




DPM Products At-a-Glance

A new level of performance, affordability and total cost of ownership for DPM applications



A close-up photograph of a metallic, textured surface. In the upper right, a large, stylized white arrow graphic points towards the right. Below it, a smaller, similar arrow graphic is visible. In the lower left, a circular DPM mark is formed by a grid of small, dark dots. The background is a solid green color.

The next generation of Direct Part Mark (DPM) scanning devices

Until recently, direct part marking applications required expensive high-end systems that often delivered less-than-acceptable scanning performance. Now, Motorola has taken a different approach that offers a new level of affordability and performance. Instead of a large systems-oriented approach to DPM, Motorola has added direct part marking capability to select Motorola devices. The result is a family of cost-effective rugged devices that deliver superior scanning performance for both bar codes and direct part marks.

When you need to scan DPM marks, think Motorola. Our DPM-enabled scanners and mobile computers deliver the same level of reliability that has made us a world leader in bar code scanning. You can count on patented high-performance scanning technology that delivers accurate and reliable data capture, regardless of the surface on which the mark is printed, the read distance or the size and type of the mark. You can count on maximum uptime — our devices are built to endure all-day everyday use in demanding manufacturing and warehouse environments — and offer world-class service options. You can count on maximum flexibility — the ability to read DPM marks as well as standard black and white printed bar codes enables you to choose a single device to meet all your scanning needs. And you can count on reduced costs through a powerful single enterprise scanning platform that simplifies your technology architecture and enables applications and their costs — to be leveraged across devices.

Get a new level of performance, affordability and total cost of ownership in your DPM applications — with Motorola's new generation of DPM-enabled scanning devices.

When you choose Motorola products, you can expect:

Patented features that address distance, size and surface issues

Rich scanning functionality eliminates many of the requirements typically associated with scanning of direct part marks — from lighting to presentation position. Our devices can decode multiple DPM formats, including the most difficult mark — dot peen — as well as laser etch, chemical etch, inkjet, mold, cast and thermal spray. Where most DPM readers require an extremely close read range — from contact to 2 in./5.08 cm — Motorola DPM-enabled devices offer a unique patented dual-focus feature that enables accurate reading as far as 10 in./25.4 cm away from the part, delivering greater application flexibility. The dynamic ability to switch between near and far field focus enables the accurate reading of a wide range of mark sizes — from very small to very large — on nearly any surface, including metal, rubber, plastic and glass.

Superior ease of use...and user comfort

Motorola's DPM-enabled devices are easy to use, significantly reducing the need and costs associated with training. Even new users can successfully scan in seconds, without the need for instruction or supervision. The need to precisely align the scanner with either the direct part mark or any bar code is eliminated through an omni-directional scan pattern. Patented laser aiming technology enables users to visually see where they are aiming before scanning, increasing productivity by ensuring the information is captured quickly and correctly, the first time. And the innovative ergonomic design protects against fatigue and ensures user comfort, even in the most intense scanning environments.

A platform for today and tomorrow

Our family of mobile computing and bar code scanners is built on a common platform for a simpler mobility architecture. The resulting reduction in device types and operating systems reduces the demands on an often already over-tasked IT department. Applications can be easily ported between Motorola devices, enabling you to get the most out of your application investment dollars.

And further savings are realized through reduced training requirements, as well as the ability to share accessories between same-series models.

A new level of cost-efficiency... and return on investment

Motorola delivers a new level of cost-efficiency for direct part mark readers that most competitive systems simply cannot offer. Motorola rugged scanners are existing products, already manufactured in volume, with affordable pricing. Motorola devices are built for enterprise use to maximize device life expectancy. The dual functionality — the ability to read direct part marks as well as standard 1D and 2D bar codes — eliminates the need to purchase, maintain and support multiple devices throughout your enterprise, from the manufacturing floor to the warehouse, receiving dock and more. And Motorola's exceptional service packages offer features such as on-site repair and immediate exchange to ensure enterprise class protection against downtime. The result is a low total cost of ownership (TCO) and a rapid return on investment (ROI) — a real value.

The Motorola difference

When you need performance and value in your direct part marking solution, turn to a proven leader in bar code scanning, offering over 25 solid years of experience — Motorola. Count on our family of mobile devices to provide unique features and functionality that will optimize productivity in your DPM and other bar code scanning applications — while simplifying operations and significantly reducing costs. From aerospace manufacturers tracking engine parts for security and safety, to automotive manufacturers tracking parts for regulatory compliance and more, Motorola's DPM-enabled devices will deliver a new level of reliability and affordability in your Direct Part Mark applications.

For more information on how you can benefit from using Motorola mobile devices in your Direct Part Mark solution, access our global contact directory at www.motorola.com/enterprisemobility/contactus

Versatile product line designed to meet a wide variety of environment and application needs

Whether you need direct part marking plus 1D bar code scanning, 1D and 2D bar code scanning, image capture and transfer, and more, Motorola's versatile DPM-enabled product line enables you to select the form factor, level of rugged construction and features that will ensure maximum value in your enterprise environments. Our general purpose scanners balance durability with affordability while offering the same Motorola-only high performance scanning.

Mobile Computers

INDUSTRIAL/RUGGED MOBILE COMPUTERS

Motorola's rugged mobile computers are built to withstand the most demanding enterprise conditions.

MC3000 Series



The MC3000 family of rugged mobile computers is designed to deliver comfort and performance in harsh enterprise environments. The MC3000 offers multiple connectivity options and is ideal in the warehouse, on the retail floor, on the loading dock or out in the field. The small lightweight device is built to withstand dusty environments, moisture and extreme temperatures. The latest in processing power ensures the ability to run virtually any application. The device can scan any bar code — DPM, 1D, 2D and PDF417. And the Microsoft Windows CE operating system offers a familiar user interface that significantly reduces training time. The MC3000 Series offers IP54 sealing against the elements and passes Motorola's rigorous impact tests. The device can endure repeated 4 ft./1.22m drops to concrete across the operating temperature range and passes Motorola's unique tumble test, delivering reliable operation even after being subjected to 500 consecutive turns (1,000 drops) in a tumble drum at 1.65 ft./.5m.

MC9000 Series



The best-selling MC9000 series rugged handheld mobile computers offer maximum reliability, performance and functionality for the most demanding industrial environments and applications. The devices offer IP64 sealing against the elements and were subjected to Motorola's rigorous impact tests. This family of mobile computers endures repeated 6 ft./1.8m drops to concrete across the operating temperature range and passes Motorola's unique tumble test, delivering reliable operation even after being subjected to 2,000 consecutive turns (4,000 drops) in a tumble drum at 3.28 ft./1m. A common high-performance architecture, including the latest in operating systems and processing power, enables the deployment of the application on three ergonomic form factors across the supply chain, maximizing your development dollars. A full suite of wireless communications options allows you to select the combination of WWAN/WLAN/WPAN connectivity you need in various areas of your business, offering the opportunity to substantially reduce capital and operating expenses by eliminating the need for dual devices for employees — a cell phone and a mobile computer. Flexible bar code scanning and data capture options include DPM, 1D and 2D bar code scanning as well as imaging. In addition to a variety of form factors and optional keypads, a comprehensive accessories ecosystem enables you to adapt the MC9000 for your environment, applications and users.

ENTERPRISE CLASS MOBILE COMPUTERS

Motorola's enterprise class mobile computers offer small and lightweight PDA styling with enterprise durability, high-performance processing and bar code scanning.

MC70



The MC70 Enterprise Digital Assistant (EDA) incorporates a mobile phone, PDA, computer, bar code reader in a single size optimized unit designed for the rigors of all-day, everyday enterprise use. This rugged enterprise productivity tool provides your mobile workers with everything they need to increase productivity and efficiency inside and outside your four walls in nearly any environment — from field workers reading meters and repairing equipment to drivers delivering packages, hospital workers checking lab results and medication orders, and more. The device offers IP54 sealing against the elements, and was subjected to Motorola's rigorous impact tests. Flexible bar code scanning and data capture options include DPM, 1D and 2D bar code scanning as well as imaging. The device can endure repeated 4 ft./1.22m drops to concrete across the operating temperature range, and passes Motorola's unique tumble test, delivering reliable operation even after being subjected to 1,000 consecutive turns (2,000 drops) in a tumble drum at 1.65 ft./0.5m.

Scanners

GENERAL PURPOSE SCANNERS

Motorola's general purpose scanners provide a wide variety of scanning capabilities as well as the durability and reliable construction required to handle all day everyday use.

DS6707-DP



The Symbol DS6707-DP is a premium, general purpose, direct part marking (DPM) scanner. Offering the maximum in data capture flexibility, it reads the most challenging direct part marks — dot peen, chemical etch, laser etch, ink mark, thermal spray and cast marks — as well as captures 1D/2D/PDF/postal bar codes, images and documents — with a single device. With near focus optics and a high resolution 1.3 megapixel image sensor, the Symbol DS6707-DP is optimized to read very tiny and very dense codes — down to 2mm x 2mm and as dense as 4 mils on 2D bar codes. Its patented, advanced illumination system provides the multiple lighting effects required to capture marks on any type of surface. The built-in diffuser provides the indirect light required to capture bar codes marked on very shiny and reflective surfaces, such as those found on surgical equipment, aerospace parts and electronics components. The proprietary design of the diffuser also directs additional lighting to the edges of bar codes marked on the curved surfaces of items typically found in the automotive, aerospace and healthcare industries, enhancing the image for a quick decode. A glancing direct light mode provides the bright light required to successfully read low contrast bar codes marked on any type of surface, including challenging polished materials, dark rubber, plastic and opaque surfaces. The Symbol DS6707-DP is easy to use and requires virtually no training. The omni-directional scan pattern allows marks to be presented at any angle, and a viewfinder and aiming bulls-eye facilitates accurate point-and-shoot aiming for image capture. The DS6707-DP is compatible with all Symbol DS6700 Series scanner accessories, including the Intellistand, which provides the ability dynamically switch between handheld and hands-free modes as needed, providing maximum application flexibility.

Motorola's multifunction devices offer superior value, enabling the reading of DPM marks, bar codes and more — with a single device.

RUGGED SCANNERS

Motorola's rugged scanners are long recognized for delivering optimum performance — even in demanding environments with harsh environmental conditions.

DS3400 Series



These industrial bar code scanners offer outstanding scanning functionality and application flexibility in an easy-to-use and highly rugged corded (DS3400 Series) or cordless (DS3478 Series) design. Equipped with a charge coupled device (CCD) image sensor, these devices offer digital imaging technology that allows the rapid and accurate capture of all bar code symbologies — DPM, 1D, 2D and PDF417. Designed for fast-paced scan intensive environments, these scanners can capture even poorly printed and damaged codes, keeping business moving and maximizing worker productivity. The CCD element is extremely durable and power efficient, and works in nearly any lighting condition. Two-position smart focus technology, unique to Motorola, provides the ability to read bar codes regardless of the size or density — and the focus (near or far) can be changed on the fly for maximum application flexibility. The omni-directional scanner is easy to use and requires minimal training — operators can quickly capture bar codes from any angle, eliminating the need to line up bar codes with laser lines. Impervious to dust and water, the devices offer IP65 sealing against the elements. Subjected to Motorola's industry-leading impact tests, the DS3400 and DS3478 offer a very high level of 'drop tolerance'. The devices can endure repeated 6.5/2m drops to concrete across the operating temperature range, and pass Motorola's unique tumble test, delivering reliable operation even after being subjected to 2,000 consecutive turns (4,000 drops) in a tumble drum at 3.28/1m. Two models are available that are identical in scanning functionality: the corded DS3407-DP and the cordless DS3478-DP, which frees workers to move up to 150 ft./45.72m away from the device cradle. And the Intellistand accessory offers the flexibility of handheld and hands-free operation.

FIXED MOUNT SCANNERS

For enterprises creating custom solutions Motorola's fixed mount imagers offer high-performance automated scanning for industrial applications.

MS4400 Industrial Fixed-Mount Imager



The MS4400 Industrial Fixed-Mount Series delivers high performance DPM, 1D and 2D bar code scanning and image capture wherever handheld interaction is not required. From the assembly line to the tool crib, warehouse and dock, the MS4400 ensures that the right part is used at the right time and enables logging and tracking of high value tools, parts and containers. The small device is easy to install in nearly any location — including areas where space is at a premium. A dual-focus system offers an exceptional depth of field for all bar code densities, providing the flexibility to support a wide range of applications. Built-in illumination ensures that bar codes and images can be captured in nearly any lighting condition — from bright sunlight to total darkness. And the ready-to-mount device can be integrated quickly and easily into your existing environment, reducing integration costs.

Motorola's DPM-enabled product portfolio at-a-glance

MOBILE COMPUTERS												
Device	Rugged Specifications			Data Capture Options					Wireless Networking			Manageability
	Sealing	Drop Spec	Tumble Spec	DPM	1-D Codes	2-D Codes	Imaging	RFID	WWAN	WLAN	WPAN	Compatible
INDUSTRIAL CLASS												
MC3000 Series	IP54	4 ft./1.22m drops to concrete across the operating temperature range	500 tumbles at 1.65 ft./5m (1000 drops)	•	•	•	•			Tri-mode 802.11a*/b/g	Bluetooth	MSP
MC9000 Series	IP64	4 ft./1.22m drops to concrete across the operating temperature range	2000 tumbles drum at 3.28 ft./1m (4000 drops)	•	•	•	•	•	Dependent upon specific model selected	Tri-mode 802.11a*/b/g		MSP
ENTERPRISE CLASS												
MC70	IP54	4 ft./1.22m drops to concrete across the operating temperature range	1000 tumbles at 1.65 ft./5m (2000 drops)	•	•	•	•		eGPRS/GSM/EVDO Available Q1 2007	Tri-mode 802.11a*/b/g	Bluetooth	MSP
SCANNERS												
Device	Rugged Specifications			Data Capture Options					Connectivity			Manageability
	Sealing	Drop Spec	Tumble Spec	DPM	1-D Codes	2-D Codes	Imaging	RFID	Corded	Cordless	Fixed	Compatible
GENERAL PURPOSE												
DS6707-DP	N/A	6 ft./1.8m drops to concrete	N/A	•	•	•	•		•			RSM (Remote Scanner Management Ready)
RUGGED												
DS3400 Series (corded) and DS3478 Series (cordless)	IP65	6.5 ft./2m drops to concrete across the operating temperature range	2000 tumbles	•	•	•	•		• DS3407-DP	• DS3478-DP		
FIXED MOUNT												
MS4400	N/A	Multiple 30 in./76cm drops to concrete	N/A	•	•	•	•				•	

*Note: 802.11a not available where prohibited or restricted



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