



From Laser Scanning to Architectural As-Built Models How DCMS Brings Your Vision to Life



The Revolution of Laser Scanning in Architecture

In recent years, the architecture, design, and construction industries have witnessed a groundbreaking transformation with the advent of laser scanning technology. This innovative approach has revolutionized the way professionals capture and analyze existing spaces, offering unparalleled accuracy and efficiency. Whether you're an architect, interior designer, or construction firm, understanding the power of laser scanning and as-built models can elevate your projects to new heights.

What is Laser Scanning?



Laser

scanning is a cutting-edge technique that utilizes scanning lasers to create highly detailed, accurate, and comprehensive 3D models of existing spaces. This technology captures millions of data points, known as point clouds, which represent the physical characteristics of a building or environment. By using laser scanning, professionals can obtain precise measurements, detect hidden details, and gain a deeper understanding of the space they are working with.

The beauty of laser scanning lies in its ability to capture even the most intricate details with remarkable precision. From architectural elements to structural components, every aspect of a space is meticulously recorded, ensuring nothing is overlooked. This level of accuracy not only enhances the quality of the final deliverables but also minimizes errors and rework, saving time and resources.

The Role of DCMS in Transforming Spaces



[DCMS Network](#) is at the forefront of utilizing laser scanning technology to transform spaces. With their expertise and state-of-the-art equipment, DCMS brings your vision to life by creating detailed and high-quality as-built models. Their team of professionals understands the unique needs of architects, interior designers, and construction firms, and they are committed to delivering exceptional results.

By leveraging the power of laser scanning, DCMS ensures that every project starts with a solid foundation of accurate data. Their [scanning lasers](#) capture the entire space, leaving no detail

unnoticed. This comprehensive approach allows architects and designers to make informed decisions, visualize concepts, and communicate effectively with clients and stakeholders.

Benefits of As-Built Models

The advantages of as-built models are numerous and far-reaching. Here are some key benefits that make them indispensable in the architecture, design, and construction industries:

1. Improved Project Accuracy

With as-built models, professionals can work with precise measurements and detailed representations of existing spaces. This accuracy eliminates guesswork and reduces the risk of errors during the design and construction phases.

2. Reduced Errors and Rework

Traditional methods of capturing measurements and creating [blueprints](#) often lead to inaccuracies and discrepancies. As-built models provide an accurate and reliable reference, minimizing the need for costly rework and revisions.

3. Enhanced Communication

Effective communication among project stakeholders is crucial for successful project execution. As-built models serve as a common reference point, enabling clear and concise communication between architects, designers, contractors, and clients.

4. Streamlined Design and Planning

By having a detailed and accurate representation of the existing space, architects and designers can streamline the design and planning process. They can identify potential challenges, explore design options, and make informed decisions based on real-world data.

Real-Life Examples of DCMS Transformations

6 COMMON PROBLEMS

That We Solve For Our Clients

- No Reliable Existing Building Information
- Original Building Plans Not Digitized
- Lost Plans on Old Building
- Many Changes Have Occurred Since Last Plan
- Need Plans w/ Expedited Turnaround
- Looking for Highly Detail Orientated Service

WHY DCMS?



TIMELY SERVICE

Speed of response to provide the assessment including workflow, budget & timeline.



EFFICIENT SERVICE

Quality deliverables that will help our clients save time and proceed with certainty.



ECONOMIC SERVICE

Our Rates are Below Industry Standards.

DCMS has a proven track record of transforming spaces for architects, interior designers, and construction firms. Here are a few real-life examples that highlight their expertise and the impact of their services:

1. Architectural Renovation

They worked with an architectural firm on a historical building renovation project. By utilizing laser scanning technology, they captured the intricate details of the existing structure, including ornate moldings and unique architectural elements. This accurate representation allowed the

architects to preserve the building's historical integrity while incorporating modern design elements seamlessly.

2. Interior Design Overhaul

An interior design firm collaborated with DCMS to revamp a commercial office space. The laser scans provided a comprehensive view of the existing layout, enabling the designers to visualize the space and plan the new design with precision. The as-built models served as a valuable reference throughout the project, ensuring that the final design met the client's vision and functional requirements.

The Process From Scanning to Models



They follow a meticulous process to transform laser scans into detailed, high-quality as-built models. Here is a step-by-step guide to their process:

1. Get Prepared with Confidence

Their team begins by getting to know your space and selecting the most suitable high-tech equipment. Accuracy is their priority, ensuring that every detail is captured with precision.

2. Scanning Magic Awaits

Using their advanced scanning lasers, it captures every nook and cranny of your space. The result is an incredibly detailed 3D model and AutoCAD documents that provide a comprehensive view of the existing conditions.

3. Tidy Up the Points

Once the data is collected, it meticulously cleans up the point cloud to ensure clarity and accuracy. This step eliminates any noise or irrelevant data, leaving only the essential points

that contribute to the final model.

4. Model and Map with Flair

Their talented team transforms the point cloud into a sleek 3D model. This model serves as the foundation for creating detailed 2D plans that are ready for implementation. The combination of visual appeal and technical accuracy ensures that the final deliverables meet the highest standards.

5. Final Touches for Perfection

Quality is of utmost importance. Before delivering the blueprints, they conduct a thorough quality check to ensure that every detail is accurate and meets client expectations. This attention to detail guarantees a smooth and successful project execution.

Generally

The integration of laser scanning technology and as-built models has transformed the architecture, design, and construction industries. DCMS leads this change, offering expertise and advanced equipment to realize your vision. Laser scanning by DCMS ensures better accuracy, fewer errors, improved communication, and streamlined design and planning. Staying ahead of these trends allows professionals to expand possibilities in the built environment. Partnering with DCMS is beneficial for your next project, as their commitment to accuracy, detail, and client satisfaction makes them ideal for transforming spaces into blueprints.