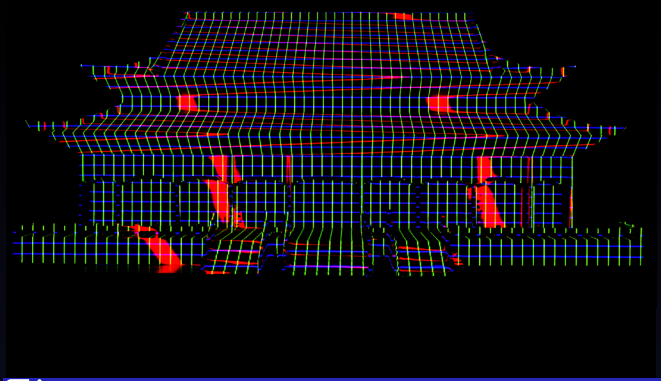
APPOTRONICS®

AIMapper

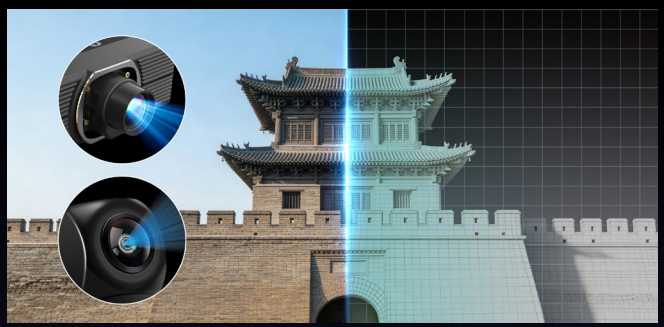
Sub-Pixel Auto Alignment & Blending

- Rapid auto alignment and edge blending for multiple projectors; projection fitting accuracy reaches sub-pixel level.
- Eliminates tedious manual calibration; completes multi-projector blending deployment in minutes, far more efficient traditional methods.
- Natively supports any complex 3D surfaces; algorithms compute and adapt automatically for seamless blending even on irregular surfaces.



Fully Automatic 3D Scene Reconstruction

- Projects patterns and captures via cameras to automatically sense and reconstruct a 3D model of the real scene.
- Restores complex curves and fine details to generate precise 3D scene models.
- Automatically obtains projection parameters for accurate blending alignment, providing a true 3D base for content creation.

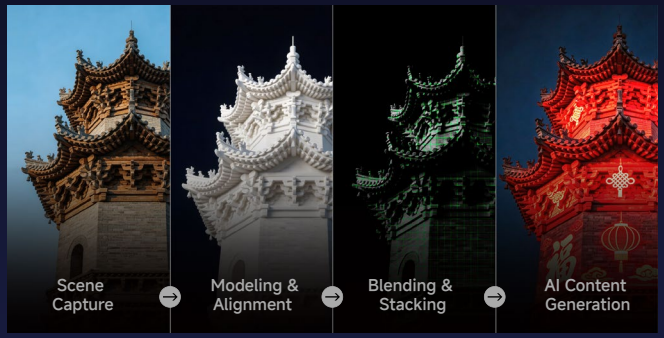


AI Content Generation

- AI automatically generates Mapping images and video materials perfectly fitted to the scene based on the real 3D model.
- No manual post-adaptation needed; natively matches 3D surface structures for what you see is what you get creation.
- Supports one-click rendering and output of materials for direct projection onto real scenes, greatly lowering content iteration costs.

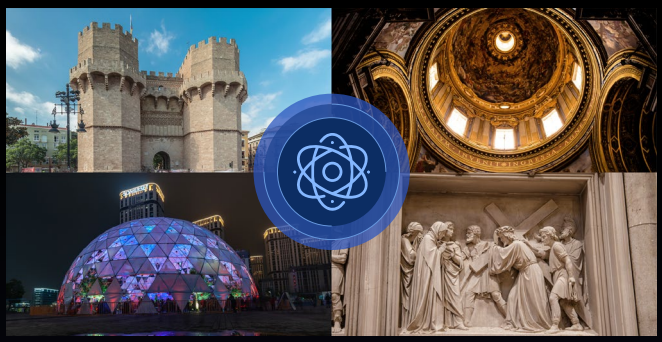
End-to-End Fully Automated Workflow

- Fully integrated automation: scene capture → modeling & alignment → blending & stacking → AI content generation.
- Traditional workflows take hours to days; AI Mapper completes full deployment in minutes, drastically shortening project cycles.
- No highly experienced engineers required; lowers professional barriers, enabling standardized replication and large-scale rollout of projects.



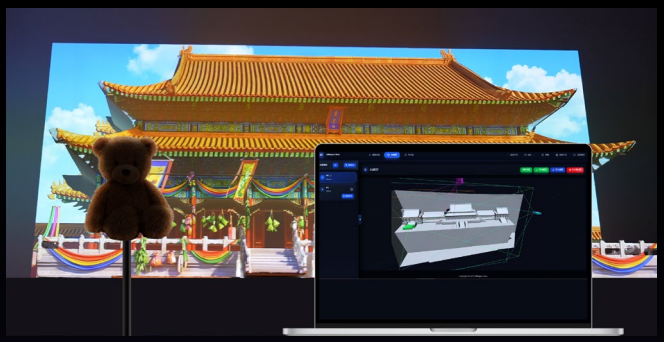
Support All Scenarios

- Compatible with any 3D surfaces / irregular carriers: buildings, landmarks, domes, ceilings, reliefs, and more.
- Supports automatic blending and stacking for multi-projector domes; ideal for cultural tourism lighting, commercial exhibitions, landmark shows, and more.
- Rescan to quickly update models when scenes change; algorithms auto-realign and regenerate content for easy operation, maintenance and expansion.

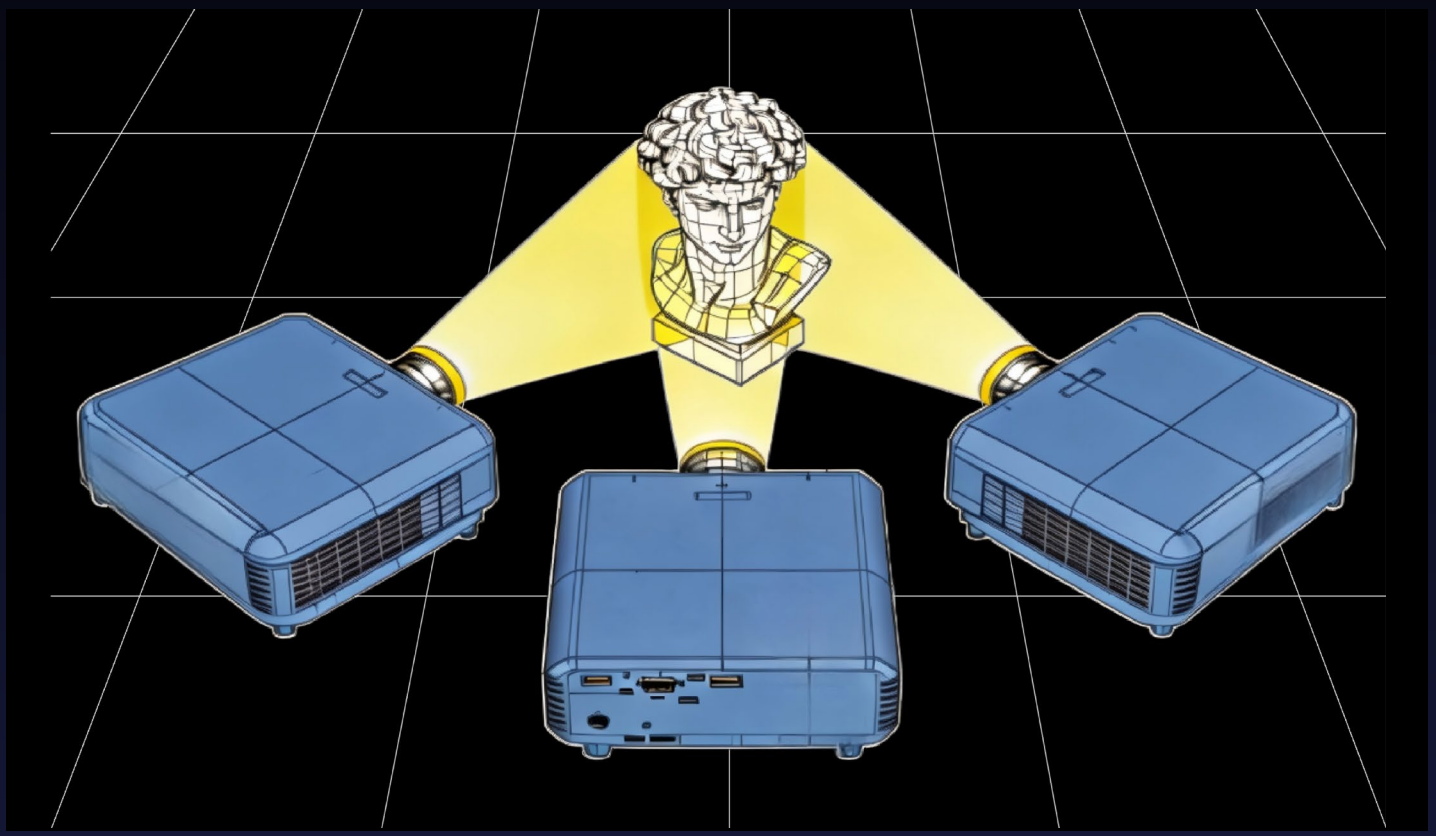


Diverse Functional Extensions for Advanced Needs

- Already includes manual alignment adjustment, dome blending, auto ghosting removal, tracking system integration, and more to satisfy basic and advanced creation needs.
- Future roadmap: circular blending, real-time human interaction, distributed rendering for ultra-large scenes; continuous upgrades for complex scenarios.
- Supports preset material point-and-drag matching, balancing automation efficiency and manual personalization.



Recommended Installation Layout Diagram



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