

MT-STORMSCOPE Manual

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I Installing the System

I.1 System components

MT-Stormscope requires the following components:

Hardware

MT VisionAir with ComPort for data transmission GPS receiver (recommended: MT Integral GPS) with antenna WX-500 sensor with data transmission cable and antenna

Software

MT-Stormscope presentation software

Block diagram



The system components must be correctly assembled:

For connecting power and GPS to MT-VisionAir, please refer to the main manual. For connecting the antenna, WX-500 and power supply to the WX-500, see the respective instruction manuals.

Use a crosssed RS232 data cable for connecting the WX-500 sensor to the intended and thus marked COM port on the MT-VisionAir device.



II Mode of Operation of MT-Stormscope

II.1 Switching on the MT-Stormscope

Switch the device on and confirm with AGREE
Select
AUX
Activate MT-Stormscope with
STORM



When the STORM key is pressed, the following button bar appears:





II.2 Display

Basically, lightning strikes are shown on the MT system as small flashes with red tips. They give the precise location of lightning strikes.

II.2.1 Non-dedicated mode

Strike mode



In Strike mode, each lightning strike picked up by the WX-500 sensor is displayed on the chart. Approaching thunderstorms can be instantly recognized and the hazard zone avoided.

Cell mode



Cell mode shows the location of presumed thunder cells based on the logic of the WX-500 from data so far acquired. The Cell mode is also extremely useful during a phase of intense electrical activity in the air, since it does not display each individual lighting strike, but only presumed thunder cells.



II.2.2 Dedicated mode

To change to Dedicated mode, press:

- ✓ VIEW
- ✓ MFD

Arc mode



Display of MT-Stormscope data in Off-center mode. Advantage: improved forward view.

- ✓ **RNG+ / RNG-** Changes the range between 10 nm and 800 nm
- **360** Switches to 360° mode
- ✓ MAP+ Quits Dedicated mode and returns to the chart
 - BACK Returns to FLT / MAP Main menu





Range 300 nm

✓ RNG+ (3 times)

Range 800 nm

Toggling between Cell and Strike mode is the same in Dedicated mode as in Non-dedicated mode (see example on page 6 - 360° mode)

- ✓ BACK
- ✓ AUX
- ✓ STORM
- ✓ CELL/STRIKE



360° mode

Display of MT-Stromscope data in Center mode. Advantage: Overview not only in direction of flight.



Data display in Strike mode. Every electrical discharge detected by the WX-500 is shown.



200 nm

Switching to Cell mode on the View menu:

- BAČK \checkmark
- AUX ✓
- STORM \checkmark
- **CELL/STRIKE**



range of 800 nm



II.3 Quitting Stormscope

- ✓ BACK
- ✓ AUX
- ✓ STORM
- ✓ OFF

