

**Life's most beautiful things are not seen with the eyes,
but felt with the heart.**

Wishing you a Happy New Year 2020!

Moving Terrain TCAD: Combined target identification FLARM + Avidyne TCAS

Midair collisions always startle. Since the room for maneuver in a dangerous situation is very small and must be reacted immediately and correctly, a warning as early and as precise as possible is often the only way to **prevent a disaster**.

In Europe, the detection of the transponder signals via Mode-S is not available and so the detection of incoming traffic with an active system such as Avidyne TAS 600 series is still the safe option to make the aircraft visible which are equipped with a transponder and thus to be able to warn against them.

The combination with the detection of FLARM equipped aircraft and the display of traffic on **one multifunctional display** allows the **immediate comprehension of the situational danger**.

Different symbols

- gliders (FLARM detected)
- motor aircraft (Avidyne TAS)

Warning colors within the "Critical Cylinder".



NEWS for FLARM: EASA approves FLARM for helicopters

"EASA has formally **approved FLARM** for fixed installation in helicopters. Being already installed in over 40,000 General Aviation aircraft, helicopter operators previously had to apply for individual installation approvals from EASA or use PowerFLARM Portable. The newly published EASA Certification Memorandum (CM) extends generic FLARM installations from ELA2 aircraft (previously available as a Standard Change or an AML-based Minor Change) to all CS-23, CS-27 and CS-29 aircraft, including all rotorcraft." (information from FLARM company)

Complete re-design of the cockpits of 15 PC6 "Pilatus Porter": RUAG integrated MT VisionAir X

Together
ahead. **RUAG**



Picture: RUAG Lodrino <https://propeller-aircraft.ruag.com/en/propeller-aircraft/propeller-aircraft-system-upgrades>

The small transport aircraft's robust design as well as the STOL characteristics enables the Swiss Airforce to operate in almost all conditions and from almost all landing sites.

The special missions require adequate performance of the digital map:

- Integration into the cockpit layout and dimming concept with a **Synchronized Dimming Feature**. Good outside visibility during night parallel to a clearly visible panel is particularly important for parachute jumper operations. By a customized software setting, the Moving Terrain VisionAir X perfectly dims with all other cockpit instruments and cockpit screens.
- **NVG compatibility**
- Utmost awareness of surrounding danger as if **terrain, obstacles and combined target identification: FLARM + Avidyne TCAS traffic** in combined representation on a single screen.



picture: <https://www.vtg.admin.ch/de/einsatzmittel/luft/pc-6-turbo-porter.html>

Glide Range Capability – Glide Range Actual

Customers Feedback

"An awesome feature! From pilots for pilots!"

Wolfgang Grumeth, Airborne Technologies GmbH

Assessing landing options at a glance

As a latest enhancement to the Nearest Airport Function Moving Terrain engineered the:



Glide circle capability based on aircraft performance



Glide range actual based on pilots performance in a given ACFT

The ultimate emergency tool together with the Nearest Function depicted on the chart.



Yellow ring maps the theoretical performance of the plane based on the handbook glide range entered into the menu.

Cyan ring maps the glide range as it is actually flown by the pilot with his current speed and any current downdrafts or updrafts existing in the air.



Terrain data do not have to be separately loaded – impact of nearby terrain is automatically provided.

In hilly areas the ranges follow terrain contours, smoothly ranging into valleys and narrowing short in front of mountains.

Best information even for Partial Power Loss (PPL)

In case of an engine failure in a Multi Engine Aircraft, or loss e.g. a turbo charger, the actual glide range is larger than the standard aircraft glide angle.



A further step to enhancing situational awareness by Moving Terrain

Best regards
Your MT-Team

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