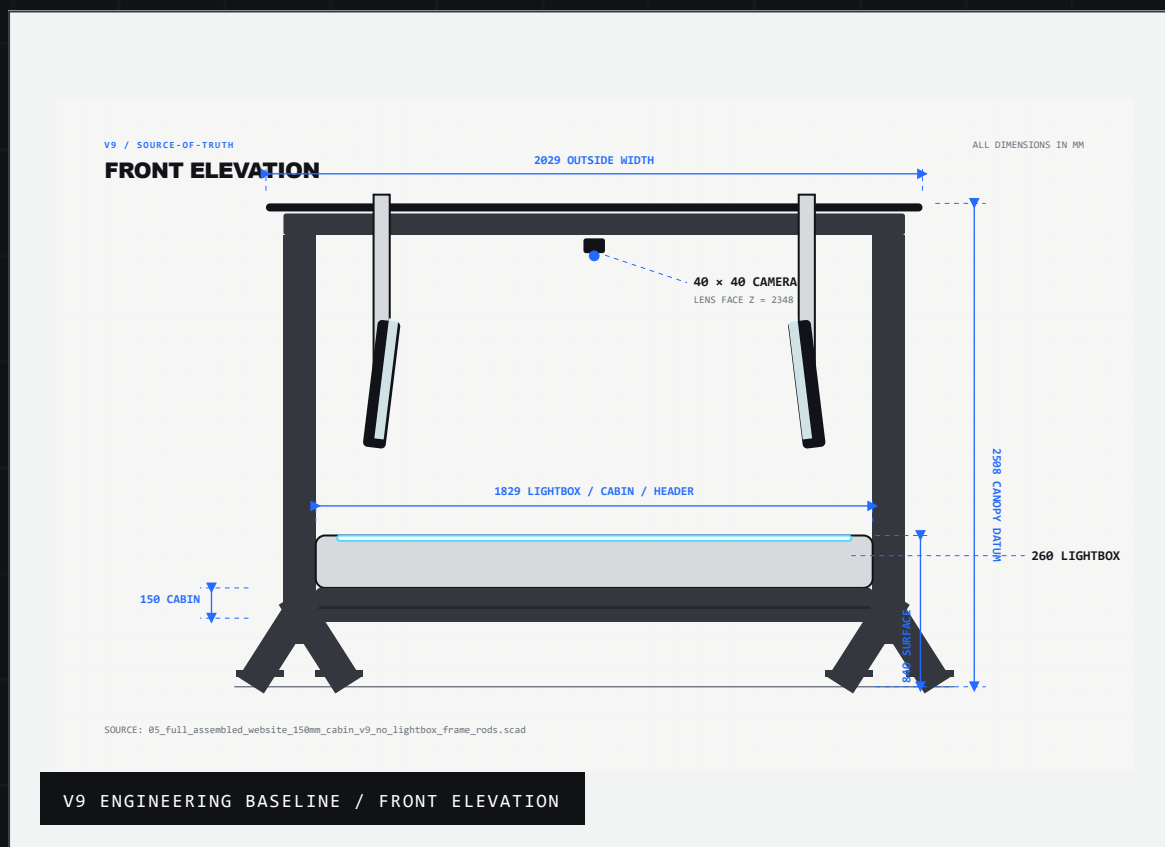


CONTROLLED FLAT-LAY PRODUCT PHOTOGRAPHY

CatalumeX One

A prototype-stage workstation combining a diffused lightbox, controlled lighting, overhead capture and a guided workflow for repeatable catalogue imagery.



PRODUCT STATUS

Clear about what works now.

WORKING NOW

Mechanical capture workstation

- Diffused lightbox and controlled lighting
- Overhead camera path
- Guided placement, capture and image review demonstration

IN TESTING

Output preparation

- Crop, alignment and correction
- Cleanup and export preparation
- Controlled pilots with representative customer products

PLANNED

Production readiness

- Production engineering and manufacturing
- Installation, service and operator training model
- Direct store and production-system integrations

PRODUCT ENVELOPE

Current prototype focus

- Flat-lay apparel and trousers
- Accessories and footwear that fit the lightbox envelope
- One guided operator workflow remains a pilot validation item

01 / PLACE	02 / CAPTURE	03 / REVIEW	04 / PREPARE
Position the product on a controlled illuminated surface.	Use repeatable framing, lighting and an overhead camera path.	Inspect the captured image within the guided workflow.	Evaluate processing and export preparation during a pilot.

CAMERA, COMPUTE AND ELECTRICAL ARCHITECTURE

Inside the system.

A high-level view of the verified V9 prototype architecture. Component selections remain prototype-qualified until the production design is frozen.

01 / CAMERA

Controlled overhead capture

- 48 MP-class overhead capture path
- Compact 40 × 40 × 24 mm camera enclosure
- Downward-facing quick-release mount with concealed 1/4-20 stud
- Lens face positioned 1,508 mm above the lightbox surface

02 / SENSOR

Prototype imaging configuration

- High-resolution sensor class for catalogue capture
- Fixed top-down alignment over the illuminated product area
- Controlled lighting supports repeatable colour and exposure evaluation
- Exact sensor SKU, lens and field of view remain configuration-dependent

03 / ELECTRONICS

Edge compute and control

- Raspberry Pi 5 edge-compute platform
- USB 3 hub, active repeater, control board and switching relay
- Recommended 5 m active USB 3 camera route
- Removable service tray with twin 80 mm ventilation fans

04 / ELECTRICAL

Separated power architecture

- AC inlet, rotary cutoff, relay and AC spike/distribution stage
- 24 V LED SMPS feeding four fused lightbox zones
- 18-row LED lightbox plus four bi-colour top lights
- Terminal bank, protective-earth bar and separated AC/DC-data raceways

CAPTURE

Camera and sensor

TRANSFER

Active USB 3 path

COMPUTE

Raspberry Pi 5

CONTROL

Control board and relay

ILLUMINATE

24 V lightbox zones

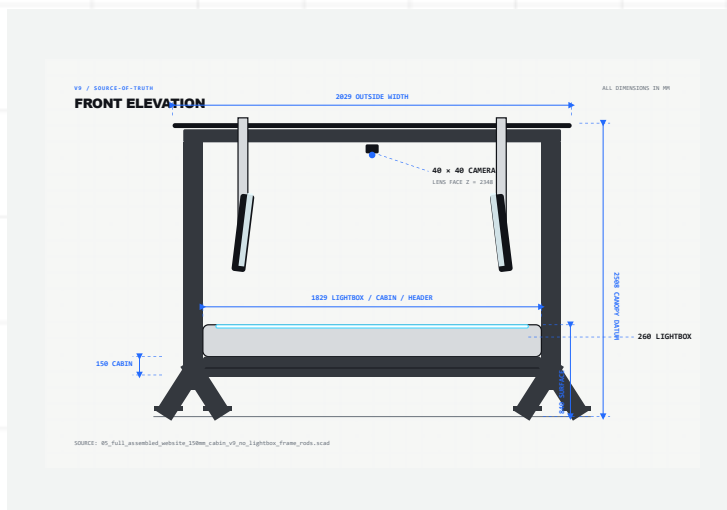
PROTOTYPE QUALIFICATION

Final sensor and lens selection, mains input range, total connected load, protection ratings, thermal validation and regulatory certification are not yet published.

VERIFIED V9 ENGINEERING BASELINE

Prototype dimensions.

PORTAL OUTSIDE WIDTH 2029 mm	LIGHTBOX ENVELOPE 1829 × 1219 mm
PORTAL TOP DATUM Z2500	CAMERA LENS FACE Z2348



Evaluate with your catalogue

The proposed pilot uses up to 20 representative products to assess placement, controlled capture, review and export preparation with your team.

1. Select representative products and workflow constraints.
2. Observe the controlled capture path.
3. Review output consistency and operator fit.
4. Record processing, installation and integration requirements.

IMPORTANT

Site clearance, service access, final export formats, processing benchmarks, installation scope, training terms and production purchase terms are not yet published. Confirm these items through a demonstration or pilot discussion.