

Smart Vision POS & Self-Checkout Kiosk

AI-Powered Camera Product Recognition Retail System

Next-Generation Retail Automation: The Smart Vision POS system revolutionizes retail purchasing and store management. Utilizing advanced Artificial Intelligence and computer vision, this cashierless self-checkout terminal automatically identifies store items in real-time without requiring traditional barcode scans, delivering unmatched speed, convenience, and operational value to modern retailers.



Product Overview – Full Kiosk Unit

Model: Noor Al Fikr Vision POS - Model VIS-SC

Isolated Background Shot (Picture 1)

Key System Advantages:

- **Barcode-Free AI Recognition:** Instant visual product identification via dual high-precision cameras.
- **Autonomous Self-Checkout:** Operates seamlessly without cashier intervention to minimize queue times.
- **Basket Weight Verification:** Integrated dual-load cell platforms prevent checkout errors and loss.
- **Real-Time Inventory Sync:** Instant item addition to cart with automated stock level updates.
- **Enterprise Compatibility:** Connects effortlessly with accounting, CRM, and cloud management systems.
- **Universal Payment Gateways:** Supports card terminals, mobile NFC, QR code, and automated payments.

Core Operational Capabilities

AI Optical Scanner Identifies unpackaged and packaged products with image recognition.	Inventory Management Live integration with stock levels and ERP warehouse databases.
Accounting & CRM Sync Automated ledger postings and customer loyalty profile linking.	Cloud Backup & Updates Continuous over-the-air updates, model retraining, and cloud backup.

Technical Specifications & Component Detail

Dual Camera AI Vision Module & Touchscreen Display Head



Head Unit Detail — Camera & Touchscreen (Picture 2)

Vision Head Unit & AI Camera System (Picture 2):

The top module houses a high-definition interactive touchscreen display alongside twin calibrated AI vision cameras positioned on extended side arms.

Camera Specs: Dual Wide-Angle AI Cameras with Anti-Glare LED Lighting.

Display: High-Contrast Multi-Touch Capacitive Display.

Processing: On-Device Neural Processing Unit (NPU) for zero-latency item recognition.

Complete Technical Specifications Table

Feature / Capability	Specification Detail	Business Benefit
AI Product Recognition	Camera-based image recognition without barcodes	Speeds up checkout by up to 3x
Weight Verification	Dual-load cell basket weight sensor integration	Prevents fraud & mismatched items
System Integration	APIs for Inventory, Accounting & CRM software	Unified real-time enterprise sync
Payment Options	Automated self-payment, POS terminals & NFC	Frictionless customer checkout
Cart Management	Real-time instant item addition & catalog support	Handles high-volume SKU catalogs
Hardware Platform	Executable on standard commercial retail hardware	Lower total cost of ownership (TCO)
Cloud Infrastructure	Cloud storage, automated updates & remote backup	Zero downtime with seamless updates

Contact Noor AI Fikr Commercial Team for Demonstrations & Pricing:

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