

▶ Benchmark

Customer Case Study

KeyMe Key Kiosk

KeyMe

Client: KeyMe, Inc.

Product: Cloud-based Key Management and Duplication System

A Revolutionary Idea

Dubbed a “locksmith in a box,” KeyMe introduces an automated key-cutting and digital storage system within a customer-friendly kiosk. Users can save an image of a key using the KeyMe kiosk or integrated app and no longer need a physical key to make copies. With a fingerprint and credit card, the system prints a duplicate key or shares the file with a locksmith so users never get locked out again.

Challenges

The system had to be fast, full-service, automated, robust, easy-to-use but it also had to be secure, efficient, extremely accurate and hold inventory for more than six different key types.

The KeyMe kiosk demanded seamless integration of complex technologies and multiple facets of operation. An idea this revolutionary needed to reach the market as soon as possible.

Benchmark Capabilities

- Product Design and Launch
- Test and Automation
- Design for Excellence (DFx)
- Robotics
- Electronics
- Intelligent Sensors
- Software Integration

Benchmark Solutions

Combining the power of electronics, robotics, optics, biometric sensors, and inventory control, Benchmark created an eye-catching, easy-to-use system with accuracy that exceeds most professional locksmiths.

By leveraging Benchmark's design, engineering and automation expertise, KeyMe was able to fast-track development while refining the product along the way.

Mechanics - Our ability to pair existing hardware with advanced technologies assured precise engineering. The KeyMe kiosk can restore worn keys to their original specs.

Optics - To mirror the scanning capability of the KeyMe app, kiosks include refined optics technology allowing customers to scan key profiles on-site and store images for future access.

Robotics - Rugged harnesses and sophisticated robotics allow the system to match and print any key in seconds.



Electronics - Our electronics engineering team identified and corrected a glitch in the customer's purchased circuit board to keep product development on track.

Software - Integrating KeyMe's proprietary software into the kiosk design, customers can scan a key, and pick it up at any kiosk location.

Sensors - Biometric sensors in the kiosk store encrypted data and user fingerprints for the most secure key retrieval available.

Inventory - Managing both digital scans of customer keys and a large physical inventory of key types, the system uses intricate algorithms to assure the exact key match every time.

Maintenance - The kiosk is built using a limited number of moving parts and easy-access to key storage to keep maintenance at a minimum.

Usability - An intuitive user interface and simple instructions allow customers to store and duplicate keys at the touch of a button, and customize keys with their favorite sports team or design.

Opening Doors

Benchmark's ability to take a prototype from concept to market helped KeyMe launch its unique system in select field test retail sites quickly and cost-efficiently. With the success of the test sites, Benchmark delivered the functionality needed to allow KeyMe to expand its network across the US.

About Benchmark

Since 1979, Benchmark has established a legacy of best-in-class integrated electronics manufacturing services, engineering and design services.

Our customized full-system solution and global footprint of certified facilities provide a dedicated team to optimize and support all facets of development and production.

As a top 10 EMS provider, let us help you bring your products to market quickly and efficiently.

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