

# Q Code

## 6551/6552-DS/ZR/MR/DP ESD 2D Gun Type barcode scanner



### Application Ability

QC655x series products, using 1.2 megapixel-level (1280 x 960) optical sensor, combined with PRZM intelligent imaging technology, allocate decoding action to scan engine and decoding chip to operate synchronously, thereby shortening data processing time and speeding up data collection, according to different application scenarios. And a variety of different levels of scanning cores, can provide excellent long-distance (6M) or short-distance (4.3cm) reading, wide-angle or narrow-angle field of view, with extraordinary motion tolerance and intelligent compensation for decoding bad barcodes. Excellent performance, unique The PickList function enables you to accurately read the actual barcode among many dense barcodes. The automatic decoding ability can work in low light, and the reading task can be easily completed in the environment of poor light.

### DPM barcode capture capability (QC655x-DP only)

Powerful intelligent calculation and optical design, the QC655x-DP can capture DPM barcodes of almost any size, surface, different contrast or high density, including mechanical dot engraving, laser etching, ink coding, chemical etching, thermal spraying. The different types of DPM barcodes.

### Barcode Reading Advantages

Omnidirectional scanning capability for unparalleled ease of use, multiple different aimers (LED dot/cross laser/dot laser), read distance options (close, medium and long range), micro barcode (4 x 4 mm), high density barcode (3 mil), DPM barcode, document and image reading.



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### Convenient system setting and version update capability

Through the online setting program, you can update and upgrade the latest software version of QC655x at any time, so that your device is always in the latest version. You can also use this program to quickly and easily complete the setting requirements of various applications to meet your application process. set up!

### Important Efficacy of ESD Equipment

Electrostatic discharge protection (ESD) equipment is an indispensable and important equipment in the electronic product manufacturing industry. Since static electricity has a huge impact on the quality, yield and safety of electronic components in the production process, the use of ESD equipment for electronic component manufacturers can effectively reduce static threat, Minimize the potential hazards of static electricity in the production process to reduce industrial safety accidents and production losses.

### ESD electrostatic discharge protection standard body

QC655x ESD series, the whole series adopts Japanese ESD material masterbatch mixed with high-strength plastic raw materials (PC with ABS), and the shell injection technology of one-piece injection molding ensures the ESD conductive discharge standard ( $10^7 \sim 10^9$  power), and also ensures The strong performance of the product, the protection of ESD can be called permanent protection. Compared with other products on the market, it is made of general plastic, and then sprayed with electrostatic conductive paint on the outside. With the user's contact and use, only sprayed with electrostatic protective paint, the ESD protection is only guaranteed for 1-2 years.

### connection cable

The QC655x ESD series is used to connect the equipment end wire, also uses ESD masterbatch mixed with flexible plastic, one-piece injection molding wire sheath, built-in conductive circuit, effectively export the static electricity accumulated in the scanner gun, instead of other ESD products using general plastic wire outside Spray conductive paint to use as connecting cable.



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	QC655x-DS	QC6551-ZR	QC655x-MR	QC655x-DP
Category	Imager			
Housing	ESD + PC + ABS			
<b>Performance</b>				
1D Symbologies	Autodiscriminates all standard 1D codes including GS1 DataBarTM linear codes.	All Major, Digimarc	Autodiscriminates all standard 1D codes including GS1 DataBarTM linear codes.	
2D Symbologies	PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse, Maxicode, QR Code, MicroQR, Aztec, Han Xin, Han Xin Inverse	DF417, MicroPDF417, Datamatrix, QR Code, Micro QR Code, Aztec, Composite, TLC-39, MaxiCode, Dotcode; Grid Matrix		
Postal Codes	Australian Postal, Japan Postal, KIX, Postnet, Planet, UK Postal, USPS 4CB/One Code/ Intelligent Mail, UPU FICS Postal	US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), Mailmark		
Image File Formats	–	BMP, TIFF, JPEG		
Reading Precision	≥3mil	≥ 3mil	≥4mil	≥ 3mil
Illumination	1 Warm-White LED	2X Warm white LEDs		
Aiming Led	Green LED	655nm Laser Laser cross		655nm Laser Laser Point
Sensor Resolution	1280 x 960 pixels, rolling shutter	1280 x 960 pixels, global shutter		
Depth of Field	3 mil Code 39 : 56 - 172mm 5 mil Code 39 : 61 - 241mm 5 mil Code 128 : 71 - 229mm 6.67 mil PDF 417 : 61 - 203mm 10 mil DataMatrix : 74 - 229mm 100% UPCA : 46 - 495mm 15 mil QR Code : 30 - 305mm 19 mil QR Code : 30 - 356mm	3 mil Code 39 : 71 - 158mm 5 mil Code 128 : 58 - 221mm 5 mil PDF 417 : 76 - 206mm 6.67 mil PDF 417 : 56 - 269mm 10 mil DataMatrix : 61 - 269mm 100% UPCA : 41 - 584mm 15 mil Code 128 : 61 - 640mm 20 mil Code 39 : 41 - 922mm	5 mil Code 128 : 188 - 406mm 5 mil PDF 417 : 206 - 333mm 7.5 mil DataMatrix : 211 - 325mm 10 mil DataMatrix : 178 - 432mm 100% UPCA : 58 - 965mm 15 mil Code 128 : 102 - 1017mm 20 mil Code 39 : 53 - 1372mm 100 mil Code 39 : 279 - 4369mm 160 mil DataMatrix : 292 - 3505mm	3 mil Code 39 : 43 - 109mm 5 mil PDF 417 : 43 - 109mm 6.67 mil PDF 417 : 43 - 119mm 5 mil DataMatrix : 48 - 102mm 10 mil DataMatrix : 41 - 124mm 5 mil QR Code : 48 - 102mm 10 mil QR Code : 28 - 127mm 100% UPCA : 61 - 185mm
Symbol Contrast	≥ 25%			
Field of View	Horizontal: 45°, Vertical: 34°	Horizontal: 48°, Vertical: 36.7°	Horizontal: 31°, Vertical: 23°	
Skew, Pitch and Roll	Skew ± 60° Pitch ± 60° Roll ± 360°			
<b>Mechanical/Electrical</b>				
Input Voltage	VCC=5.0			
Operating Current	USB: Total current draw: 280mA Peak; 260mA RMS at Vin = 5.0V	Total Current Draw: 440mA Current draw in low power (hibernate mode) = 360uA		
Dimension	160 mm H x 68.8 mm W x 86 mm D			
Weight	125g ± 5 (Without Cable) , 220g ± 5 (With USB Cable)			
Shock Rating	2000 G ± 5%, any mounting surface			
<b>Environmental</b>				
Operating Temperature	-20°C to 50°C	-30°C to 60°C		
Storage Temperature	-30°C to 70°C	-40°C to 70°C		
Humidity	Operating: 95% RH, non-condensing at 122°F / 50°C Storage: 85% RH, non-condensing at 158°F / 70°C	Operating/Storage: 95% RH, non-condensing at 60°C		
Ambient Light	Max 107,639 lux (direct sunlight)	Max 96,900 lux (direct sunlight)		
<b>Regulatory</b>				
Laser Classification	–	Laser Aim Models: Intended for use in CDRH Class II/IEC 825 Class 2 devices LED Aim Models: Classified as Exempt Risk Group per IEC/EN 62471		
Electrical Safety	–	Laser Aim Models: UL, VDE and CU recognized laser component LED Aim Models: UL Recognized Component which complies with IEC/EN 60950-1		
Accessories	2M USB Cable or 2M RS232 Cable			