$
1,0 - 1,9	$\pm < 0,2$
< 1,0	$\pm 0,1$

The colour of the arc is defined by the relative height and the distance to your aircraft.

aircraft (position)	colour
above the critical cylinder	blue
below the critical cylinder	brown
within the height of the critical cylinder, distance outside the danger area	white
within the critical cylinder, dangerously close	red

