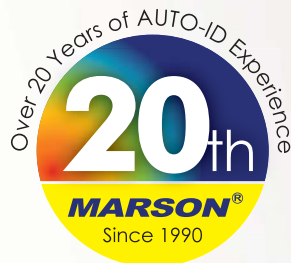


Product Guide

MARSON TECHNOLOGY CO., LTD



- OEM/ODM Scan Engines
- Long Range CCD Scanner
- Laser Barcode Scanner
- 2D Barcode Scanner
- Wireless Barcode Scanner
- Contact Scanner
- Barcode Slot Reader
- Pen (Wand) Scanner
- Interface & Accessories



www.marsontech.com

MARSON[®]
Taiwan Barcode Scanner Manufacturer
Since 1990

About Marson

www.marsontech.com



Company Overview

Established in 1990, Marson Technology Co., Ltd has been grown rapidly and is emerging as the 1st professional barcode scanner Designer & Manufacturer in Taiwan. Its ongoing investment in the OEM/ODM competitive advantages have led to a wide range of products related to barcode technology, which enables Marson to be the price/performance leader in the automatic identification industry.

Over 20 years of manufacturing experience in barcode scanning devices grants Marson a good reputation around the world. Excellent services and high quality secure the long-term relationship with customers.

Product and Customization Service

Marson designs and manufactures a wide range of bar code scanning devices, including high performance hand-held / fixed-mount long reading-depth CCD scanners, versatile barcode decoders and low power consumption Wand (light pens) and OEM CCD (CMOS) / Laser scan engines.

Besides, Marson also provides OEM/ODM customized services, to modify current models based on customer's requirements, or to create a new model based on customer's concepts and schematics.

Outstanding R&D Ability

Marson technology has a prominent R&D team which creates superb OEM / ODM products for quality conscious customers. The MT120CG was awarded "Taiwan Symbol of Excellence Winner 1999", for Marson's excellence in design and quality.



High Quality Policy

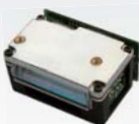




Quality is paramount to the success of Marson's business. To satisfy the most discerning customers, Marson offers full service and quality product lines supported by ISO 9001 certification. All Marson's scanning devices follow RoHS / WEEE for IECQ QC 080000 system.

Marson also follows a strict quality control system, implementing various quality tests such as drop test, cable bending test and high temperature test to ensure the high production yield rate and the durable life of the products.



OEM/ODM Scan Engines

We offer a wide range of quality OEM products from OEM CCD Engine, Laser Engine, Embedded wireless solution such as bluetooth and memory barcode scanner to engineering design and manufacturing service.

Picture								
Type	Laser		CMOS	Standard CCD			Standard CCD / TTL	
Model	RE293	RE295	MT700	MT712LR-III	MT722	MT732	MT720	MT730
Optical	Laser		CMOS	CCD	CCD		CCD	
	Long Range		Middle Range	Long Range		Short Range	Long Range	Short Range
Operating Voltage	5VDC		3.3VDC	5VDC				
Sensor	Laser Diode 650 nm		Linear CMOS Sensor	2048 pixels	2500 pixels			
Resolution	0.1mm (4 mil)		0.127 (5mil)	0.1mm (4 mil)				
Depth of Field	60~320 mm @ 20 mil, Code 39	90~300 mm @ 20 mil, Code 39	30~140 mm @13 mil, Code 39	60~360 mm @15.6 mil, Code 39	76~320 mm @20 mil, Code 39	51~110 mm @15.6 mil, Code 39	60~200 mm @15 mil, Code 39	40~90 mm @15 mil, Code 39
Scan Rate	100~110 scans /sec	200 scans /sec	100 scans/sec	230 scans/sec	220 scans/sec		50 scans/sec	
Interface	KB, UART, USB HID	UART, USB HID, USB Virtual Com	UART (3.3V), USB HID, USB Virtual Com	UART	KB, UART, USB HID (Marson USB chip required.)		TTL	
Decoder	○		○	○	○		X	
PDF417	X	○	X	X	X		X	
Dimension	L38 x W30 x H18.5mm		L14xW9.5xH8mm	L45xW30xH16mm	L32xW24xH11mm			

Picture						
Type	High Speed CCD		High Speed CCD		Standard CCD / TTL	
Model	MT742	MT742L	MT752	MT752L	MT720L	MT730L
Optical	CCD					
	Long Range		Short Range		Long Range	Short Range
Operating Voltage	5VDC	3.3VDC	5VDC	3.3VDC	3.3VDC	
Sensor	2500 pixels					
Resolution	0.1 mm (4 mil)					
Depth of Field	70~320mm @20mil, Code39		30~100mm @15mil, code 39		60~200 mm @15.6 mil, Code 39	40~90 mm @15 mil, Code 39
Scan Rate	530 scans/sec				50 scans/sec	
Interface	UART / USB Virtual Com / USB HID				TTL	
Decoder	○				X	
PDF417	○				X	
Dimension	L32 x W24 x H11mm					

*All product specifications are subject to change without notice. * O: Supported X: Not Supported

Long Range CCD Handheld Scanner

Marson provides different type of Long Range CCD Scanners with aggressive scanning performance for fast and accurate data entry application. Marson CCD engines possess laser-like scanning range and much safer to human eyes than laser engine.



MT7930A is built-in with a 32bit high speed processor, providing 450 scans/sec which allowing to read barcode fast and accurately, with added value of PDF417 reading capability. **MT7930B**, with built-in 16-bit MCU, delivers 230 scans/sec scan rate and great reading distance from 40 to 350 mm. **MT7930C** is an economic model, to read 4 mil high density barcode is available.

MT7930T adopts Bi-Color light source technology that enables the scanner to automatically changes its light source between green and red, making it possible to decode barcodes printed in various colors (with various background colors) that traditional barcode scanners fail to recognize.

Features

- Fast and flexible data entry
- Ergonomic design
- Quick and easy to install
- Hands-free scanning with auto-sense stand
- Read barcode from 40~350 mm away (MT7930B)
- EzU barcode configuration software supported

Specification

Picture				
Model Name	MT7930A	MT7930B	MT7930C	MT7930T
Optional Sensor	2048 pixels, CCD	2048 pixels, CCD	2088 pixels, CCD	2048 pixels, CCD
Light Source	660 nm Visible, Red LED	660 nm Visible, Red LED	660 nm Visible, Red LED	660 nm Visible, Red LED
Resolution	0.1 mm (4mil)			
Depth of Field	30~220 mm @ 15.6 mil, EAN 50~100mm @ Level 8, PDF417 (X:10mil ; Y:1mm)	40~350 mm @ 15.6 mil, EAN	25~250 mm @ 15.6 mil, EAN	25~300 mm @ 15.6 mil, EAN
Scan Rate	MT7930A : 230 scans/sec MT7930AA: 450 scans/sec	230 scans/sec	130 scans/sec	200 scans/sec
Interface	KB/RS232/USB HID/ USB Virtual Com	KB/RS232/USB HID/ USB Virtual Com	KB/RS232/USB HID/ USB Virtual Com	KB/RS232/USB HID/ USB Virtual Com
Impact Resistance	1.8 M			
Auto Sensing	Supported		N/A	
Dimension	L160 x W69 x H88mm			
OPOS Driver	N/A	Supported by request		
Warranty	2 years			

Ordering Information

Interface	RS232 (#1)		Keyboard Wedge		USB (key board)		USB Virtual Com	
Auto Sensing	No	Yes	No	Yes	No	Yes	No	Yes
MT7930A Series	MT7932A	MT7932AA	MT7933A	MT7933AA	MT7935A	MT7935AA	MT7938A	MT7938AA
MT7930B Series	MT7932B	MT7932BA	MT7933B	MT7933BA	MT7935B	MT7935BA	MT7938B	MT7938BA
MT7930C Series	MT7932C	-	MT7933C	-	MT7935C	-	MT7938C	-
MT7930T Series	MT7932T	-	MT7933T	-	MT7935T	-	MT7938T	-

#1 RS232 interface selection needs an AC Adapter for DC5V Power Supply.

* All product specifications are subject to change without notice.

Laser Barcode Scanner

Laser scanner series is built-in with Marson's owned high speed laser scan engine "RE293". The speed scan rate is up to 90~110 scans/sec and capable of reading highest density barcode up to 3 mil.

Features

- Ergonomic shape design
- Highest scan rate: 90~110 scan/sec
- Highest density up to 3 mil.
- Fast decoding rate
- Rugged to drop 1.5 m drop to concrete.
- MT7940A Supported PDF417 and DataBar code
- Supported auto sensing (Optional)
- EzU barcode configuration software supported

Specification

Picture	 		
Model Name	MT7940A	PDF417 Scanner	MT7940C
Built-in Engine	RE295		RE293
CPU	32 bit		16 bit
Auto Sensing	Supported		
Resolution	0.075 (3 mil)		
Depth of Field	40~300 mm @ 20 mil , Code 39		40~300 mm @ 20 mil , Code 39
Scan Rate	200 scans/sec		100~110 scans/sec
Interface	KB / RS232 / USB HID / USB Virtual Com		
Impact Resistance	1.5 m		
Dimension	L160 x W69 x H88mm		
Warranty	1 year		

Ordering Information								
Interface	RS232 (#1)		Keyboard Wedge		USB (key board)		USB Virtual Com	
Auto Sensing	No	Yes	No	Yes	No	Yes	No	Yes
MT7940A Series	MT7942A	MT7942AA	MT7943A	MT7943AA	MT7945A	MT7945AA	MT7948A	MT7948AA
MT7940C Series	MT7942C	MT7942CA	MT7943C	MT7943CA	MT7945C	MT7945CA	MT7948C	MT7948CA

#1 RS232 interface selection needs an AC Adapter for DC5V Power Supply.

* All product specifications are subject to change without notice.

2D Barcode Scanner

Features

MT7920

2D Image Hand-held Barcode Scanner

- 1D & 2D barcode reader
- Hands-free application
- Support auto sensing
- High density imager

MT6500 / 6220

2D Fixed Mount Scanner

- Fixed 1D & 2D barcode reader
- Support auto sensing
- 60 scans/sec in omnidirectional mode
- Support IP 65 IP Rating (MT6220)

Specification

Product Picture			
	NEW	COMING SOON	
Model Name	MT7920	MT6220	MT6500
Optical Sensor	752(H)x 480(V) pixels 256 gray Level, CMOS Sensor	752(H)x 480(V) pixels 256 gray Level, CMOS Sensor	752(H)x 480(V) pixels 256 gray Level, CMOS Sensor
Type	Hand held 1D & 2D barcode reader	Fixed 1D & 2D barcode reader	Fixed 1D & 2D barcode reader
Auto Sensing	Supported	Supported	Supported
Resolution	0.1mm (4mil), Code 39	0.1mm (4mil), Code 39	0.1mm (4mil), Code 39
Depth of Field	90~250mm@20mil (Code 39) 45~230mm@20mil (Data Martix) 60~160mm@10mil (PDF417)	90~250mm@20mil (Code 39) 45~230mm@20mil (Data Martix) 60~160mm@10mil (PDF417)	90~250mm@20mil (Code 39) 45~230mm@20mil (Data Martix) 60~160mm@10mil (PDF417)
IP Rating	-	IP65	-
Scan Rate	- 1D mode: 200 scans/sec in linear emulation - 2D mode: 60 scans/sec in linear emulation	- 1D mode: 200 scans/sec in linear emulation - 2D mode: 60 scans/sec in linear emulation	- 1D mode: 200 scans/sec in linear emulation - 2D mode: 60 scans/sec in linear emulation
Interface	USB Virtual Com, RS232, USB(HID)	USB Virtual Com, RS232, USB(HID)	USB Virtual Com, RS232, USB(HID)

Ordering Information

Interface	RS232 (#1)	USB (key board)
MT7920 Series MT6220 Series	MT7922 MT6222	MT7925 MT6225

#1 RS232 interface selection needs an AC Adapter for DC5V Power Supply.

* All product specifications are subject to change without notice.

Wireless Barcode Scanner

Marson MT7937A wireless barcode scanner is adapted easy USB (HID) plug and play interface, and transmit range is up to 100 meters (open space). MT7937A is integrated wireless receiver and charger in one base station, and adjustable antenna for optimizing the radio frequency transmission performance.

Features

- Data Transmitting range up to 100 meters coverage (Open space)
- Comptible with bluetooth driver built-in Window operating system
- Compliant with Bluetooth Class 1 Version 2.0 standard
- Utility supports multi-languages
- Plug & Play

Specification

Picture					
Model Name	MT7937A	MT7947			COMING SOON ▼
Optional Sensor	2048 pixels, CCD	Laser Diode			
Light Source	660 nm Visible Red LED	Laser Diode 650 nm			
Resolution	0.1 mm (4 mil)	0.075 mm (3 mil)			
Depth of Field	40~350 mm @ 15.6 mil , EAN	30~250 mm @ 15.6 mil , EAN			
Scan Rate	200 scans/sec	100 scans/sec			
Interface	Charger to host (PC) : USB HID	Charger to host (PC) : USB HID			
Coverage	100M (open space)	100M (open space)			
Impact Resistance	1.5M	1.5M			
Charging Time	4 Hours	4 Hours			
Dimension	Main Unit : L160 x W69 x H88 mm Charger : L202 x W111 x H70mm				
Accessories	① Main Unit (Scanner)	② Charger	③ AC Adapter	④ USB Cable	⑤ Program CD
Model Name					
MT7937A					

* All product specifications are subject to change without notice.

Contact CCD Scanner

Marson contact scanners make work easier with fast, accurate barcode scanning in retail industry, manufacturing and enterprise environments. Marson provides different type of contact scanners for different applications that customers can select according to their requirement and budget.

Features

- Supported OPOS driver (MT6010)
- Ergonomic design
- Durable and economical
- LED indicates working status
- Read barcode from contact to 110 mm away

Specification

Picture		
Model Name	MT8010B (Black) / MT8010W (White)	MT6010
Optional Sensor	2088 pixels	2088 pixels
Light Source	650 nm visible red LED	660 nm visible red LED
Resolution	0.1 mm (4 mil)	0.1 mm (4 mil)
Depth of Field	0~30 mm @ 15.6 mil, EAN	0~110 mm @15.6 mil, EAN
Scan Rate	90 scans/sec	200 scans/sec
Interface	KB/RS232/USB HID	KB/RS232/USB HID/OPOS
Impact Resistance	1.8M	1.8M
Dimension	L158 x W76 x H64	L172 x W67 x H58mm
OPOS Driver	Supported	Supported
Warranty	2 years	

Ordering Information			
Interface Model Name	RS232 (#1)	Keyboard Wedge	USB (key board)
MT8010 Series	On Request	MT8013W / MT8013B	MT8015W / MT8015B
MT6010 Series	MT6012	MT6013	MT6015

#1 RS232 interface selection needs an AC Adapter for DC5V Power Supply.

*All product specifications are subject to change without notice.

Barcode Slot Reader

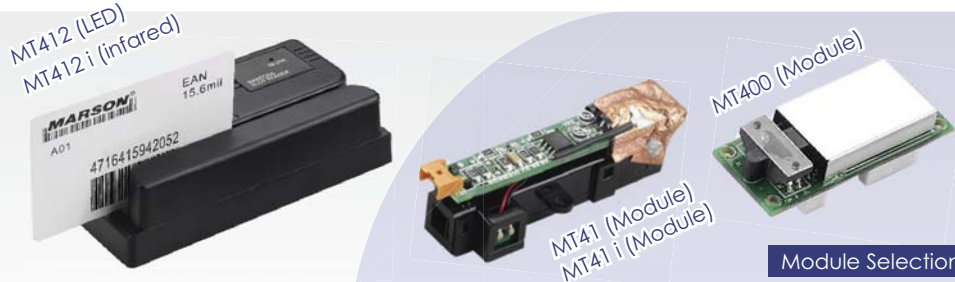
Marson MT412 barcode slot reader applies to security access control, time and attendance, process control with preprinted forms and scanning cards or badges. Its sealed optical system with rugged metal housing allows MT412 to read the label in the harshest industrial environment without degrading its performance.

MT41 and MT400 are barcode slot modules, suitable for many customized project requirement. Customer configuration is welcome.

Features

- Sealed optical system with rugged metal housing
- Wide bar code slot with flexible reading angle and higher resolution
- Extensive built-in or external decoder interface
- User configurable via programming cards
- EzU barcode configuration software supported

Specification

Picture		
Model Name	MT412 (LED)	MT412 i (infrared)
Optical	Photo Diode	Photo Diode
Light Source	660 nm (Visible)	850 nm (Invisible)
Resolution	0.127 (5mil)	0.127 (5mil)
Scan Range & Speed	50~700 mm / sec @ 15.6 mil, EAN	50~700 mm / sec @ 15.6 mil, EAN
Mechanical Shock	1.6M	1.6M
Dimension	L124xW61xH33mm	L124xW61xH33mm
Warranty	2 years	

Ordering Information					
Interface	Cover	USB (key board)	TTL	Keyboard Wedge	RS232
Model Name					
MT412 (LED) Series	Yes	MT412U	MT412	MT412K	MT412R (#1)
MT412i (Infrared) Series	Yes	MT412iU	MT412i	MT412iK	MT412iR (#1)
MT41 (LED) Module	-	-	MT41	-	-
MT41i (Infrared) Module	-	-	MT41i	-	-
MT400 Reader Module	-	-	MT400 (#2)	-	-

* All product specifications are subject to change without notice.

#1 RS232 interface selection need an AC Adapter for DC5V Power Supply.
#2 MT400: Analog output (0.5 V pp)

Pen (Wand) Scanner


With its pen tip made of sapphire which is hard enough to withstand any harsh environment, the wand scanners accept wider range swiping speed. In either lower speed or higher speed swiping, the wand scanner still read barcode success fully and smoothly.

User replaceable sapphire tip, dust and dirty protection, and durable cable construction allow the rugged wand scanners to read the bar codes easily without any damage to the labels.

Features

- Ergonomic Design
- Easy to connect
- Compact size
- Durable
- Light weight
- Read barcode from contact to 1 mm away
- Fast Decoding

Specification

Picture			
Model Name	MT52501(8 bit)	MT205B (8 bit) / MT5300 (8 bit)	MT 500 (TTL Module)
Optical	Photo Diode	Photo Diode	Photo Diode
Light Source	650~660 nm	660 nm LED	660 nm LED
Resolution	0.127mm (5 mil)	0.1mm (4 mil)	0.15mm (6mil)
Depth of Field	1 mm	1 mm	1 mm
Scan Speed	100~600 mm / sec	50~750 mm / sec	100~600 mm / sec
Mechanical shock	1.5 meter drop onto concrete	1.5 meter drop onto concrete	-
Dimension	L150xW29.6xH22mm	Pen : L150x ø13.5mm Decoder : L60xW40xD18mm	L72xW22.5x ø13.5mm
Warranty	2 years	2 years	To be defined

Ordering Information

Interface	TTL	MAC	RS232 (#1)	Keyboard Wedge	USB (key board)
MT205B Series	MT205B	x	x	x	x
MT5300 Series	x	MT5304	MT5302	MT5303	MT5305
MT52501 Series	x	x	MT52521	MT52531	MT52551
Module	MT500 (TTL module)	x	x	x	x

#1 RS232 interface selection needs an AC Adapter for DC5V Power Supply.

* All product specifications are subject to change without notice.

Interface & Accessories




Multifunctional USB Converter

Product Picture			
Model Name	MT606-3	MT607	MT609
Description	USB port for keyboard (PS2) and scanner convert to USB	USB port for PS2 to USB	USB (Virtual Com) port for RS232 convert to USB (Virtual Com)

Stand

Product Picture				
Model Name	MT800B (Black) MT800W (White)	MT510	MT709 Series	MT900
Scanner	MT8010 Series	MT52501 Series	MT7930 / MT7940 Series	MT9060 / MT6010 Series

Barcode Scanner Cable

Product Picture			
Interface	RS232	Keyboard	USB
Port Type	DB9F	PS/2	① USB Virtual Com ② USB HID

* All product specifications are subject to change without notice.

* All Marson cables have passed bending test 1,000,000 times of high quality criteria.



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