



TOPOGRAPHIC LAND SURVEYS



MEASURED BUILDING SURVEYS



SCAN TO BIM



BUILDING INFORMATION
MODELLING



3D LASER SCANNING



SITE ENGINEERING
& SETTING OUT



UNDERGROUND UTILITY



DRAINAGE CCTV SURVEYS
& REPORTS



DRONE SURVEYS & INSPECTION



ACCURATE VERIFIED
VIEW SURVEYS



QUALITY ASSURANCE
SURVEYS & REPORTS



DIGITAL TWIN SURVEYS



CASTLE SURVEYS LTD

**EXPERTS IN GEOSPATIAL
MEASUREMENT & MAPPING**



www.castlesurveys.co.uk

About Castle Surveys

Based in the UK with three strategic regional offices, Midlands, London & Manchester. Castle Surveys Ltd is a geospatial survey company regulated by The Survey Association (TSA) Royal Institution of Chartered Surveyors (RICS) & Chartered Institution of Civil Engineering Surveyors (ICES).

We are committed to working with our Clients to deliver an integrated service focussed on safety, quality and efficiency. As an experienced multi-disciplined team, we are able to draw on our collective knowledge base to design bespoke solutions tailored to our Client's requirements, ensuring that safety and quality are not compromised whilst cost efficiencies are explored.

With honesty as a core value, we work with our Clients to deliver a collaborative approach to the project ensuring that we remain your preferred geospatial survey partner for future projects.



Our Services

- Measured Building Surveys (Floor Plans)
- External/Internal Elevations & Sections
- 3D Building Information Models
- Laser Scanning
- Point cloud data & viewer files
- Construction Verification Surveys
- Rights of Light Surveys & Models
- Land Registry Compliant Plans
- Ariel/Drone Surveys
- Hydrographic & Watercourse Surveys
- Site Engineering & Setting Out Services
- PAS 128 Underground Utility Surveys
- Utility Desktop Reports
- Accurate Verified View & CGI Renders
- Arboricultural Report and Tree Surveys
- IPMS & Area Surveys
- Lease Plan & Boundary Surveys

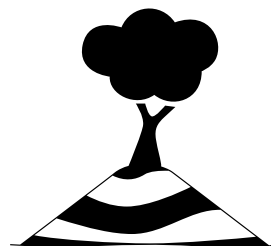


Topographic Land Surveys

Our Topographical surveys are carried out in line with the standards set out by the Royal Institute of Chartered Surveyors (RICS). Castle Surveys Ltd pride ourselves on ensuring that our survey teams are trained to the highest standards and conduct their work in a professional & time efficient manner.

Castle Surveys Ltd undertake land surveys of all sizes, small and large, from a single plot to a large multi-acre development, across the whole of the UK and further afield. We utilise the most cost-effective solutions to ensure that all clients receive their products at the accuracy and detail they require with a quick turnaround time.

We utilise GNSS, Total Stations, Laser Scanning, LIDAR and Unmanned Aerial Vehicles (UAVS) are among the technologies that could be utilised to acquire geospatial data for your projects



Measured Building Surveys

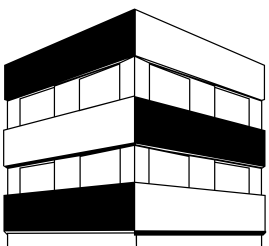
Castle Surveys Ltd are experts in the provision of accurate Measured Building Survey data.

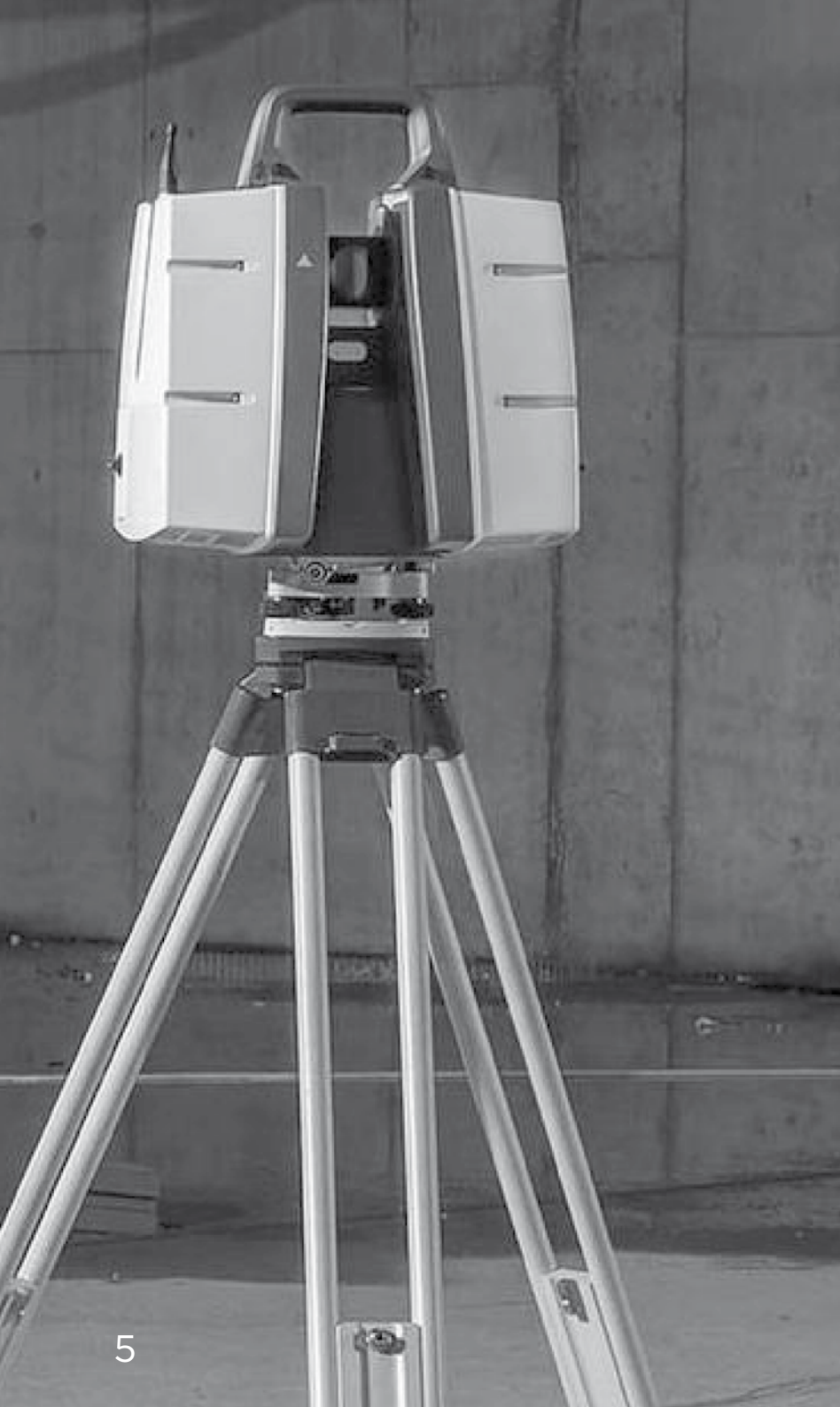
Utilising high-definition 3D laser scanners we can deliver solutions for the rapid surveying of inaccessible surfaces or complex geometrical components. We can then create a registered 3D point-cloud which can be integrated and used with our 3D modelling software to produce high quality & detailed deliverables to our clients.

Each element of the property can be surveyed independently or as part of a fully connected co-ordinated survey which will reference the floor plans, elevations, topographical surveys and underground utility surveys.

Our measured building surveys include

Floor Plans	Elevations
Sections	Roof Plans
Internal Elevations	Internal Area Surveys & Reports





3D Laser Scanning

Castle Surveys Ltd have a large amount of experience in carrying out and managing laser scanning projects. This type of surveying offers a rapid, accurate and safe method of collecting comprehensive 3D information about any structure or building. Collection of site data can be recorded to an accuracy of +/- 3mm.

Whether acquiring 3D geometry of civil infrastructure, generating an as-built survey of an industry development or producing 3D data for Building Information Modelling (BIM), Castle Surveys has the knowledge & experience to deliver your project on time and within budget.

Another huge benefit to 3D laser scanning is that the survey data can be recorded from ground level, eliminating health and safety concerns such as working at height and working in dangerous environments.

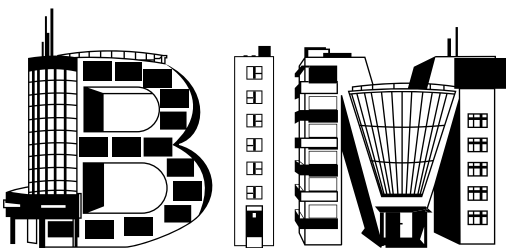
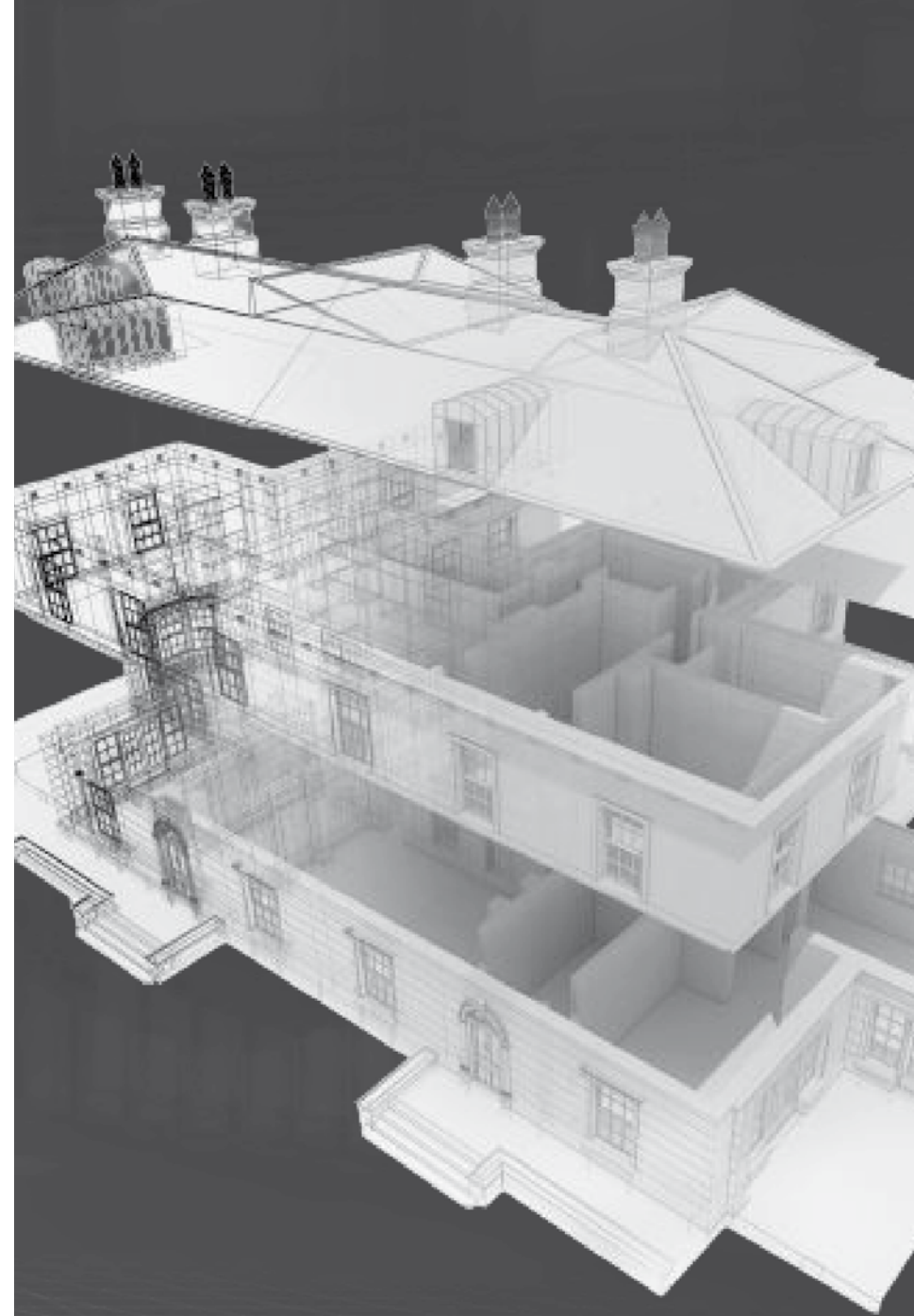


Building Information Modelling

At Castle Surveys Ltd, we know how important the use of BIM (Building Information Modelling) can be to design, surveying, and construction industries.

With today's technology, we can assist industries with intelligent 3D plans that provide an accurate depiction of a building, site plan, or plot of land using BIM technology.

Moreover, 2D plans can be extracted from the 3D design to ensure consistency and reliability in data throughout a project's lifecycle. We know that if all phases of the BIM are constructed correctly, those plans can save you precious money and time on a building project.





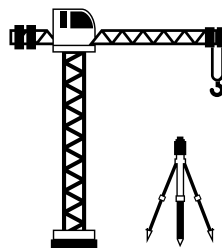
Site Engineering & Setting Out

Our setting out engineers have a vast amount of knowledge and experience when it comes to setting out projects. Our clients range from 1 plot self builds to multi-unit sites on behalf of housing developers.

All our setting out engineers hold valid and up to date CSCS qualifications and cards to enable us onto sites to carry out the site engineering.

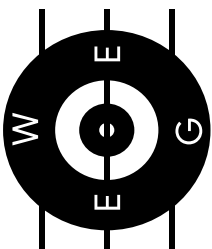
Our site engineering services consist of

Foundation setting out	Face of brick/block
Pile locations and levels	Grid lines
Bolt box locations	Roads, channels and highways
Manhole locations	Finished floor levels
Site survey control	Boundaries
Floor & concrete slabs	Boundary Lines
All external works	Solar panel location setting out



Underground Utility Surveys & GPR

Castle Surveys Ltd offer Ground Penetrating Radar (GPR) Surveys on projects ranging in size and complexity. We take pride in our thorough approach to mapping utilities and appreciate the need for a diligent, contentious approach. Our utility surveys are undertaken in line with the TSA & BSI specification PAS 128:2014 standard and is covered by either a Desktop Utility Record Search Report, Site Reconnaissance Survey, Detection Survey or a Verification Survey. Our utility surveys are processed by our dedicated CAD operators and drawings are produced in a timely fashion.



Survey Type

A: Verification

This survey can improve the confidence level of service location and types by actual visual inspection via access points such as manholes or by excavation and exposure.

B: Detection

Accompanied by a desktop utility report (type D). This survey is a non-penetrative survey conducted using geophysical techniques such as electromagnetic detection and Ground Penetrating Radar (GPR). Deliverables will be in the form of an AutoCAD file accompanied by a written report and photographic record.

C: Site Reconnaissance

Accompanied by a desktop report (type D) – it will involve a site reconnaissance visit to identify features that may indicate the presence of a service such as manholes, valves, utility markers, street furniture and excavation scars.

D: Desktop utility records search

A report identifying all known utility owners and their assets within an area including a list of affected and non-affected providers, long with plans, maps and diagrams provided.





CCTV Drain Surveys & Reports

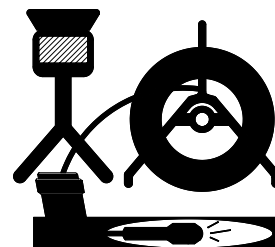
CCTV camera surveys enable inspections to be carried out in drains, sewers, ducting, culverts and tanks without the need for human access. Our highly qualified CCTV operators use state-of-the-art equipment to deliver high-resolution, full-colour surveys.

Benefits of a CCTV survey

- Accurate assessment. With our CCTV survey you can clearly and accurately view the condition of inaccessible assets. Our surveys form part of initial assessments and regular maintenance programmes
- Fast results. CCTV identifies damage and blockages quickly, so that the right maintenance can be carried out without delay.
- Safer, cheaper surveying. Using CCTV can reduce or remove the need for human access to confined spaces – making it a safer and cheaper option. See also Laser Scanning
- Integration with topographic survey for 3D analysis

CCTV can be used to survey numerous inaccessible areas

Sewers, Drain, Tanks, Chambers, Ducting, Culverts and Tunnels



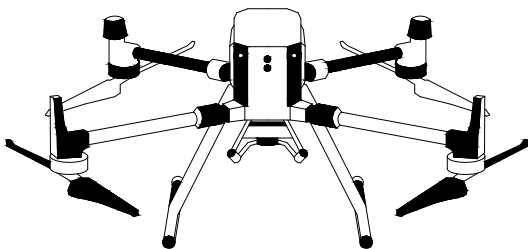
Drone Surveys & Inspection

UAV or drone surveys are an ideal way to rapidly capture data over a large site; the resultant dataset can be used for detailed design, analysis and visualization.

A UAV survey can provide a wide range of 2D/3D deliverables dependant on the scope of the project; these may include an ultra-high resolution Ortho-rectified mosaic image of the site, 3D mesh, point cloud or video fly-through.

Benefits of a drone survey

- Faster data acquisition. A UAV survey can capture high level of detail over large areas quicker than more traditional survey methods making it cost effective leading to fast project turn around for the client.
- Safer and cheaper surveying. UAV surveys have the ability to capture data without putting the surveyor in dangerous or inaccessible locations – making it a safe and cost effective option for your next project.
- Full 3D site model. A 3D model can be used for site visualisation along with providing a comprehensive dataset which can be returned to for future reference.





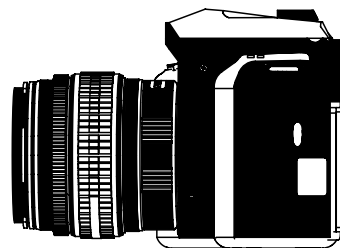
Accurate Verified Views & CGI

What are Verified Views?

Verified views are highly accurate photomontages that have been created using a methodology that is compliant with the Guidelines for Landscape and Visual Impact Assessment, third edition.

A verified view is a photograph captured at a specific recorded location and merged with a highly accurate 3D model of the proposed scheme and existing survey data of fixed structures within the photograph.

The result is a verified photomontage showing the proposal in context with the existing environment, which can then be used to assess the visual impact of a proposed scheme or development. They have become central to the Irish & UK planning system.



Construction Verification Surveys

Castle Surveys have expert knowledge and experience in providing Construction Verification As-Built Surveys.

By recording critical information to the Design process allowing Project Managers & Design Teams to document, track & verify positional accuracy/design tolerances across a Project life cycle

How we do it

Accurate Survey Data can provide vital information relating to the true position/accuracy of constructed elements when compared against the design information. We produce detailed As-Built Surveys to accurately determine and verify that the Actual or “True Position” meets the Design Specification.

Robotic Total Stations & HD Laser Scanning Technology are deployed to efficiently capture highly accurate & reliable data, ensuring we provide a solution to all your Construction Verification Survey requirements.





Core Values

We are a team

We have a collaborative all-inclusive approach to technical innovative problem solving, working in partnership with our clients to understand, consider, then deliver a quality product.

We are principled

We believe our reputation is the core of our business and our positive actions, are fundamental to who we are.

We are open and honest

We share information to improve ourselves, our colleagues and present clear and unbiased information to our clients based on our collective knowledge and experience.

We are cost-conscious

We strive to make smart and sustainable choices to improve cost effectiveness for our clients

We are committed

Committed to each other, our clients, the community, and the environment.

Why Choose Castle Surveys

Our Clients

Long standing partnerships and client advocacy is achieved through the delivery of great results and great relationships. We're not just a survey company. We provide the data that helps inform and underpin our client's plans.

Confidence

Because data reliability is paramount, you can trust our robust and reliable workflows. The utmost care in data management and the delivery of the highest possible quality products is not just a job for our team – it is a passion; giving you complete confidence in our results.

Innovation

As a company we are always investing in the latest technology within the geospatial industry enabling us to provide the best possible survey result to our clients. This helps us rapidly deploy survey teams nationally for your project.





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