Zebra MS4717 Fixed Mount Imager

Barcode Scanning Solution for Kiosks

From the food ordering kiosk in the quick-serve restaurant, to the ticketing kiosk at the airport or amusement park, you need a reliable device that can be mounted easily into your kiosk with little effort. The MS4717 has a small footprint that can be integrated into a wide variety of enclosures from multiple sides enabling ease of installation. Featuring Zebra's exclusive PRZM Intelligent Imaging technology, the MS4717 can instantly capture virtually any 1D or 2D barcode providing flexibility for a wide range of applications. Enjoy award-winning data capture technology, ease of integration, high reliability and superior performance with the MS4717 Fixed Mount Imager.

MS4717

MS4717 with Cone

Optional "Cone" Configuration

For additional kiosk applications including contact scanning, the MS4717 with Cone is available as an option. This configuration delivers the same aggressive scanning performance the MS4717 is known for, while the "cone" mount enables contact scanning of most barcodes at the exit window. Users can simply place their barcode right up against our scratch-resistant exit window for quick and easy decoding. Mounting holes for this configuration comply with the European Vending Association (EVA) specification to further simplify integration.

Aggressive Presentation Mode Performance

The MS4717 features Zebra's exclusive PRZM Intelligent Imaging technology for unparalleled presentation scanning performance on virtually any 1D & 2D barcode, including dense, poorly printed, damaged, crinkled, faded, distorted, low-contrast, and glossy printed barcodes, as well as barcodes on plastic ID cards or from mobile phone displays. With the popularity of mobile phone applications increasing, electronic versions of tickets, boarding passes, and loyalty cards are now easily scanned with MS4717 providing a high level of customer convenience. With the bright, rectangular illumination field and the LED aiming dot, users will instantly know if they are aiming at the right spot for exceptional ease of use. Options for either software trigger or presentation mode scanning provide the flexibility for a wide variety of applications.

Designed for Easy Integration

The MS4717 features a small footprint and mounting hole locations on five sides, so it can easily be positioned to fit into tight locations to accommodate the design of your enclosure. It also includes a Micro USB connector that supports standard off-the-shelf cables to match your design requirements. Multiple cable routing options on the MS4717 helps to minimize cable clutter for a clean overall installation within your enclosure. The MS4717 comes out of the box with all the product approvals and certifications needed to minimize design cycles and regulatory approval cycles. Integration into your product design is easy — no optical, mechanical or electrical engineering required.

Put the Zebra MS4717 to work in your organization today.

For more information, visit **www.zebra.com/ms4717**

Built-to-Last Durable Design

With your installations likely spread out across many locations, it is important that your fixed mount imager is made to last with a durable design for maximum uptime. The MS4717 features a Gorilla® Glass exit window for outstanding scratch resistance, and its IP54 sealing specification is suitable for outdoor applications such as at the gate admissions turnstile at the local sports arena to uncovered parking access gates. The MS4717 also has a rating of multiple 5ft/1.5m drops to concrete to protect it in the unlikely event of a drop during a routine service or field installation of your enclosure. For added reliability, a secure USB cable locking clip is included to prevent it from coming loose or disconnecting.

Proven Technology You Can Count On

When you choose the MS4717 you get the peace of mind that comes from choosing superior, well-tested technology. Every day, all around the world, our OEM products power millions of devices in thousands of applications across industries. When you choose Zebra, you get an industry leading partner that has been helping OEMs successfully implement enterprise-class barcode scanning for over 40 years. We know what you need and we provide it – from packaged reference designs and integration documents to a dedicated OEM global sales and support team ready to deliver unsurpassed service – from the moment you place your order to the moment you deliver your products.

Zebra Technologies is a leading provider of mission-critical communication products and services for enterprise and government customers. From component scan engine technology that easily integrates into your design to private labeled wireless and mobile computing solutions with your specifications and brand logo, our OEM portfolio lets you deliver solutions your customers can count on, while reducing your costs and time-to-market.

The Industry's Simplest Configuration Wizard

123Scan is Zebra's patented complementary software tool, offering a wizard-driven interface that simplifies every step of deployment, from configuration to firmware updates and staging large numbers of devices. Everyone's a wizard at configuring and programming with 123scan, an industry first, 123scan automatically detects and programs the MS4717 Fixed Mount Imager without scanning a barcode or wiping clean your existing settings.

Whether you need to deploy a single scanner or a multitude of scanners, 123scan makes it faster and easier. With 123scan's Mass Upgrade Mode, you can simultaneously batch stage devices in groups up to 10 scanners by simply adding one or more USB hubs

Powerful and amazingly simple, 123scan streamlines all your scanner set-up and maintenance needs. Download parameters, update firmware, view statistics, generate Microsoft Word-friendly reports and validate setup by displaying data.

Easy Application Development

Get everything you need to easily integrate scanning into your business applications with our Scanner Software Development Kits (SDKs) for Windows, Android, iOS and Linux. These SDKs provide documentation, drivers, test utilities and sample source code.

Programmatically control your scanner to handle any business need. Set the beeper or LED feedback mechanisms to confirm accurate scanning. Configure scanners to capture images and only those symbologies you want. Minimize downtime with visibility into critical data and simplify management with remote tools that let you upgrade firmware and query asset information.

MS4717 Specifications

Physical Characteristics

Dimensions	MS4717: 1.10 in. H x 1.89 in. L x 2.17 in. W (2.8 cm H x 4.8 cm L x 5.5 cm W)
	With Cone: 4.13 in. H x 4.04 in. L x 2.98 in. W (10.49 cm H x 10.25 cm L x 7.58 cm W)
Weight	4.13 oz/117 g
	With Cone: 6.42 oz/182 g
Power	Maximum: 5 VDC +/- 10% @ 480 mA

User Environment

Operating Temp.	-4° to 122° F /-20° to 50° C
Storage Temp.	-40° to 158° F /-40° to 70° C
Humidity	Operating: 95% RH, non-condensing at 50°C
	Storage: 85% RH, non-condensing at 70°C
Sealing	IP54
	With Cone: dust sealed
Drop Specification	Designed to withstand multiple drops at 5.0 ft./1.5 m to concrete
Exit Window (MS4717 with Cone)	2.87 in. L x 2.4 in. W x .06 in. D, .04 in/.1cm corner radius (7.3 cm L x 6.10 cm W x .15 cm D)
Integration (MS4717 with Cone)	4 forward-facing mounting holes, EVA Compliant

Performance Characteristics

Image Sensor	1280 x 800 pixels
Imager Field of View	42° H x 28° V Nominal
Light Source	Aiming Pattern: Circular 610nm Amber LED
Minimum Print Contrast	20% minimum reflective difference
OCR Capability	OCR-A, OCR-B, MICR E13B, US Currency Serial Number

Symbology Decode Capability

1D	All major 1-D bar codes
2D	PDF417, DataMatrix, QR Code, Aztec, Composite Codes and MaxiCode
Postal	US Postnet, US Planet, UK Postal, Australian Postal, Japan Postal, Postal Codes
Ambient Light	Total darkness to 10,000 ft. candles (107,369 lux)
Image File Formats	BMP, TIFF, JPG

Interfaces

Supported Host Interfaces	USB - USB (full speed)

Regulatory

Product Safety	IEC/EN 62368-1, IEC/EN 60950-1, UL/cUL
Laser Classification	LED / Classified as Exempt Risk Group per IEC/EN 62471
EMI/RFI	FCC Part 15 Class B, ICES-003 Class B, CISPR22 Class B, EN 55024, EN 55032, 47 CFR Part 15, Subpart B Class B, ICES-003 Issue 5 Class B, IEC 60601-1-2 Medical Electrical Equipment
Environmental	RoHS compliant

Decode Ranges

Code 39: 4 mil	3.1 in./7.8 cm (Near); 8.6 in./21.8 cm (Far)
	With Cone: 0.1 in./0.25 cm (Near); 7.5 in./19 cm (Far)
Code 128: 5 mil	2.6 in./20.2 cm (Near); 8.0 in./20.3 cm (Far)
	With Cone: 0 in./0 cm (Near); 7.7 in./19.6 cm (Far)
Code 39: 5 mil	1.8 in./4.5 cm (Near); 13.3 in./33.7 cm (Far)
	With Cone: 0 in./0 cm (Near); 9.4 in./23.9 cm (Far)
PDF417: 5 mil	2.9 in./7.3 cm (Near); 8.2 in./20.8 cm (Far)
	With Cone: 0.1 in./0.25 cm (Near); 4.8 in./12.2 cm (Far)
Datamatrix: 10 mil	2.7 in./6.8 cm (Near); 9.9 in./25.1 cm (Far)
	With Cone: 0 in./0 cm (Near); 8.0 in./20.3 cm (Far)
UPC: 13 mil (100%)	1.6 in./4.0 cm (Near); 25.8 in./65.5 cm (Far)
	With Cone: 0 in./0 cm (Near); 17.2 in./43.7cm (Far)
Code 39: 20 mil	1.8 in./4.5 cm (Near); 29.8 in./75.6 cm (Far)
	With Cone: 0 in./0 cm (Near); 19.2 in./48.8 cm (Far)
QR Code: 20 mil	3.0 in./7.6 cm (Near); 15.6 in./39.6 cm (Far)
	With Cone: 0 in./0 cm (Near); 13.6 in./34.5 cm (Far)

* Field of View limited

Warranty

Subject to the terms of Zebra's hardware warranty statement, the MS4717 is warranted against defects in workmanship and materials for a period of 15 months from the date of shipment. For the complete Zebra hardware product warranty statement, go to: http://www.zebra.com/warranty

Markets and Applications

OEM
Integrate into a broad range of devices, from self-service kiosks to medical equipment including:

- Financial service kiosks
- ATM's
- Restaurant kiosks
- Wayfinding kiosks
- Security kiosks
- Gate admission turnstiles
- Airline check-in
- Smart lockers
- Ticket checkers
- E-voting machines
- Access control kiosks

Features

Zebra-Exclusive PRZM Intelligent Imaging technology
Aggressively scans barcodes from many surfaces including paper, plastic and mobile phone displays

USB Certified
Ensures reliability when connected to most host USB ports

Medical Equipment Rated
Enables faster integration into your medical equipment with certification IEC 60601-1-2