SMART INSPECTION

Hi-tech solutions for visiting buildings and construction sites through virtual reality
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RINA Prime Value Services offers hi-tech solutions for visiting buildings and construction sites through virtual reality.

Remote site visits and technical surveys in a guided, protected, and georeferenced environment.

- An easy solution to minimise risks and protect personal safety
- Guaranteed operational continuity
- Highly competitive processing times
- Automated data storage
- Simple and safe operating systems
RINA Prime Value Services is launching a set of technologies and operating procedures to keep our site inspections and surveys going on both completed developments and construction sites now in progress:

- **Remote & Smart Inspection:** remote, real-time site inspections accessible from a range of devices:
  - **Smartphone/tablet**
    - Smart Appraisal Prime
    - Kiber web application
  - **Helmet**
    - Kiber Helmet web application
- **Drone-assisted site visits**
SMART APPRAISAL PRIME is a web application accessible via all mobile authentication channels that allows users to carry out remote photographic surveys and send in their working drawings and specs by e-mail and/or SMS.
The system can be accessed by activating a secure mobile link from the user's cell phone and/or a simple browser-based web interface.

The system provides the user a clear, comprehensive guide to creating site images.

Office support staff receive the user's photographs in real time, already organised according to project-specific standards.
Kiber web application (powered by VRMedia) allows the user to carry out remote site visits with the real-time support of an in-house Inspector or Technician who guides the on-site operator ensuring accurate and duly detailed inspections.

The on-site operator can create photo and video files in real time through a series of devices:

- Smartphone / tablet
- Kiber Helmet
After the operator assigned with the on-site engagement downloads Kiber 3 field (powered by VRMedia) on their mobile device, the app can be accessed with a session code generated specifically for the site inspection under assignment.

A member of RINA Prime technical office staff connects to the same on-site visit session via livestreaming and controls the survey:

- giving the operator instructions
- requesting specific, detailed framing
- guaranteeing the Client third-party control of their inspections

The app allows users to record video and save data in a secure, protected environment.

WATCH THE VIDEO

REMOTE & SMART INSPECTION
REAL TIME, HUMAN GUIDED SURVEYS
Kiber Helmet is a wearable device intended for on-site operators connected with our in-house technical experts through the Kiber Communication software (powered by VRMedia).
The Helmet mounts a video camera, microphone, headphones, torch, and thermographic camera.

- Allowing the project manager to see in real time what the operator sees on premises
- High-resolution imagery acquisition and real time image mark-up
- The system facilitates the sharing of documentation
- Option to run support sessions with multiple participants, with simultaneous recording and playback
- Allows operators to work hands-free

✓ reduced travelling times and costs
✓ a single device to shoot and store photos, video, and documentation
✓ limiting potential misunderstandings
✓ option to involve technical experts and clients from remote locations
✓ smart remote analyses
✓ greater physical expansion
✓ hands-free
✓ shooting control
DRONE-ASSISTED SITE VISIT

Drone-assisted site inspection activities are the new technological frontier in retrieving information from remote, hard to reach geographic areas.

The equipment, sensors, and operating systems that drones can deploy represent the best of industrial technology currently available on the market, ensuring reliability and performance standards otherwise hardly matched under similar circumstances.
Drone-assisted site inspections are carried out through a collaboration with the RINA Services DRONE unit. RINA obtained the Italian Aeronautical Authority (ENAC) recognition as a specialized operator for carrying out critical air work activities, allowing us to request specific authorisations for flight activities in controlled or restricted areas.

- 180X optical sensors
- Thermographic cameras with cooled/uncooled infrared detectors
- LIDAR sensors
- Multi- and hyperspectral optical sensors
- UV and TH optical sensors
- Dedicated post-production and examination software
- Custom reporting and solutions
- Non-destructive testing
- Visual and thermographic testing
- Multi- and hyperspectral analyses
- Sampling and characterisation
- Fugitive emissions tracking
- Environmental surveys
- Laser scans
- Dedicated sensor technologies
- Operational in classified areas (ATEX)
SCOPES OF APPLICATION

SMARTPHONE/TABLET
SMART APPRAISAL PRIME
Remote site inspections via smartphone and tablet.

SMARTPHONE/TABLET
KIBER WEB APPLICATION
Remote site inspections in real time via smartphone and tablet.

KIBER HELMET
KIBER WEB APPLICATION
Remote site inspections in real time via wearable helmet equipped with video camera, microphone, headphones, torch, and thermographic camera.

DRONE-ASSISTED SITE VISITS
Drone-assisted aerial inspections on complex development sites. Surveys & checks on sensitive and/or other risk areas.

REMOTE APP INTERFACE
• Bank appraisals
• Valuations/appraisals
• Surveys on portfolios with high property numbers

REAL TIME, HUMAN GUIDED
• Project monitoring
• Technical checks
• High surveillance
• Due Diligence
• Inspections

REAL TIME, HUMAN GUIDED
• Project monitoring
• Technical checks
• High surveillance
• Due Diligence
• Inspections

HUMAN GUIDED
• Inspections on complex infrastructure
Priming your future