

SKYDETECT™ STORM ANTICIPATION SOLUTION

A highly competitive real-time and high definition solution either for local or large territories: SELERYs has designed SKYDETECT™ as a highly competitive short-range X-Band radar able to provide:

- A real-time total monitoring of the total half sphere
- Displaying each cloud's maximum reflectivity in high definition



A VERY EASY-TO-DEPLOY RADAR SOLUTION

The X-Band radar solution SKYDETECT™ designed by Selerys consist of a light weight 6kW antenna linked to an outdoor or indoor cabinet. Since this solution is short-range, it allows **flexible installations** over 1 or 2 days on towers, masts, or buildings with a **minimum of constraints** and **maintenance** that can be performed the **simplest way**. Mobile mast-mounted trailers for punctual needs or reactivity are available as an option.



A SOLUTION DESIGNED FOR ALL CONFIGURATIONS

SKYDETECT™ has been designed in order to help in anticipating severe events in different configurations. It can be used in a **network** to monitor weather risk across **large territories** or on a **punctual area** as a **stand-alone sensor**. In case of **remote installation** areas, SKYDETECT™ X-Band radar solution runs at a **low electrical consumption** and **autonomous power supply** is available as an option.



A READY TO OPERATE & TURNKEY SOLUTION

SKYDETECT™ solution includes the X-Band radar(s), a **suite of softwares**, a **user-friendly** interface with **multiple users** management, sensor/network of sensors **remote monitoring tools & services**, as well as global maintenance & support services. Thanks to SKYDETECT™, **you can stay focused on your operations**.



SEVERE WEATHER EVENTS RISK MANAGEMENT WITH SKYDETECT™

Based on SELERYs' algorithms and a 12 years in-house storm database, SKYDETECT™ provides highly competitive advanced warning of severe events long **before the first precipitations**. Because every minute counts, the **real time local HD atmospheric monitoring** allows tracking each and every cloud and its possible direction, hence **increasing operational efficiency** without missing any event (no false negative).

Selerys, predicting the unpredictable.

SKYDETECT™ : PERSONALISED AUTOMATIC ALERTING

Operators can even rely on customised automatic alerting based on SELERY'S risk assessment algorithm. SKYDETECT™ can be considered as a true **sentinel**, **24 hours a day, 7 days a week, 365 days a year!**

COUPLING EYEARLYS™ AND SKYDETECT™: THE EARLIEST AND MOST ACCURATE STORM ANTICIPATION SOLUTION ON THE MARKET

The latest scientific publications indicate that the optimum for storm anticipation is the combination of VHF/UHF (as provided by the EYEARLYS™ solution) and a X-Band radar (as our SKYDETECT™ solution). SELERY'S is the only company worldwide offering this type of solution fully integrated from hardware and software perspectives.

USER EXPERIENCE

- User-friendly interface
- Customized automatic alerting
- SMS / Mail / voice alerts
- Access to archives
- Nomad remote access: smartphones, tab & computers
- Real-time remote system monitoring
- Multi-user management
- Dynamic map

**Storm
Anticipation**
On computer, tablet and
mobile phone.



TECHNICAL SPECIFICITIES

DIMENSION & WEIGHT

- **Antenna**
size 140 cm
weight approx 30 kg
- **SKD cabinet**
Size: up to 70 x 70 x 120 cm
weight approx 80 kg

INSTALLATION

- **Mounting time + adjustments and tests**
Between 2 and 3 days
- **Maintenance**
Each year – Mandatory replacement of wearing parts
- **Remote control / settings / software**
licence renewal
Internet connexion needed

COMMUNICATION

- Power supply: 220V/110V
- Communication: GSM 4 bands
- Ethernet connexion Required
- Output: 6kW
- Frequency: 9,41 GHz
- Antenna size: 120 cm
- Antenna weight: approx 30 kg
- SKD cabinet weight approx 80 kg
- Electrical autonomy Minimum 4 hours

- Output data refresh 1 minute
- Monitoring diameter 60 km
- Cell dangerousity display 9 colors

POWER SUPPLY

- Power supply 220V/110V
- Maximum consumption 140 W
- Electrical autonomy Minimum 4 hours
- Option: electrical autonomous system

ENVIRONMENTAL OPERATIONNAL CONDITIONS

- Temperature -25°C to 70°C (antenna)
0°C to 40°C (cabinet)
- Max wind 100 Nd relative

SKYDETECT™ CAN BE USED FOR FOLLOWING APPLICATIONS:



Outdoor
leisure & entertainment



Construction



Aviation
& airport



Cloud
seeding



Energy



Tele
communication



Forestry
and Civil Security



Mining