

**RISER**

## TECH SPECS

### PAYLOAD

2 x HD Cameras for operator awareness  
2 x LIDAR with on-board processing On-board lighting system  
Optional sensors (IR or High Resolution EO)  
Optional Gamma Spectrometer

### USAGE

Precise Internal and external inspection  
Radiation detection and monitoring

### FUNCTIONALITY

Operated, not piloted  
Precise indoor navigation  
Real time 2D and 3D mapping  
Image stream and capture  
Dynamic collision avoidance  
Inspection data base generation  
Radiation mapping

## RISER

### NEXT LEVEL INSPECTION

RISER is an airborne inspection technology developed with our partner Createc. It is designed for safe, remote operation beyond visual line of sight in complex, cluttered and hazardous environments.

### APPLICATION

Riser is already available for the nuclear industry and has been successfully tested for aircraft and ship inspection. Optional sensors combined with application-specific data management approaches allow different types of inspection task to be undertaken by the same platform.

### OPERATED NOT FLOWN

RISER can be operated precisely and safely indoors without requiring GPS or any extra infrastructure, The system uses a simple, robust interface, meaning that the operator can get on with the inspection task rather than worrying about flying. HD video feeds and on-board lighting are provided to assist the operator. Obstacle avoidance comes as standard.

### CAPABLE

RISER generates 2D and 3D map data in real time. Optional sensor data such as gamma radiation level or high resolution imagery is captured and applied to the 3D map for further evaluation. RISER reduces downtime costs by addressing the safety and logistics burden associated with infrastructure inspection.

