

JOYA SMART & SMART+

Re-shaping the Future of Self-Shopping



AI POWERED



NFC PAYMENT



GREEN SPOT



WIRELESS CHARGING



DUST & WATER PROTECTION



BUILT TO LAST



CERTIFIED



Bluetooth 5.3



QCOM 4490



AUGMENTED REALITY



SCAN RANGE



EASE OF CARE



DATALOGIC SHIELD

Powered by
DATALOGIC
MOBILITY SUITE**JOYA SMART +****JOYA SMART**GMS
Certified**ARCore**

FEATURES

- Fast processor and high-speed connectivity: Qualcomm 4490 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 1.3/4 ft 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-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.

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		READING PERFORMANCE	
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	Camera	Rear Camera: Resolution: 13 megapixel; Auto focus Illumination: User controllable LED flash (torch mode);
Personal Area Network (WPAN)	Bluetooth wireless technology v5.3 (Classic Bluetooth wireless technology and BLE)	Scan Engine	Halogen™ DE2121-DL 1D/2D scan engine; Datalogic's 'Green Spot' for good-read feedback;
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	SENSORS	
ELECTRICAL		Vibration	Software programmable for duration and intensity
Battery	Replaceable battery pack with rechargeable Li-Ion Battery 3,500 mAh capacity	Accelerometer	3-Axis accelerometer to detect orientation
Wireless Charging	WPC Qi EPP compliant; 10W charging	Gyroscope	Senses angular velocity
ENVIRONMENTAL		Magnetometer	e-compass for direction and orientation detection
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/5ft drops to concrete over operating temp (-10°C to 50°C/14°F to 122°F) with rubber boot according to MIL STD 810H.	Barometer	Atmospheric pressure / Z-location
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.	ToF	Time of Flight
Sealing	IP54	LOCATIONING	
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%	Indoor locationing	Integrated IMU sensors compatible with third party indoor locationing software solutions
Temperature	Operating: -10 to 50 °C / 14 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F	INTERFACES	
ESD	15kV air discharge / 8kV contact discharge	Interfaces	High Speed USB 2.0 (Type-C) for device maintenance
PHYSICAL CHARACTERISTICS			
Dimensions	214 mm x 77.8 mm x 104 mm / 8.42 in. x 3.06 in. x 4.09 in.	AUDIO	
Weight	With Battery: 303g/ 10.68 oz.	Microphones	1x mic
Primary Display	5 inch color HD (1280x720); optically bonded to touch panel glass; 450 NITS	Loudspeaker	1x speakers 0,8W (1W short term) and 92dBA
Keys	Physical Keys: 1 scan trigger	SAFETY & REGULATORY	
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	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 - 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 dragable 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 Shapevolution™ 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	Memory	
Microprocessor	Qualcomm QCS4490 Kryo Octa-core 2.4 GHz	Microprocessor	
Operating System	Android 15, upgradeable up to Android 18	Operating System	
Real-Time Clock	Time and date stamping under software control	Real-Time Clock	
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					
<ul style="list-style-type: none"> • 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 											