



# MS842R *2D Imager*

High performance at competitive price!

This MS842R 2D imager is the ideal solution for a wide range of applications and industry sectors. It combines high performance, low weight, rugged & durable design and various operating modes while remaining at competitive price!

*“MS842R is available in USB/HID, USB/SPP and also supports OPOS protocol!”*

#### **Best-in-class performance (superior data capture)**

Incorporating a high-speed decoder and high-performance engine, the MS842R scanner delivers top performance. This scanner supports all 1D and 2D barcodes and boasts impressive features such as broad illumination range, high frame rate, and wide skew and pitch angles, all of which combine to deliver a high level of efficiency

Fast and Accurate - the MS842R is specially designed for wide range of demanding scanning applications (inventory management, store management, ticket management, access verification, etc.).

#### **Designed to last**

Featuring a rugged design, the MS842R scanner is IP42 rated for environmental protection and has a high 1.8m drop specification, making the scanner very durable. A trigger switch designed for 10 million times of use ensures the MS842R delivers productive use for a long period of time. It's ease-of-use is further enhanced by the scanner's low weight of just 170g, which makes the scanner easy to use and carry around.

#### **Wide range of applications**

With its support for a broad variety of linear, 2D stacked, 2D matrix and postal codes the MS842R scanner is well-suited for a wide range of applications and industry and enterprise sectors.

This is enhanced by its improved reading performance in sunlight, and its support for poorly printed barcodes and mobile screen reading. Its operation modes – trigger mode & presentation mode – makes the scanner suitable for use in the most practical way, depending on the scanning task.

*“MS842R features a state-of-art 2D imager, which gives a great reading performance over 1D and 2D barcode on both screen and paper.”*

#### **Features:**

- Competitive price with high performance and 5 years warranty\*
- Support wide variety of symbologies - including 1D, 2D and PDF417 barcodes
- Versatile scanning mode to meet different working environment needs
- Support reading poorly printed barcode and directly from mobile screens
- Fast and accurate scan, ergonomic design, easily for holding
- Rugged and durable design with IP42 and 1.8m drops
- Regulation approvals: CE/ FCC/ VCCI/ BSMI



# v2.MS842R Specifications

## Operational & Performance

Receiving Device	CMOS sensor with 640 x 480 pixel
Light Source	White LED with CCT 5000K
Ambient light	0-100,000 lux (total darkness to bright sunlight)
Motion Tolerance	Up to 100 cm/s (4 in/s) for 13 mil UPC at optimal focus
Typical frame rate	30 frames per second
Skew Angle	± 45°
Pitch Angle	± 45°
Printing Contrast Scale	35% minimum print contrast ratio

## Reading distance (DOF PCS=80%)

SR	Near	Far
100% U.P.C.	55mm	280mm
Code 39, 5 mil	61mm	130mm
Code 39, 20 mil	60mm	380mm
PDF417, 6.7 mil	60mm	125mm
Data Matrix, 10 mil	60mm	130mm
QR, 20 mil	50mm	230mm

## Symbologies

Linear: Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, GS1 Data bar  
 2D Stacked: Codablock A, Codablock F, PDF417, MicroPDF417  
 2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible(Han Xin) code  
 Postal Codes: Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet

## Operation modes

Trigger mode and presentation mode

## Power Source

Operating voltage	DC 5V
Consumption	Operate: 400mA Standby: 160mA

## Enclosure

Scanner dimension	176 x 74 x 89 mm
Scanner weight	170g (Scanner only)
Switch life	10 million times

## Environmental

ESD Protection	Functional after 8K Contact and 12K Air
Operating temperature	0°C to 50°C
Storage temperature	-20°C to 70°C
Humidity	95% relative humidity
Drop resistance	1.8 m onto concrete
IP rate	IP42

## Communication

Interface	USB
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## Accessories

Interface cables  
Hand-free stand

## Regulatory approvals

CE, FCC, BSMI, VCCI

## Warranty

5 Years scanner only\*  
1 Year USB cable



## Unitech Europe

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because we care

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Unitech Europe

Unitech Japan

Unitech Taiwan

\* Warranty: Unitech reserves the right to call back the defect units at her discrete sole decision if Unitech may find it necessarily. Upon the calling, the returning shipping cost will be borne by Unitech except tax and duty if any. Unitech has full decision to stop the warranty coverage before expiration if the defect is found due to abused, sabotage, and/or caused by the acts of God Specifications subject to change without notice.

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