JOYA SMART & SMART+

Re-shaping the Future of Self-Shopping

DATALOGIC

- AI POWERED
- NFC PAYMENT
- GREEN SPOT
- WIRELESS CHARGING
- +12 h
- IP54 DUST & WATER PROTECTION
- BUILT TO LAST
- WiFi 6E CERTIFIED
- Bluetooth 5.3
- Q QCM4490
- AUGMENTED REALITY
- 1m SCAN RANGE
- E OC EASE OF CARE
- DATALOGIC SHIELD
- Powered by DATALOGIC MOBILITY SUITE

JOYA SMART+

JOYA SMART

android enterprise recommended

G GMS Certified

ANDROID 15

ARCore

SHOPPING HAS NEVER BEEN SO EFFORTLESS AND IMMERSIVE

Experience an unparalleled self-shopping journey with Joya's large and vibrant 5-inch display, delivering a truly immersive view for enhanced product interaction and navigation. Featuring Wi-Fi 6E and advanced no-infrastructure required indoor localization, shoppers enjoy seamless connectivity and a guided, optimized path through the store. GS1 Digital Link support provides instant access to rich, real-time overlaid product details; while auto-scan mode enables hands-free shopping experience for ultimate speed and convenience.

DESIGNED TO LEAD, BUILT TO LAST

With its modern design, the Joya Smart family offers superior ergonomics in two form factors to provide the best, most intuitive user experience for every shopper. Its rugged IP54-rated body and high drop resistance make it ideal for environment where frequent drops and spills are inevitable. Designed for hygiene and uptime, it features chemical-resistant plastics for easy disinfection and wireless charging to eliminate contact issues. Corning™ Gorilla™ Glass protects the display and scanner, while customizable colors align with any retail brand.

SCAN, PAY AND GO – SHAPING EVERY SHOPPER'S JOURNEY

The shopping journey begins with an easy release from the cradle, triggered by scanning a loyalty card or NFC tap-to-release on device. Best-in-class barcode reading ensures fast and flawless scanning, capturing even poorly printed or damaged barcodes. Datalogic's exclusive Green Spot technology and smiley LED under the display give immediate visual feedback. Integrated NFC technology allows shoppers to tap-to-pay with their card or digital wallet on the device, speeding up check-outs.

AI-POWERED PROTECTION FOR EVERY BASKET

The first self-scanning device with integrated Smart Cart Mode functionality, featuring Datalogic's unique Shop Guard AI technology for in-store loss prevention. Powered by a cart monitoring rear-facing camera, the system detects both unintentional shopper mistakes and potential loss, enhancing basket integrity. During spot checks, this AI assistance dramatically speeds up the rescan process by instantly showing the associate the image of unscanned items, providing new tools to improve checkout experience.

MAXIMIZE YOUR INVESTMENT WITH JOYA SMART

Wireless charging on both cradles and device minimizes downtime and maintenance, reducing total cost of ownership while keeping self-shopping running smoothly. Customers will enjoy industry-leading comprehensive hardware and software support, with continuous updates and access to cutting-edge tools from our Datalogic Mobility Suite.

SMART SHOPPING, SUSTAINABLE FUTURE

Device and accessories are crafted with recycled materials and delivered in recyclable packaging. Datalogic's latest solution is designed to reduce waste and energy helping retailers to set it up without changing existing walls. Easy to repair and efficient to power, it's the smart choice for retailers who care about performance and the planet.

FEATURES

- Fast processor and high-speed connectivity: Qualcomm 4490 platform | Wi-Fi 6/6E and Bluetooth 5.3
- Superior scanning performances: Datalogic HalogenTM DE2121-DL scan engine with Green Spot technology
- Integrated wireless charging system: reduce downtime and maintenance having no contacts on devices and cradles
- Tap & Go - Pay in seconds with just a tap on display thanks to integrtated NFC for contactless payment
- ShopGuard: embedded AI algorithms that use computer vision via the integrated rear-camera to validate scanned items, preventing unintentional mistakes and helping store associates to quickly find only the items to be re-checked in any customer's cart.
- Two form-factor models crafted for intuitive ergonomics - IP 54 certified, Multiple 1.3/4ft drops to concrete, 500 0,5m/1.6 ft tumbles at room temperature without protective boot – customizable colors
- EASEOFCARE Service Plans - offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI. Datalogic Shield, a service for Android security patches and OS upgrades is included with EASEOFCARE.

INDUSTRY - APPLICATIONS

- **Retail:** Grocery stores; super and hyper markets; Do-it-Yourself stores, Large hardware stores; Department stores, Cash-and-Carry stores.

- **Shopper Applications:** Self-Shopping, Frictionless self-checkout, Product information, Price checking, Product availability, Loyalty point look up, Dynamic couponing.

- **Store Associate Applications:** Online order click and collect picking, Shelf replenishment, Store inventory, Assisted sales, Markdowns/markups, Stock lookups, Queue busting with mPOS, inventory management.

JOYA SMART & SMART+
TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

Local Area Network (WLAN)	Wi-Fi 6e IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/e/h/i/k/r/v/w/mc; Frequency range: Country dependent, typically 2.4 GHz, 5 GHz and 6 GHz bands; 2x2 MIMO; WPA3 Enterprise 192-bit mode supported
Personal Area Network (WPAN)	Bluetooth wireless technology v5.3 (Classic Bluetooth wireless technology and BLE)
NFC Communication	Support for the following standards: Tag types 2/3/4/5 (ISO14443-4 A/B; ISO15693; Mifare; Felica) Card emulator. Contactless payments and Apple ECP protocol supported. EMVCo RR PCD Level 1 Compliant Strongbox Secure Element

ELECTRICAL

Battery	Replaceable battery pack with rechargeable Li-Ion Battery 3,500 mAh capacity
Wireless Charging	WPC Qi EPP compliant; 10W charging

ENVIRONMENTAL

Drop Resistance	Multiple 1.3/4ft drops to concrete across operative temperature without rubber boot per enterprise standard according to MIL STD 810H. Multiple 1.5m/6ft drops to concrete over operating temp (-10°C to 50°C/14°F to 122°F) with rubber boot according to MIL STD 810H.
Tumbles	1000 0,5m/1.6 ft tumbles at room temperature without protective boot, meets and exceed IEC 60068-2-32 Procedure 2 specification. 500 1m/3.2 ft tumbles at room temperature with rubber boot, meets and exceed IEC 60068-2-32 Procedure 2 specification.
Sealing	IP54
Chemical Resistance	General purpose chemical cleansers: Chemical agents against which the device is resistant; sopropyl alcohol 70% (IPA) / Alcohol Wipes 70% Glassex with ammonia / Formula 409® Glass and Surface Cleaner Glassex with ammonia / Windex® Water solution of Sodium Hypochlorite 0,8% / Clorox® Bleach Ethyl alcohol 70% Hydrogen peroxide 3%
Temperature	Operating: -10 to 50 ºC / 14 to 122 ºF Storage/Transport: -40 to 70 ºC / -40 to 158 ºF
ESD	15kV air discharge / 8kV contact discharge

PHYSICAL CHARACTERISTICS

Dimensions	214 mm x 77.8 mm x 104 mm / 8.42 in. x 3.06 in. x 4.09 in.
Weight	With Battery: 303g/ 10.68 oz.
Primary Display	5 inch color HD (1280x720); optically bonded to touch panel glass; 450 NITS
Keys	Physical Keys: 1 scan trigger
Touch Panel	Touch Screen: 5 points multi-touch capacitive panel with Gorilla Glass 3 and optical bonding; Support for gloves and stylus; water drops rejection and antifingerprint surface finishing

READING PERFORMANCE

Camera	**Rear Camera:** Resolution: 13 megapixel; Auto focus **Illumination:** User controllable LED flash (torch mode);
Scan Engine	**Halogen™ DE2121-DL 1D/2D** scan engine; **Datalogic's 'Green Spot'** for good-read feedback;

SENSORS

Vibration	Software programmable for duration and intensity
Accelerometer	3-Axis accelerometer to detect orientation
Gyroscope	Senses angular velocity
Magnetometer	e-compass for direction and orientation detection
Barometer	Atmospheric pressure / Z-location
ToF	Time of Flight

LOCATIONING

Indoor locationing	Integrated IMU sensors compatible with third party indoor locationing software solutions

INTERFACES

Interfaces	High Speed USB 2.0 (Type-C) for device maintenance

AUDIO

Microphones	1x mic
Loudspeaker	1x speakers 0,8W (1W short term) and 92dBA

SAFETY & REGULATORY

Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use.
Environmental Compliance	Complies to EU RoHS

SOFTWARE

DATALOGIC MOBILITY SUITE – Discover more on: datalogic.github.io

Protection	Shield - Android Security Updates; Launcher - to lockdown device to kiosk mode; Entreprise Browser - to web-browse only to a set of approved URLs; Integrity KIT - to safeguard HW interfaces
Configuration	Scan2Deploy Studio - to configure and stage device, OEMConfig - for UEM/EMM Compatibility, AE QR Code Enrollment - for easy EMM/UEM enrollment
Development	SDKs (Java, Kotlin, Xamarin, .NET MAUI JavaScript), Visual Formatter - a no-code platform for barcode formatting, Wedge - a configurable barcode scanning input method
Optimization	SoftSpot - a draggable touch scanner trigger; Logger - to collect advanced device events log; Wi-Fi Guard - to collect Wi-Fi data and statistics; Battery Manager to select from different charging policies; Snap OCR - Rear or scanner camera digitizes text, streamlining data entry and label parsing

Additional Features

Self-Shopping software	Compatible with Self-Shopping software from all major retailers and ISVs. Seamless integration with Datalogic's Shopevolution™ and EasyShop software platforms.
Provisioning	Android Zero-Touch, Android Enterprise QR Code, NFC Bump, EMM Token, DPC Identifier enrollment
UEM/EMM	SOTI MobiControl, VMWare Workspace One, Microsoft intune, 42Gears Sure MDM, Ivanti Neurons, Ivanti Avalanche, and any OEM Config compliant UEM/EMM

SYSTEM

Memory	6 GB RAM / 64 GB Flash Storage
Microprocessor	Qualcomm QCS4490 Kryo Octa-core 2.4 GHz
Operating System	Android 15, upgradeable up to Android 18
Real-Time Clock	Time and date stamping under software control

WARRANTY

Warranty	1-Year Factory Warranty Additional Datalogic EaseofCare services available

ACCESSORIES

- 94A150138 – Joya Smart & Smart+ 3 SSD
- 94A150139 – 94A150140 Joya Smart & Smart+ SSD w/locking
- 94ACC0427 Trolley Holder
- 94ACC0428 – 94ACC0429 – 94ACC0430 *3 SSD Wall Bracket kits
- 94ACC0432 Belt Holster
- 94ACC0434 Screen protector

- 94ACC0433 Battery
- 91ACC0045 Key for cradle
- 94ACC0431 Rubber boot

Existing accessories shared with Memor 30-35 or Memor 12-17

- 94ACC0380 Power Supply, for Charging Docks
- 95A051041 Power Cord, Europe
- 91ACC0049 Daisy chain connector (5 pieces)
- 91ACC0045 Memor 1 / Joya Touch Cradle/Dock Unlock Key (5 pcs)
- 95ACC1113 Power Cord, NA
- 95ACC1212 Power Cord, Japan
- 95ACC1213 Power Cord, UK
- 95ACC1215 Power Cord, Australia
- 94ACC0383 Power Wall Adapter with 4 regional plugs – USB A
- 94ACC0327 USB-A to USB C cable / 1.2m long