

# MAGELLAN 3600VSi & MAGELLAN 3700HSi Single-Plane Scanners

Smarter scanning.  
Faster checkout. Green design.  
Always one scan ahead.



# WHY CHOOSE MAGELLAN 3600VSi?

## VERTICAL SINGLE PLANE

*High-performance, intuitive scanning for space-constrained self-checkout environments*

Perfect for space-constrained Self-Check Out (SCO) stations and thin SCO designs that need a large scan envelope

Preferred by retailers aiming to increase throughput and minimize footprint

Designed for fast scanning of 10+ items per transaction

High motion tolerance keeps SCO lines moving

Large scan window & wide field of view for intuitive shopper interaction

Ideal for limited-space environments where cashier counters must balance compact, dimensions with speed and ease of use



## MAGELLAN 3600VSI-3700HSI APPLICATIONS

**Grocery**



**Discount and Convenience stores**



**Convenience Specialty Retail (DIY, Fashion, Drug)**



# WHY CHOOSE MAGELLAN 3700HSi?

## HORIZONTAL SINGLE PLANE

*Ideal for maximizing counter space for a clean design or to allow space for promotional items*

Rugged sapphire glass and stainless steel top for long-lasting use

Maximizes counter space for impulse buys, promotions, and upsells

More ergonomic scanning (vs vertical) with less item rotation and faster transactions

Intuitive design for on glass imaging of ID's

Enables a clean aesthetic and a flexible, customer-facing checkout experience



Embedded in-counter, bonnet-free design for a cleaner checkout

Ideal when retailers have minimal counter space and want to keep it free for checkout items



**Discount stores**



**Grocery**



**Convenience Stores**



**DIY**



# MAGELLAN 3600VSi & 3700HSi: MAIN BENEFITS



## STRENGTHEN INVENTORY ACCURACY AND LOSS PREVENTION WITH RFID

An integrated RFID antenna enables seamless tracking of barcode-less items, ensuring tighter inventory control, better traceability, and reduced shrink across stock control, checkout, and returns. RFID offers a more advanced and robust loss prevention solution over conventional EAS because each item can be tracked in a database for more secure inventory management and returns.



## BOOST SECURITY AND PRODUCTIVITY

A built-in 1 MP color camera enables item recognition and checkout surveillance, supporting loss prevention and real-time analytics. High-quality image capture underpins shrink reduction strategies, improves transaction validation, and provides actionable insights, helping retailers protect margins while maintaining a fast, frictionless checkout experience.



## SIMPLIFY CUSTOMER INTERACTION

On-glass color image capture accelerates loyalty enrollment and ID verification, allowing for instant processing of documents, credit cards, and coupons at point of sale. The result is reduced transaction complexity and improved service speed, while delivering a smoother, more engaging checkout experience.



## SPEED UP CHECKOUT AND IMPROVE CUSTOMER SATISFACTION

Faster scanning speed and enhanced motion tolerance ensure rapid, accurate reads even on damaged barcodes or reflective phone screens. By minimizing re-scans and reducing wait times, retailers can maintain consistent throughput during peak periods, keeping queues moving and delivering the fast, convenient service customers expect.



## FUTURE-READY SCANNING

Support for GS1 Digital Link, OCR, and Digimarc enables retailers to unlock next-generation data capabilities with high-speed precision. These advanced decoding technologies prepare stores for the industry's migration to 2D codes, providing long-term investment protection and simplified workflows.



## ACCELERATE SUSTAINABILITY IN RETAIL

Energy efficiency and environmental responsibility arrive courtesy of low-power operation, 85 % TÜV-certified recycled plastics and fully recyclable packaging. This commitment to sustainable design helps retailers reduce their environmental footprint while aligning technology investments with corporate ESG objectives and responsible growth strategies.



# IMPROVE INVENTORY ACCURACY & LOSS PREVENTION WITH INTEGRATED RFID



## REDUCE SHRINK

Reads tag data for enhanced loss prevention over legacy EAS systems



## IMPROVE TRACEABILITY

Real-time tracking for inventory control, checkout, and returns



## SIMPLIFY INTEGRATION

Built-in RFID for seamless integration into any POS environment



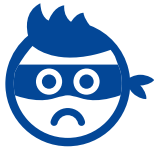
### Magellan 3600/3700 RFID Highlights

- 20 cm reading distance
- Read and Write RAIN RFID tags
- Hybrid mode: barcodes, RFID, or images
- Host port data transfer
- Power via 12V / USB-C / OEM POT
- Configurable power level



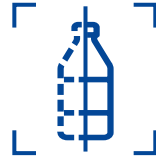
**RFID is now built in:** Easier to implement, faster to deploy, and proven to drive retail value. Ideal for use with fashion, DIY, and electronics products.

# SECURITY & EFFICIENCY AT CHECKOUT WITH THE COLOR VIDEO CAMERA



## DETER & DOCUMENT THEFT

Record clear, color video footage to investigate theft incidents and reduce shrink



## ENABLE FASTER CHECKOUT

Support product recognition to minimize manual inputs and improve efficiency



## PREVENT LOSSES IN REAL TIME

Alert the POS of suspicious actions, like ticket switching, for immediate response



### 3600/3700 Color Video Features

### Benefits



- 1 MP Camera (1280x800 pixels)
- Wide View (77° H x 53° V)
- USB-B to A connection
- 40 Frames Per Second Video Stream
- High definition footage for clear incident review. Magellan loss prevention and item recognition solutions for the bioptics are based on 1 MP images.
- A clear image without distortion makes it easy to see entities pass in and out of the scan area.
- Simple integration with existing POS terminals and easy setup using Aladdin.
- Smooth recording for minimal motion blur and clear video evidence.

# FUTURE-READY SCANNING

## Ready for GS1 Digital Link

The next generation of single-plane scanners support GS1 Digital Link. Targeted for 2027 mass adoption, GS1 Digital Link enables a single code to perform multiple functions, both online and offline: identify recalled items, alert cashiers and customers of impending expiration dates, track ingredients, and much more!



EXPIRATION DATE



DISCOUNTS



NUTRITIONAL VALUES



INGREDIENT TRACEABILITY



PLANT PRODUCTION & SUPPLY CHAIN DATA



LOT NUMBER

## Digimarc & OCR - Expanding Scanning Intelligence

### DIGIMARC: INVISIBLE BARCODE, VISIBLE ADVANTAGE

Detects Digimarc encoded- packaging instantly. No need for users to locate barcodes.

Early adopters: US, Japan, Northern Europe, UK.



*\*Digimarc reading available in Q2 after GA*

### OCR: FROM TEXT TO DATA IN ONE SCAN

Reduce manual inputs and errors.

Read printed text for ID/passport verification, and loyalty codes. Convert alphanumeric data directly into POS or backend systems.



*\*OCR reading available in Q2 after GA*

# INNOVATION MEETS SUSTAINABILITY



## Corporate Environmental Impact

- 42.5% of all Datalogic packaging is made of recycled material, while organic material makes up 16.9%



## Sustainable packaging

- 100% recyclable packaging



## Made with Recycled Materials

- Housing designed with 85% TÜV certified recycled plastics



## Ease of Care

- Repair and reuse defective products with EOC services



## Low Power Consumption

- 1.2 W Nominal



# SOFTWARE & TOOLS



## DATALOGIC CONNECT

One Digital Platform to Manage All Your Datalogic Devices

**Datalogic Connect** is the new intelligent IoT Cloud-based platform that empowers organizations to remotely control, manage, and obtain actionable insights from all their deployed Datalogic devices. Built to optimize operational performance, reduce device downtime, and ensure enterprise compliance, **Datalogic Connect** gives IT and operations teams a powerful tool to manage their entire fleet seamlessly from a single centralized digital hub, regardless of deployment location.

Organizations can now oversee and control the full device lifecycle with unmatched clarity, from deployment and configuration to performance optimization and predictive maintenance, turning actionable data into business intelligence.

**Visibility:** Track every device in real time with instant access to activity status, warranty coverage, health, and physical location.

**Smarter Configuration:** Standardize and protect your installation base with secure, remote firmware updates and configuration rollouts. Easily schedule tasks, define deployment policies, and ensure every device stays aligned, compliant, and up to date.

**Intelligent Insights:** Harness the power of advanced analytics, anomaly detection, and predictive diagnostics—all from a single, intuitive platform. Monitor critical data like battery health and maintenance needs to boost uptime and drive efficiency.

## DATALOGIC ALADDIN

### Smart Software Configurator

Aladdin 3.3.0.3 is the new software configurator for Datalogic OEM ScanEngine, the Magellan product range, and handheld scanners. This all-in-one software tool offers easy and fast reader set up. Datalogic Aladdin 3 provides customers the opportunity to manage product configuration, allowing flexible advanced formatting through an intuitive user interface. The tool also makes it easy for customers to upgrade product firmware to enable to the latest reader features. Used in combination with Datalogic USB-COM drivers, it supports the following Microsoft® operating systems: Windows 11, 10, 8.1, 8, 7, and 64-bit versions.

Available on the whole Magellan portfolio:

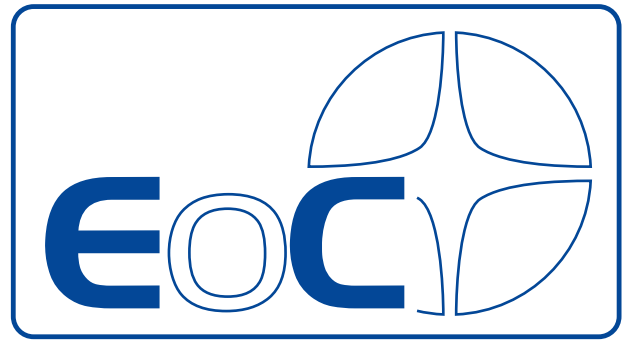
- Bi-optic scanners
- Single-plane scanners
- Presentation scanners



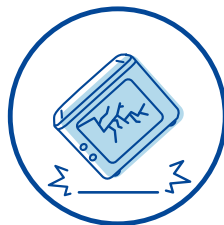
# SERVICE PROGRAMS

Datalogic's Ease Of Care service programs provide superior life-cycle support to ensure products operate at peak performance.

Market-leading Ease of Care programs are a key reason customers stay with Datalogic products, maximizing uptime and lifecycle while providing peace of mind that their software always runs on a healthy, reliable device.



**FAST REPAIR TURNAROUND  
(OVERNIGHT / 2 DAYS /  
3 DAYS / 5 DAYS / 10 DAYS)**



**ACCIDENTAL  
DAMAGE COVERED  
BY COMPREHENSIVE  
PACKAGE**



**FREIGHT BOTH  
WAYS PAID BY  
DATALOGIC**



**3-5 YEAR  
CONTRACT  
SERVICE OPTIONS**

# TECHNICAL SPECIFICATIONS



## MAGELLAN™ 3600VSI

DECODING CAPABILITY		READING RANGES	
<b>1D / Linear Codes</b>	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.	<b>Typical Depth of Field</b>	Printing resolution, symbol length, scan angle, contrast, and ambient light dependent. Distances measured from the product window.
<b>2D Codes</b>	Aztec Code; Data Matrix (ECC200 only); QR Code		<b>1D Codes</b>
<b>Stacked Codes</b>	GS1 Digital Link, GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MicroPDF417; PDF417		5 mils (Code39): 1 to 13cm / 0.5 to 5.0 in 7.5 mils (Code39): 0 to 18cm / 0 to 7.0 in 10 mils (EAN): 0 to 19cm / 0 to 7.5 in 13 mils (EAN): 0 to 22cm / 0 to 8.7 in 20 mils (Code39): 0 to 26cm / 0 to 10.0 in
<b>Digital Watermarks</b>	Digimarc® Barcodes/GS1 DW Code		<b>2D Codes</b>
<b>ELECTRICAL</b>			6.6 mils (PDF): 1 to 12cm / 0.5 to 4.7 in 10 mils (PDF): 0 to 18cm / 0 to 7.0 in 10 mils (DM): 1 to 9cm / 0.5 to 3.5 in 15 mils (DM): 0 to 16cm / 0 to 6.3 in 15 mils (QR): 0 to 16cm / 0 to 6.3 in 20 mils (DM): 0 to 18cm / 0 to 7.0 in 20 mils (QR): 0 to 18cm / 0 to 7.0 in
<b>Power Requirements</b>	AC Input: 100-240 VAC, 50-60 Hz DC Input: 5-12 V USB-C Power Delivery (3650/3670): 9 or 12 V	<b>READING PERFORMANCE</b>	
<b>Power Consumption</b>	All models, no auxiliary HandHeld device attached: Operating (Maximum): 3 Watts Operating (Nominal): 1.2 Watts Sleep Mode: 1.0 Watts  M3x50 and M3x70 only: with Auxiliary HandHeld device attached, 12V power source: Operating (Maximum): 6 Watts Operating (Nominal): 1.8 Watts Sleep Mode: 1.5 Watts (average values considering Datalogic QD2500 HandHeld scanner)	<b>Image Capture</b>	Graphic Formats: BMP, JPEG, TIFF, RAW Color (3650/3670) and Grayscale
<b>ENVIRONMENTAL</b>		<b>Image Sensor</b>	1360 x 1120 pixels, Global Shutter
<b>Ambient Light</b>	0 to 86,100 lux	<b>Light Source</b>	Multiple diffused LEDs, orientation and wavelength optimized for eye comfort
<b>ESD Protection (Air Discharge)</b>	25 kV	<b>Print Contrast Ratio (Minimum)</b>	25%
<b>Humidity (Non-Condensing)</b>	5 - 95%	<b>Read Height</b>	15.0 cm / 6.0 in (EAN 13 mils at 15cm distance)
<b>Particulate and Water Sealing</b>	IP52	<b>Grayscale Read Rate (Maximum)</b>	60 million pixels per second
<b>Temperature</b>	Operating: 0 to 40 °C / 50 to 104 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F	<b>Color Image Read Rate (Maximum, 3650/3670)</b>	4 seconds per image (JPEG format)
<b>INTERFACES</b>		<b>Reading Angle</b>	Pitch: +/- 65°; Roll (Tilt): 0 - 360°; Skew (Yaw): +/- 65°
<b>Interfaces</b>	OEM (IBM) USB; RS-232; USB Keyboard, USB Com	<b>Reading Indicators</b>	Audio speaker with adjustable tone and volume; Good Read LED; Good Transmission
<b>Auxiliary Ports (3650/3670)</b>	Powered Type A USB (USB Com) Requires 12V Power Supply, 12V OEM-USB, or 9-12V USB-C Power Delivery	<b>Resolution (Maximum)</b>	1D Codes: 3 mil 2D Codes: 6 mil
<b>OPTIONAL FEATURES</b>		<b>SAFETY &amp; REGULATORY</b>	
<b>EAS Features</b>	Checkpoint Systems: Integrated EAS hardware will work with Counterpoint IX and Evolve D11 models; Sensormatic: Good Read Acknowledgement	<b>Agency Approvals</b>	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referenced for a complete list of certifications.
<b>Value Added Features</b>	Diagnostic Reporting; Host Download; Magellan ULE Scripting	<b>Environmental Compliance</b>	Complies to China RoHS; Complies to EU RoHS
<b>PHYSICAL CHARACTERISTICS</b>		<b>LED Classification</b>	EN62471 and IEC62471 Lamp Illumination - Exempt Group
<b>Dimensions</b>	13.7 x 15.2 x 8.4 cm / 5.4 x 6.0 x 3.3 in	<b>UTILITIES</b>	
<b>Weight</b>	0.60 kg / 1.3 lb	<b>Aladdin</b>	Magellan Aladdin configuration software is available for download at <a href="http://www.datalogic.com">www.datalogic.com</a>
<b>RFID (AVAILABLE FOR 3650/3670)</b>		<b>OPOS / JavaPOS</b>	JavaPOS Utilities are available for download at no charge. OPOS Utilities are available for download at no charge
<b>Standard</b>	EPC UHF Class 1 Gen 2 (ISO 18000-6C) Requires 12V Power Supply, 12V OEM-USB, or 9-12V USB-C Power Delivery	<b>WARRANTY</b>	
<b>Frequency</b>	US: 902 MHz to 928 MHz EU: 865 MHz to 868 MHz	<b>Warranty</b>	3-Year Factory Warranty
<b>Modulation</b>	ASK (Amplitude Shift Keying)		
<b>Power</b>	Max 9dBm (configurable)		
<b>Reading Range</b>	Up to 20 cm / 7.9 inch (linear)		
<b>COLOR VIDEO CAMERA (3670)</b>			
<b>Power Consumption (on dedicated USB 5V interface)</b>	Without White Illumination enabled: Operating: 0.5 Watts With White Illumination enabled: Operating (Maximum): 2.5 Watts Operating (Nominal): 0.8 Watts Sleep Mode: 0.5 Watts		
<b>Resolution</b>	1280 x 800 pixels, Global Shutter		
<b>Framerate</b>	40 frames per second		
<b>Field of View</b>	74°H x 50°V		
<b>Connectivity</b>	USB Type B Port (USB 2.0), USB Video Class (UVC) Protocol		

## ACCESSORIES

### Mounts/Stands



• 90ACC0598 Wall/Counter Mount



• 90ACC0599 Tilt/Riser Mount



• 90ACC0515 Customer Service Scanner with Omni Mount



## MAGELLAN™ 3700HSI

DECODING CAPABILITY	
<b>1D / Linear Codes</b>	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
<b>2D Codes</b>	Aztec Code; Data Matrix (ECC200 only); QR Code
<b>Stacked Codes</b>	GS1 Digital Link; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MicroPDF417; PDF417
<b>Digital Watermarks</b>	Digimarc® Barcodes/GS1 DW Code
ELECTRICAL	
<b>Power Requirements</b>	AC Input: 100-240 VAC, 50-60 Hz DC Input: 5-12 V USB-C Power Delivery (3750/3770): 9 or 12 V
<b>Power Consumption</b>	All models, no auxiliary HandHeld device attached: Operating (Maximum): 3 Watts Operating (Nominal): 1.2 Watts Sleep Mode: 1.0 Watts  M3x50 and M3x70 only: with Auxiliary HandHeld device attached, 12V power source: Operating (Maximum): 6 Watts Operating (Nominal): 1.8 Watts Sleep Mode: 1.5 Watts (average values considering Datalogic QD2500 HandHeld scanner)
ENVIRONMENTAL	
<b>Ambient Light</b>	0 to 86,100 lux
<b>ESD Protection (Air Discharge)</b>	25 kV
<b>Humidity (Non-Condensing)</b>	5 - 95%
<b>Particulate and Water Sealing</b>	IP52
<b>Temperature</b>	Operating: 0 to 40 °C / 50 to 104 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
INTERFACES	
<b>Interfaces</b>	OEM (IBM) USB; RS-232; USB Keyboard, USB Com
<b>Auxiliary Ports (3750/3770)</b>	Powered Type A USB (USB Com) Requires 12V Power Supply, 12V OEM-USB, or 9-12V USB-C Power Delivery
OPTIONAL FEATURES	
<b>EAS Features</b>	Checkpoint Systems: Integrated EAS hardware will work with Counterpoint IX and Evolve D11 models; Sensormatic: Good Read Acknowledgement
<b>Value Added Features</b>	Diagnostic Reporting; Host Download; Magellan ULE Scripting
PHYSICAL CHARACTERISTICS	
<b>Dimensions</b>	Magellan Model 3700 HSI: Depth (Below Counter): 8.7 cm / 3.4 in; Length: 15.2 cm / 6.0 in; Width: 15.2 cm / 6.0 in
<b>Weight</b>	0.90 kg / 2.0 lb
RFID (AVAILABLE FOR 3750/3770)	
<b>Standard</b>	EPC UHF Class 1 Gen 2 (ISO 18000-6C); Requires 12V Power Supply, 12V OEM-USB, or 9-12V USB-C Power Delivery
<b>Frequency</b>	US: 902 MHz to 928 MHz; EU: 865 MHz to 868 MHz
<b>Modulation</b>	ASK (Amplitude Shift Keying)
<b>Power</b>	Max 9dBm (configurable)
<b>Reading Range</b>	Up to 20 cm / 7.9 inch (linear)
COLOR VIDEO CAMERA (3770)	
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<b>Resolution</b>	1280 x 800 pixels, Global Shutter
<b>Framerate</b>	40 frames per second
<b>Field of View</b>	74°H x 50°V
<b>Connectivity</b>	USB Type B Port (USB 2.0), USB Video Class (UVC) Protocol

READING RANGES	
	Printing resolution, symbol length, scan angle, contrast, and ambient light dependent. Distances measured from the product window without a platter.
<b>1D Codes</b>	5 mils (Code39): 1 to 13cm / 0.5 to 5.0 in 7.5 mils (Code39): 0 to 18cm / 0 to 7.0 in 10 mils (EAN): 0 to 19cm / 0 to 7.5 in 13 mils (EAN): 0 to 22cm / 0 to 8.7 in 20 mils (Code39): 0 to 26cm / 0 to 10.0 in
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<b>Typical Depth of Field</b>	
READING PERFORMANCE	
<b>Image Capture</b>	Graphic Formats: BMP, JPEG, TIFF, RAW Color (3750/3770) and Grayscale
<b>Image Sensor</b>	1360 x 1120 pixels, Global Shutter
<b>Light Source</b>	Multiple diffused LEDs, orientation and wavelength optimized for eye comfort
<b>Print Contrast Ratio (Minimum)</b>	25%
<b>Read Height</b>	15.0 cm / 6.0 in (EAN 13 mils at 15cm distance)
<b>Grayscale Read Rate (Maximum)</b>	60 million pixels per second
<b>Color Image Read Rate (Maximum, 3750/3770)</b>	4 seconds per image (JPEG format)
<b>Reading Angle</b>	Pitch: +/- 65°; Roll (Tilt): 0 - 360°; Skew (Yaw): +/- 65°
<b>Reading Indicators</b>	Audio speaker with adjustable tone and volume; Good Read LED; Good Transmission
<b>Resolution (Maximum)</b>	1D Codes: 3 mil 2D Codes: 6 mil
SAFETY & REGULATORY	
<b>Agency Approvals</b>	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referenced for a complete list of certifications.
<b>Environmental Compliance</b>	Complies to China RoHS; Complies to EU RoHS
<b>LED Classification</b>	EN62471 and IEC62471 Lamp Illumination - Exempt Group
UTILITIES	
<b>Aladdin</b>	Magellan Aladdin configuration software is available for download at <a href="http://www.datalogic.com">www.datalogic.com</a>
<b>OPOS / JavaPOS</b>	JavaPOS Utilities are available for download at no charge. OPOS Utilities are available for download at no charge
WARRANTY	
<b>Warranty</b>	3-Year Factory Warranty

## ACCESSORIES

### Mounts/Stands



• 90ACC0355 Standard Counter Mount

• 11-0178 Standard Counter Mount with Magellan HS 1250 Fill Kit

• 90ACC0515 Customer Service Scanner with Omni Mount



BARCODE  
FACTORY

## **Barcode Factory**

*A Paragon Print Systems Company*

**2021 Paragon Drive | Erie PA 16510**  
**814.456.8331 | Toll Free: 888.237.8525**  
**info@barcodefactory.com**