



# ASPECT 360

360° imaging system for surveying, robotics and autonomous vehicles

## FEATURES

- Simple vehicle integration with no manned interaction required
- 360° high quality mega pixel panoramic images with external audio
- H264 live video streaming feeds direct to a processing platform, human controller or autonomous test supervisor
- Optional recording add-on enables secure, impartial recordings accessible only to authorised operators

## ADVANTAGES

- No stitching of images, 360° field of view captured natively
- Ideal for verification of real-world data and AI processing from existing sensor suite
- Enables fast identification of all persons, vehicles and obstacles present at the scene

## BENEFITS

- Provides clarity to independent and post incident investigators
- Ensures accountability and public reassurance
- Cost effective system that saves time and money whilst minimising use of specialist personnel resources

### The ASPECT 360 System

The ASPECT 360 system has been specifically developed for use in surveying, high risk mobile robotics and autonomous systems.

The system enables complete audio-visual documentation of all events surrounding the vehicle, enabling real-time computer vision in any direction even when objects, incidents or signs might be outside the view of normal cameras.

The camera can also be used as an independent mobile monitoring system of the vehicle and surrounding traffic, providing law-enforcement / insurance investigation standard evidence.

### The Challenge

In vehicles cluttered with sensors, placement and field of view are critical.

When placing a mobile or autonomous system in a higher risk environment, take no chances: It is commonplace that sometimes vital information is not recorded in the run up and aftermath to incidents, or software processing (such as stitching) can change the imagery recorded.

### The Solution

ASPECT 360 delivers a fully automated and secure solution, ensuring critical images can be independently captured and preserved with total data integrity.

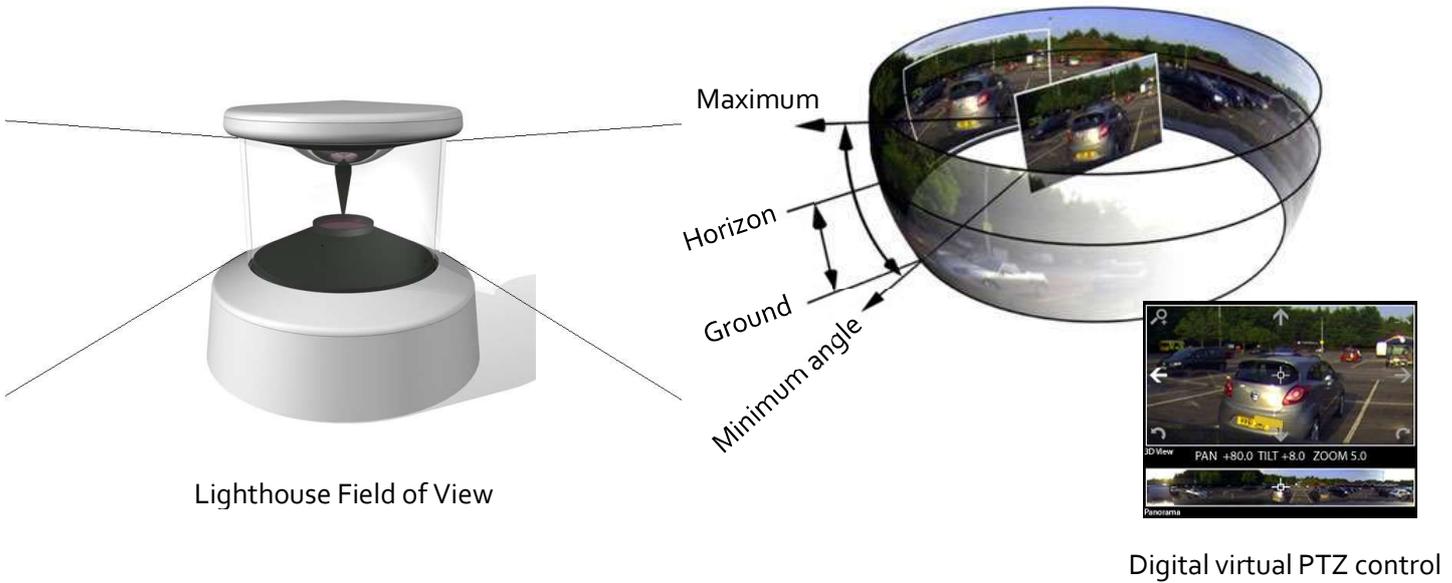
ASPECT 360 provides a simplified solution to monitoring and identifying incident causation, while adding a unique sensor layer which can also be used for low priority computer vision functions.

Using a unique optical layout, the full 360 degree scene is captured with no stitching.



Aspect 360 camera shown with Trivac mounting system option

# FOR 360° PANORAMIC SITUATIONAL ANALYSIS



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### Operational Perspective

From an operations perspective, it can be challenging for vehicle operators and test supervisors to establish and retain an overview of remote vehicles or robotic systems. Addressing this was high on the list of priorities when developing ASPECT 360.

Using secure H264 video streaming protocols, remote operators can now view real time images transmitted live from systems in use, or in test, to their desktop, laptop or mobile device, facilitates an independent and objective supervisory overview of vehicles.



### Recording

With the optional extra mobile data module, and in-car pc power configuration, the system continually records when a vehicle is deployed and goes on to record for up to 2 hours after the ignition has been switched off.

The system requires no interaction with the vehicle users as all operating processes are fully automated. Recorded data is securely stored on the system's own onboard mobile in-car data storage PC and can be accessed only by authorised personnel using a local password protected Wi-Fi connected laptop PC.

### Reviewing

With versatile screen layouts, powerful timeline searching and playback controls, the REVIEW software (see image to the left) simplifies post incident analysis and investigation

### Key Information

- Observant USB 3.0, high quality mega pixel 360° unstitched camera system with auto exposure and intuitive software
- H264 streaming video
- Image archiving and clip export
- Video with audio clip export
- Rugged, IP67 form factor camera housing
- 1-year RTB warranty extendable to 3 years

### Optional extras:

- Intel Core i7 mobile data terminal - 2.8(+) GHz quad core processor, 2 TB x SSD Hard Drive provides up to 48 hours continuous loop recording (dependent on conditions) with auto overwrite function, connectivity via 3G/4G, GPS (DR), WLAN, Bluetooth
- Trivac - high-strength non-magnetic adjustable mounting system
- Maintenance contracts tailored to client requirements
- Flexible leasing options - details available on request

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