Multifocal sensor system

PANOMERA®

Most cost-efficient solution available

Made in Germany

Latest technology for airport security

Panomera® is a completely novel camera technology, which was specially developed for the all-encompassing video surveillance of expansive areas. With Panomera®, huge widths, as well as areas with large distances can be displayed with a completely new resolution quality, in real time and at high frame rates of up to 30 fps – and the area can be surveyed from a single location.

The system impresses with the unique combination of an overall view with simultaneous high detail resolution at every distance.

PANOMERA

Dallmeier

Dallmeier

Panomera® – advantages that convince

Unique Panomera® effect
Due to the Panomera® effect, huge widths, as well as areas with large distances can be displayed with a completely new quality. Panomera® far surpasses the conventional HD 1080p standard, redefining the often heard term "high resolution" – because the "Panomera® effect" begins where HD and megapixel cameras reach their limits.

Highest detail resolution even at large distances
Panomera® stands out due to a completely novel lens and sensor concept. With innovative geometric construction principles, Panomera® uses its megapixels such that even objects that are farther away can be displayed with the same resolution as objects in the foreground of the picture.

Permanent recording of the entire scene
Panomera® solves the well-known problem with PTZ cameras whereby the operator has to choose between overview image and detailed view: It does not matter which section of a surveillance area an operator focuses on at any time, because Panomera® always records the entire scene. It is thus possible to later reconstruct any event for use as evidence in court, regardless of where it took place, and to recognise all persons involved.

Real time up to 30 fps
Panomera® provides image material in real time and at high frame rates of up to 30 fps.

Scalable resolution
Depending on the area of application, different Panomera® models are available: whether for expansive wide areas, long distance areas or challenging smaller surveillance areas. With Panomera®, the specific quality needed for a particular distance can be individually adjusted: The multifocal sensor system can be adapted to every customer's needs and the resolution can be scaled nearly limitlessly. The system can also be expanded without difficulty at any time.

Multi-user capability
In contrast to PTZ cameras, with which only one operator can control the camera, with Panomera®, an unlimited number of operators can navigate across the entire scene independently of each other. Although all operators are connected with the same camera, each of the individual users can select their view individually and zoom or pan as they desire.

Multicast enabled
Owing to the multicast capability several users can view the images from Panomera® without requiring repeated transmission of the data via network. This reduces the necessary bandwidth significantly.

Zoom areas can be selected freely

Permanent overview of the entire scene

No switching between cameras necessary

Intuitive control with Drag&Drop or joystick
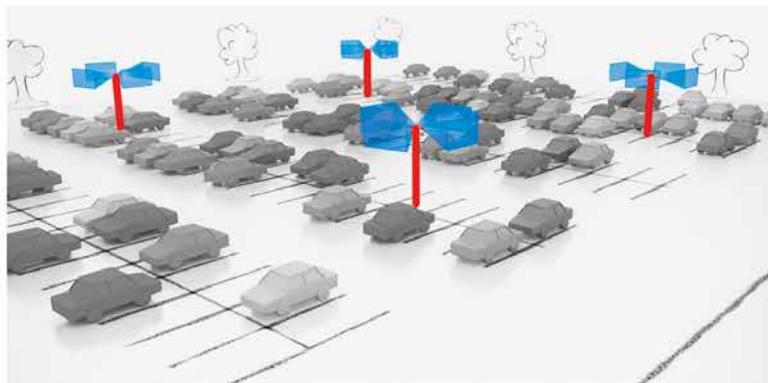
No moving mechanical parts
In contrast to PTZ cameras, Panomera® has no movable mechanical parts, which means there is no wear, extending the camera's lifetime.

Auto object tracking over vast distances
With one Panomera® system, a huge area can be surveyed from a single location in extraordinary detail. Movements of objects, such as people or vehicles, can so be reconstructed over long distances without any gaps in the recording or camera switching. Of course this is fully automatic thanks to intelligent video analysis.

Easy installation and maintenance
Where in the past, numerous camera masts had to be installed, with Panomera® a single installation site is enough. Since fewer camera installation locations are needed, the requirements for the infrastructure (masts, cables, electricity, etc.) are lower, along with expenditures for servicing and maintenance.

conventional

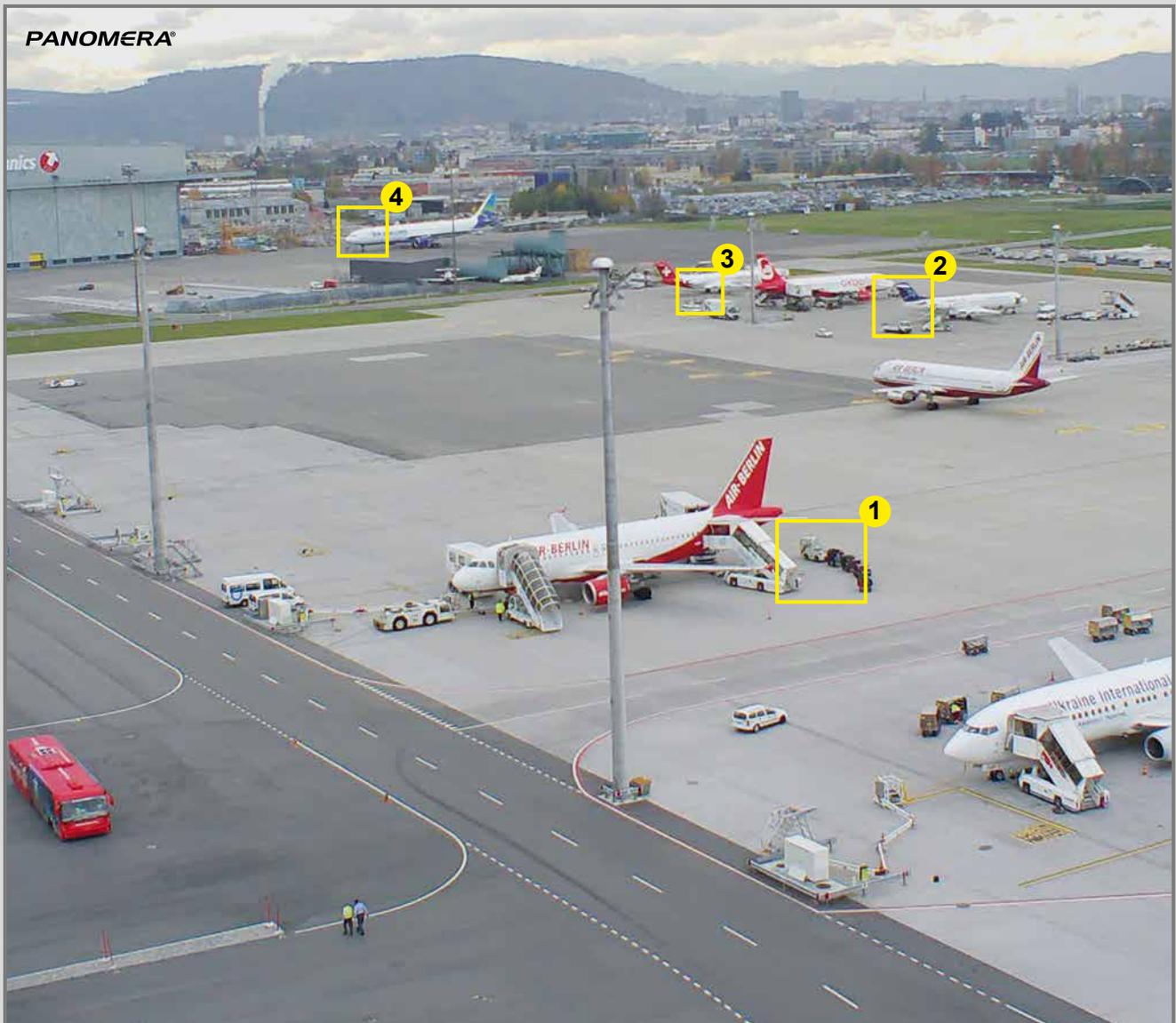Most cost-efficient solution available

PANOMERA®

Video security systems for airports:

- Comprehensive overview of the entire airport
- Documentation of the take-off and landing
- Confirmation of problems, such as with birds or strong winds
- Control of the chassis when the aircraft lands or goes to the runway
- Control of the queue of aircrafts at the runway
- Complete documentation and monitoring of the aircraft from landing to the park position
- Clear documentation of accidents or damage while the aircraft is at the parking position
- Control of cargo and goods during the loading process
- Recognition of debris or parts on the runway or the aircraft roadways
- Detection of fatigue cracks on the airfield
- Control of abnormal loads on the entire airport site
- Documentation of accidents on the airfield, such as damaged navigation lights or accidents between service vehicles
- Control of repairs and construction works on the runway or the airport
- Control of service performance and accurate overview of the personnel or service vehicles approaching the aircraft
- Documentation of refueling operations, such as duration of refueling or loss of fuel at the airport

The Panomera® effect:
Highest detail resolution at every distance

The multifocal sensor system Panomera® stands out due to its completely new lens and sensor concept: The resolution never falls below the specified parameters, not even in the most distant areas of the image. Therefore the Panomera® effect guarantees a uniform resolution over the entire scene. This way, even objects that are farther away can be displayed with the same resolution quality as objects in the foreground of the picture. The Panomera® effect begins where conventional HD and megapixel cameras reach their limits.

PANOMERA®

Distance ≈ 200 m / 650 ft

Distance ≈ 420 m / 1,400 ft

Distance ≈ 500 m / 1,600 ft

Distance ≈ 750 m / 2,400 ft

Further information to all of our products can be found at:

www.dallmeier.com