RADIUS360
RISK ASSESSMENT BY DRONE

SHIELDING360

YOUR SAFETY AND SECURITY RISKS SEEN FROM THE SKY

Risk **A**ssessment by **D**rone
for **I**ntegrated and **U**pgraded
Safety and Security



Save time and work more effectively, while reducing your teams' exposure

SEVEN SECTORS WE SERVE


CONSTRUCTION SITE


INDUSTRIAL SITE


DATA CENTER


ENERGY AND UTILITIES


LOGISTICS CENTER


PORT OPERATIONS


PUBLIC EVENTS

STS-02 remote pilot · EspaceDrone training: Pack Inspection, Pack Drone Security Officer
Prevention Advisor Level I · Health and Safety Coordinator Level A
SHIELDING360, security consultancy authorized by the Federal Public Service Interior, a regulated activity in Belgium

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Company number 1027.472.203 · Operations compliant with EU aviation regulations · GDPR-compliant data processing · RADIUS360™

RADIUS360

RISK ASSESSMENT BY DRONE

YOUR SITES, OUR MISSIONS

Construction sites · Industrial sites
Energy sites · Logistics hubs
Port terminals · Quarries



REDUCE EXPOSURE TO ACCIDENT RISKS

Spot hazardous situations and prioritize your actions

Survey your risk areas in a single flight

Simultaneous work activities, storage areas, traffic and evacuation routes mapped.

Assess your sites against a checklist of over 100 points

Work at height, lifting, excavations,
vehicle and machinery traffic, hot work…

Inspect while limiting your teams' exposure

Inaccessible areas, heights and unstable structures.

Track changes from one flight to the next

Dated, geolocated evidence.

Mission prepared with your teams, subject to feasibility and authorizations.
Aerial observation complements your site visits and ground checks.

YOUR DELIVERABLES

Report, annotated photos and priority actions

Hazardous situations mapped, illustrated and ranked by priority.

LIVE MONITORING

On site or remotely

From your office via FlightHub 2
With your teams on site, on a large screen
Briefing and debriefing based on the images

MAPPING AND MODELING

Complete view of the site

2D orthomosaic
and 3D model of the site
Every image geolocated

THE DRONE: DJI MATRICE 4TD 112x hybrid zoom · Thermal camera · 1,800 m laser rangefinder

TRAINING 360

Train your teams using images of your own site

Real cases analyzed as a group to learn how to spot hazardous situations and prioritize preventive measures.

STS-02 remote pilot · Prevention Advisor Level I · Health and Safety Coordinator Level A

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RADIUS360

RISK ASSESSMENT BY DRONE

YOUR SITES, OUR MISSIONS

Energy and industrial sites · Data centers
Logistics hubs · Port terminals
Business parks · Storage sites



REDUCE THE VULNERABILITY OF YOUR SENSITIVE SITES

An independent professional view of your site security.
Findings supported by images to guide your actions.

Identify what your site reveals

Valuable stock, sensitive equipment and information exposed to outside view.

Identify the weak points and design flaws of your perimeter

Damaged fencing, objects that help intruders climb over and cluttered surroundings.

Map your blind spots

Obstacles and low-visibility areas, analyzed with your teams from the images.

Examine your site at night

Lighting, dark areas and surroundings observed using visible-light and thermal imaging.

Adapt your protective measures

Findings mapped to help you adjust patrols and plan corrective actions.

Aerial observation or observation from outside the site, subject to feasibility and authorizations.
Mission prepared with your security manager, complementing ground checks.

YOUR DELIVERABLES

Vulnerability map and prioritized action plan

Findings supported by locations and images, with recommendations tailored to your site's security needs.

WITH YOUR TEAMS

On site or remotely

Your teams follow the flight live.
Debriefing based on the images to support decisions.

CONFIDENTIALITY

Agreed arrangements

Capture, sharing and retention defined with you.
Offline option and delivery on encrypted media.

THE DRONE: DJI MATRICE 4TD 112x hybrid zoom · Thermal camera · 1,800 m laser rangefinder

TRAINING 360

Train your teams using images of your own site

Real cases analyzed as a group to learn how to spot vulnerabilities and report them.

STS-02 remote pilot · Pack Drone Security Officer · Authorized security consultancy (SPF Intérieur)
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RISK ASSESSMENT BY DRONE

YOUR SITES, OUR MISSIONS

Festivals · Concerts
Sports events · Fairs and markets
Local festivities · Public gatherings



ANTICIPATE THE RISKS OF YOUR PUBLIC EVENTS

See your event as a whole and coordinate in real time

Spot layout deviations before opening

Barriers, stage surroundings and technical areas: comparison with your site plan.

Prepare evacuations and emergency access

Evacuation routes, accessible routes and emergency service lanes.

Monitor crowd flows and spot congestion

Queues, crowd build-ups and pedestrian-vehicle crossings.

Observe surroundings and parking areas

Vehicle queues and congested access points, on arrival and departure.

Support coordination in the event of an alert

Live images and location of points to check for your security control room.

Flights subject to authorizations and weather, in agreed time slots, complementing your ground teams.

YOUR DELIVERABLES

Annotated plan, illustrated findings and priority actions

Deviations observed, points to confirm and actions to be decided with the organizer.

LIVE MONITORING

On site or remotely

Live images to your security control room
via FlightHub 2 or on a screen on site
Footage for briefing and debriefing

NO FLIGHT OVER THE PUBLIC

Perimeter flight

Flight zones and slots prepared
with the organizer
Observation using a telephoto lens

THE DRONE: DJI MATRICE 4TD 112x hybrid zoom · Thermal camera · 1,800 m laser rangefinder

TRAINING 360

Train your teams using images of your own event

Real cases analyzed as a group to learn how to spot sensitive points and anticipate congestion.

STS-02 remote pilot · Prevention Advisor Level I · Authorized security consultancy (SPF Intérieur)

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RISK ASSESSMENT BY DRONE

YOUR SITES, OUR MISSIONS

Seveso sites · Industrial sites
Hospitals · Nursing homes · Schools
Office buildings · Logistics hubs



IMPROVE YOUR EVACUATION AND CRISIS EXERCISES

Observe your exercises from above and adjust your procedures

Monitor people's movement to assembly points

Arrival times and numbers of people visible, with AI-assisted counting for reference.

Spot blockages on outdoor routes

Obstructions around exits, bottlenecks and crossings with vehicles.

Observe emergency access conditions

Visible obstacles, access to hydrants and deployment areas for emergency vehicles.

Share images with participating emergency services

Live overview for the command post.

Turn the debriefing into concrete actions

Time-stamped footage cross-checked with observations from ground teams.

Counting supports the ground roll call and does not confirm that buildings are empty.

YOUR DELIVERABLES

Illustrated report, timeline and priority actions

Observed facts, points to confirm and recommendations, linked to the timeline.

LIVE MONITORING

On site or remotely

Live images via FlightHub 2
With your teams on site, on a large screen
Briefing and debriefing based on the images

NO FLIGHT OVER PARTICIPANTS

Perimeter flight

Flight zones defined in advance with the exercise director
Clear of emergency service routes

THE DRONE: DJI MATRICE 4TD 112x hybrid zoom · Thermal · 1,800 m laser rangefinder · AI detection

TRAINING 360

Train your teams using images of your own site

Real cases analyzed as a group to learn how to spot blockage points and apply evacuation instructions.

STS-02 remote pilot · Prevention Advisor Level I · Health and Safety Coordinator Level A

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RISK ASSESSMENT BY DRONE

YOUR SITES, OUR MISSIONS

Industrial sites · Steam networks
Energy sites · Roofs and buildings
Solar farms · Storage areas



SPOT ANOMALIES BEFORE EQUIPMENT FAILS

Aerial thermography and visual inspection,
while limiting disruption to your operations.

Spot heat losses on your networks

Pipes, flanges, insulation: thermal anomalies located.

Inspect roofs and facades

Visible damage, signs of moisture and insulation defects to be checked.

Check your solar panels

Hot spots and temperature differences identified on the panels inspected.

Examine details from a distance

Using a telephoto lens: visible cracks, corrosion, fasteners and nameplates.

Track changes from one inspection to the next

Images from the same viewpoints, dated and geolocated to track changes in defects.

Anomalies to be confirmed by targeted checks with your maintenance team.
Flight and measurement conditions adapted to the site, the equipment and the authorizations.

YOUR DELIVERABLES

Inspection report with visible-light and thermal images

Anomalies mapped, thermal readings and actions to prioritize with your maintenance team.

LIVE MONITORING

With FlightHub 2

Your maintenance team follows the flight
from the office or on site.
Shared geolocated annotations.
Images centralized after the flight.

LOCATING ANOMALIES

Overview of the site

Markers on the site map
Visible-light and thermal images
Distance measurements
by laser rangefinder

THE DRONE: DJI MATRICE 4TD Radiometric thermal camera · 112x hybrid zoom · 1,800 m laser rangefinder

TRAINING 360

Train your teams to use inspection results

Real cases analyzed as a group to understand the findings and prepare checks with maintenance.

STS-02 remote pilot · Pack Inspection · Prevention Advisor Level I

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RISK ASSESSMENT BY DRONE

EQUIPMENT THAT SUPPORTS YOUR MISSION

SHIELDING360

A MOBILE MISSION STATION CLOSE TO YOUR TEAMS

Observe together. Coordinate on site. Share the findings.



Our setup on your site



DJI MATRICE 4TD

48 MP visible-light cameras
112x hybrid zoom
640 × 512 thermal camera
1,800 m laser rangefinder

OBSERVE

DJI Matrice 4TD + RC Plus 2

Observe risk areas from a distance.
AL1 spotlight and AS1 loudspeaker when needed.

VIEW TOGETHER

21.5” monitor + DJI SDR Transmission

Your teams watch the video feed on a field screen and discuss the points to check.

COORDINATE

Saramonic WiTalk9 headsets

1 master + 4 remote headsets: pilot and ground teams in voice contact, up to 500 m in line of sight.

POWER THE SETUP

Portable power station + spare batteries

Field equipment powered, batteries recharged on site: close to 6 hours of flight by rotating batteries.

CONNECT

DJI FlightHub 2 + mobile connectivity

Share live images with remote teams
and locate observations on the site map.

WORK ON SITE

Branded field shelter

A sheltered space for the monitoring station, briefings and team discussions.

A shared view of your site to support practical decisions.

Equipment selected and deployed according to the mission and site conditions.

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SHIELDING360

SHIELDING PEOPLE, PROTECTING FUTURE

Your safety and security risks, seen from the sky

LET US DISCUSS YOUR SITE

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Scan to email me



QUALIFICATIONS AND AUTHORIZATIONS

Prevention Advisor Level I (CP1) · Health and Safety Coordinator Level A
STS-01 and STS-02 remote pilot · EspaceDrone training: Pack Inspection, Pack Drone Security Officer
SHIELDING360: security consultancy authorized by the Belgian Federal Public Service Interior (SPF Intérieur)

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