

# Linze

## norcontrol

knowledge for industry



The very latest  
in linear  
infrastructures  
inspection aerial  
systems

▶ Latest in aerospace  
technology

▶ International  
airborne  
certificates

▶ High speed of  
inspection

▶ GIS

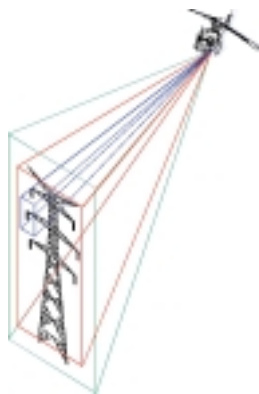
▶ Wide range of  
applications

▶ Easy transportation  
and mounting onto  
helicopters

Linze is one of the most advanced **linear infrastructure inspection systems**, with automatic orientation of the cameras, triple field of vision and high resolution images.

Developed by NORCONTROL, based on its wide experience in power line inspections, **Linze duplicates the inspection speed of conventional systems and drastically reduces the costs.**

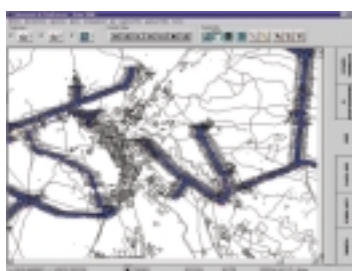
### Linze capacities



#### ■ In-flight data registration:

- Automatic orientation of the camera towards the installation that automates the inspection, making it independent of the operator's skill.
- Image simultaneous recording with three different and independent fields of vision: Panoramic, Detailed and Infra-red.
- Images of high resolution.

- Graphic interface support for the navigation with cartography and instant position of the helicopter in relation to the inspected facility.



#### ■ Analysis laboratory:

- Synchronous information management with graphic interface.
- Hot spots automatic detection.
- Electronic zoom, enhancement and improvement of the images.
- Spots positioning in 3D: singular elements and distance measurements.



#### ■ Integration of the information in the customer management systems:

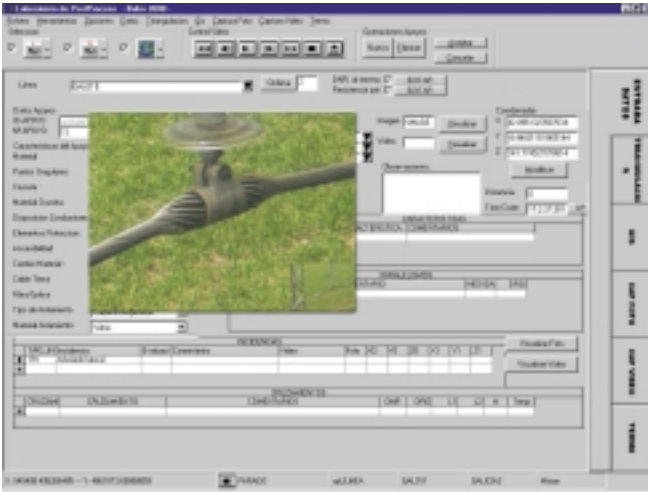
- Defects and incidences management software.
- Communication interface.

**soluziona**

calidad y medio ambiente

## Final product

The Linze versatility allows the inspections to adapt to the individual needs and requirements of every project.



- Defects and incidences management software with communication interface with the client's systems.
- Report module defined with the customer.
- Link of pictures and videos to defects.
- Internal diffusion of the information through the intranet in GIS.
- Images in different formats: VHS, CD, DVD.
- Generation of the facilities inventory with GPS coordinates of the elements.
- Hot spots relation, evaluation, historical analysis and follow-up control.

## Applications

### Overhead power lines

- Facilities positioning and measurement in 3D.
- Different types of inspections according to the detail required and the client needs.

### Linear infrastructure works

- Periodic follow-up of the works.
- Impact on landscape evolution.
- Data base/GIS with as-built information.

### Gas and oil pipelines

- Visual inspection and indexed graphic registration of the condition of the right-of-way.

## Advantages

- Speed up the inspection process.
- Cost reduction of the facilities maintenance relative to other patrol and aerial inspection systems.
- Maximum precision and detail.
- Generated information that can be easily integrated into other systems.

### Environment



- Detection of uncontrolled emissions to river basins or open sea.
- Assessment of impacts on landscape derived from motorways, industrial or mining sites, dams and reservoirs, etc...

### Fire fighting

- Surveillance of special dangerous zones.
- Follow-up control of fronts and cartography location of the affected zones.
- Evaluation to control re-emergence of fires.
- Positioning of spots in 3D and distance measurements.
- Geographic information system (GIS) of the infrastructure that can be published on the internet.
- Synchronous processing of the information, minimizing the possibility of human error.
- Automation of inspection, that makes it independent of the operator's skill.