

JOYA SMART & SMART+

Re-shaping the Future of Self-Shopping



JOYA SMART+



JOYA SMART



GMS
Certified



FEATURES

- Fast processor and high-speed connectivity: Qualcomm QCS4490 platform | Wi-Fi 6/6E and Bluetooth 5.3
- Superior scanning performances: Datalogic Halogen™ 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 integrated 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.

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-LOSS PREVENTION MONITORS EVERY ITEM IN YOUR CART

Joya Smart+ is the world's first self-scanning device designed to actively address in-store Loss Prevention. It ensures a smoother and more comfortable shopping experience for consumers, a safer store environment, reduced operational stress for staff, and greater overall efficiency at checkout. Thanks to the AI-powered rear-camera that monitors the cart in real time, the system detects both unintentional customer mistakes and potential loss situations, helping retailers reduce shrinkage, missed scans, or operational errors.

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

Datalogic's latest solution is designed to reduce waste and energy consumption, enabling retailers to set up the system without modifying existing walls. Devices and accessories are made with recycled materials and delivered in recyclable packaging. Easy to repair and energy-efficient, it is the smart choice for retailers who care about both performance and the planet.

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 Certified; 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 °C / 14 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
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;

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

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

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. Enterprise Browser – for secure browsing. Integrity KIT - to safeguard HW interfaces.
Configuration	Scan2Deploy - configure, stage and enroll device. OEMConfig - for UEM/EMM compatibility. AE QR Generator - for easy EMM/UEM enrollment. DockManager - manage firmware, locking, and settings of dock. CradleTool – Configure a series of docks. Wi-Fi QR Generator – Enroll device with Wi-Fi network.
Development	SDKs (Java, Kotlin, Xamarin, .NET, MAUI, JavaScript). Visual Formatter – visually code flow for barcode formatting. Wedge - configurable barcode scanning input methods.
Optimization	Logger - collect advanced device events log. Wi-Fi Guard - collect Wi-Fi data and statistics. Battery Manager – collect battery usage data and optimize power, including Enterprise Battery Saver - optimize battery consumption by tailoring device behavior to contextual triggers, and Smart Charge - extend battery life by syncing device charge schedule to your operations. Snap OCR - digitizes text, streamlining data entry label parsing. Pocket Mode - prevents mis-operation of the touch screen while the device is in your pocket
Empower	SoftSpot - draggable touch scanner trigger. QuickBoard – customizable on-screen virtual keyboard. Aladdin - seamless integration of the Datalogic CODiScan.

SELF-SHOPPING SUITE: Shopevoluion 8 & EasyShop	
Shopping Experience	Shopper onboarding • Digital shopping lists • Product search & navigation • Personalized promotions • Guided shopping • Scan & Go
Checkout & Payment	Self-checkout • Mobile payment • Tap-to-Pay • POS integration • Digital receipts • Frictionless checkout
Loss Prevention	AI-powered cart rescans • Intelligent anomaly detection • Dynamic audit rules • Risk-based customer verification • Shrinkage reduction
Store Operations	Device & session management • Real-time monitoring • Analytics & reporting • Store configuration • Retailer integrations • Shopevolution Cloud services
Additional Features	
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 and any OEM Config compliant UEM/EMM, Terminal Emulator and PTT; Compatibility Highlight Ivanti Velocity, StayLinked Smart TE, Zello PTT

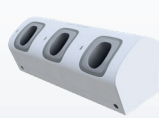
SYSTEM	
Memory	6 GB RAM / 64 GB Flash Storage
Microprocessor	Qualcomm QCS4490 Kryo Octa-core 2.4 GHz
Operating System	Android 15, upgradeable up to Android 19
Real-Time Clock	Time and date stamping under software control

WARRANTY	
Warranty	1-Year Factory Warranty Additional Datalogic EaseofCare services available

ACCESSORIES



• 94A150148 - Joya Smart & Smart+ 3 SSD



• 94A150138 Joya Smart & Smart+ 3 SSD



• 94A150149 - 94A150150 Joya Smart & Smart+ SSD w/o locking-w/locking



• 94A150139 - 94A150140 Joya Smart & Smart+ SSD w/o locking-w/locking



• 94ACC0427 Trolley Holder



• 94ACC0428 - 94ACC0429 - 94ACC0430 *3 SSD Wall Bracket kits



• 94ACC0432 Belt Holster



• 94ACC0434, 94ACC0463, Screen protector for JS-JS+



• 94ACC0433 Battery

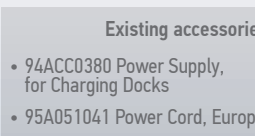


• 91ACC0045, 94ACC0462 Key for cradle

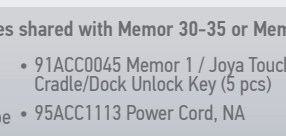


• 94ACC0431, 94ACC0461 Rubber boot Joya Smart- Joya Smart+

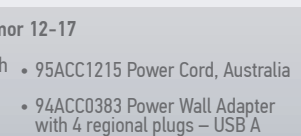
Existing accessories shared with Memor 30-35 or Memor 12-17



• 94ACC0380 Power Supply, for Charging Docks



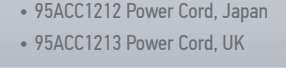
• 91ACC0045 Memor 1 / Joya Touch Cradle/Dock Unlock Key (5 pcs)



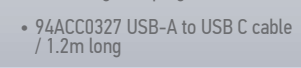
• 95ACC1215 Power Cord, Australia



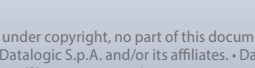
• 95A051041 Power Cord, Europe



• 95ACC1113 Power Cord, NA



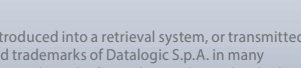
• 94ACC0383 Power Wall Adapter with 4 regional plugs – USB A



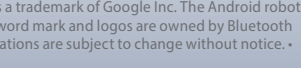
• 91ACC0049 Daisy chain connector (5 pieces)



• 95ACC1212 Power Cord, Japan



• 95ACC1213 Power Cord, UK



• 94ACC0327 USB-A to USB C cable / 1.2m long