APPLICATION SERIES / 04

Sharp Vision for Drone monitoring



Keep the survey in context. Inspect a detail.

A large survey drone could keep a flooded area in view while an inspector requests a closer look at a bridge or relief site. The aircraft shown is a concept illustration, not a confirmed installation. Sharp Vision has been demonstrated on the ground.

01 / FLOOD RESPONSE SURVEY

One survey. Three places to inspect.

Is the bridge approach visible? Where does water cover the road? Where are the relief vehicles? A 10 by 10 index gives the team 100 places to look within the 100° horizontal overview. Only selected places receive an optical close-up.



100° HORIZONTAL VIEW / 10 COLUMNS x 10 ROWS / SELECTED CELLS



B4 / Bridge deck



E5 / Flooded road



J5 / Relief vehicle

Each inset is the marked cell from the same concept illustration, not measured camera output.

WHAT THE GRID MEANS

At review time, an operator can see the overview and the most recent optical image of each sampled area. Two areas may show images taken at different times. An area that was never sampled remains at overview resolution.

The grid is a visual index, not 100 simultaneous cameras, a 100-metre ground footprint or a specification for vertical field of view.

02 / UNARMED OPERATIONS

Two viewpoints, two different jobs.

Monitoring drone operations from the ground is not the same as putting a camera on an aircraft. Each view answers a different facilities question.

01 / FROM THE GROUND

Airfield operations review

A facility team reviewing a scheduled inspection flight can keep the landing area and surrounding ground activity in context. If a detail was captured, its timestamp lets the team inspect it alongside the original sequence.

02 / FROM A LARGE UNARMED SURVEY DRONE

Storm-damage and access surveys

An airborne version could keep a flooded river crossing in view while a response team reviews the bridge approach and relief staging area. Time-stamped samples would show what was visible at each visit. No airborne installation is claimed here.

EXAMPLE REVIEW RECORD

Overview	The site and its surroundings at the selected time.
Location or track	Which area or foreground object the operator is reviewing.
Optical image	A separately captured detail image with its own timestamp.

Watch the original recording review >

03 / ENGINEERING STATUS

What the hardware demonstrates.

The original camera is a ground-tested prototype. An observation payload for a suitable unarmed aircraft is a possible development path, not a released configuration.



GROUND PROTOTYPE

100°
horizontal wide-view field

10°
horizontal detail field, original configuration

Full HD
selected hotspot streams in the published demo

01 Sensor format is not coverage

The ground prototype uses two 8 MP, 4K-class sensors. The team reports 10 attention actions per second, shared across the scene, not per grid cell. Full HD hotspot output is documented; 4K aerial capture has not been demonstrated.

02 Airborne suitability is unverified

The existing enclosure is not a flight-qualified payload. Whether an aircraft could carry it and deliver useful images in motion requires a platform-specific engineering and safety review.

FOR AN EVALUATION DISCUSSION

Choose an inspection question and agree what a useful image looks like. Review the original ground recordings first, then decide whether an airborne evaluation is justified.

Watch the hotspot recording >

Explore the aerial concept >

Aircraft and flood scene: AI-generated concept illustrations. Prototype photo: Wamda AI.