

## AR-5000CR Specification (Passport OCR Scanner)

### High Scanning Performance on Printed and Displayed OCR, 1D and 2D Barcodes

- OCR(Passport) Scanning
- 1D/2D Code Scanning
- Global Shutter Technology
- Megapixel Sensor
- Zebra's PRZM Intelligent Imaging
- Maximum Motion Tolerance
- Wider Field of View
- Extraordinary Working Range



**AR-5000 Series are empowered by Zebra Technology.**



Only from Zebra, PRZM's software decode algorithms deliver superior performance on poor quality and challenging barcodes, for first-time, every-time scanning.

It takes global shutter to capture the entire image simultaneously, enabling fast capture of the barcode image. Its high-quality lens ensures the quality of the image from corner to corner and provides the high resolution required to capture the clearest image. High first-pass read rates allow workers to quickly capture barcodes, whether the scanner or the barcode are in motion.

It captures large barcodes and multiple barcodes quickly and easily with a larger 'sweet spot' – no need for users to spend time repositioning the device to capture the barcode. It has extraordinary working range to capture barcodes farther than 24 in./60cm away, allowing you to meet the needs of more types of users and applications.

### OCR (Optical Character Recognition) Reading Technology

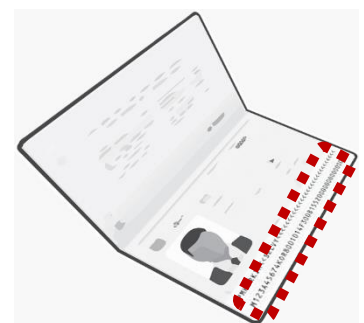
OCR is a feature that enable the conversion of text images into machine-encoded text. AR-5000CR can be configured to capture various OCR font types (OCRA, OCRB, MICR E13B, US Currency Serial Number) as text.

And AR-5000CR can be set up for OCR programming. It can read 6-to-60-point OCR typeface. To decrease OCR mis-decodes and speed OCR reading, it is set an accurate OCR template and character subset and use a check digit.

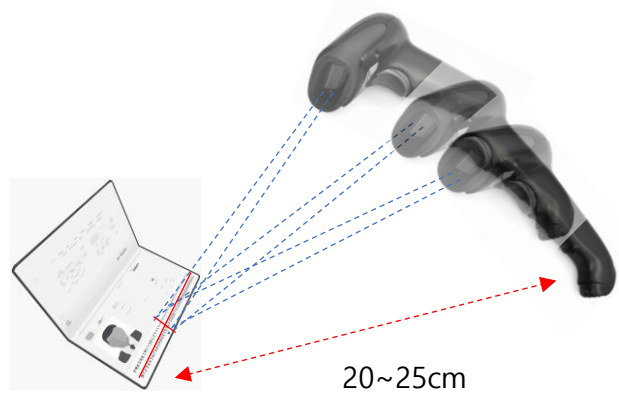
To set feature values, scan a single barcode or a short barcode sequences. The settings are stored in non-volatile memory and are preserved even when the imager power down.

To increase the readability by AR-5000CR, two factors should be considered.

- The light reflection on the surface of passport should be eliminated by tilting the Scanner because it makes the OCR data vague.



- AR-5000CR has the Check-Digit module to improve the accuracy of the collected data and it takes a little more time to calculate.



The ideal distance from the OCR data to the Scanner is 20~25cm (depending on the circumstance light). After aiming the OCR, pull the trigger and wait 1~2sec to decode. Unless AR-5000CR decodes the OCR, tilt it little up or little down to eliminate the light reflection and then stop and pull the trigger again.

## Specification

|                       |                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimension</b>      | 165 x 95 x 70 mm                                                                                                                                                                                                           |
| <b>Weight</b>         | 120g                                                                                                                                                                                                                       |
| <b>Host Supply</b>    | Supply Voltage 5.0+/-0.5V<br>Suspended Current Draw 5mA<br>Idle Current 130mA<br>Operating Current 300mA<br>Peak Current 450mA                                                                                             |
| <b>Temperature</b>    | Operating<br>-30°C to 60°C(-22F to 140F)<br>Storage<br>-40°C to 70°C(-40F to 158F)                                                                                                                                         |
| <b>Humidity</b>       | Operating<br>90% RH, non-condensing at 60°C<br>Storage<br>85% RH, non-condensing at 70°C                                                                                                                                   |
| <b>Shock</b>          | Internal Barcode Engine<br>2000 G +/- 5% applied Via any mounting<br>surface at -30°C and 55°C for a period of 0.85 +/- 5% msec<br>2500 G +/- 5% applied Via any mounting surface at 20°C for a period of 0.70 +/- 5% msec |
| <b>Software Tools</b> | Zebra 123Scan<br>SDK for Windows and Linux<br>Drivers (OPOS, JPOS, USB CDC)                                                                                                                                                |

|                        |                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1D Decoding</b>     | Code39 (Full ASCII, Code32/Italian Pharmacode, Trioptic), Code 128(EAN-128, ISBT-128) Code bar (Ames), Code 11 (Matrix 2 of 5, Chinese 2 of 5), UPC/EAN/JAN, Bookland/ISBN, ISSN, Coupon Code, Databar(Omidirectional, Limited, Expanded, Databar coupon) etc. |
| <b>2D Decoding</b>     | PDF (Macro PDF), MicroPDF(Macro Micro PDF)                                                                                                                                                                                                                     |
| <b>1D+2D</b>           | Composite (CC-A, CC-B, CC-C), TLC39                                                                                                                                                                                                                            |
| <b>Postal Codes</b>    | Australia Post, Japan Postal, Canada Postal, Netherlands KIX Code, US planet, USPS,4CB/One Code/Intelligent Mail, UPU FICS Postal, Mailmark, French, Lottery, Posti4S, Korean 3 of 5                                                                           |
| <b>Matrix Decoding</b> | Aztec (Aztec Rune), Data Matrix (ECC, GS1 Data Matrix), QR (Micro QR, GS1 QR)                                                                                                                                                                                  |
| <b>OCR Decoding</b>    | OCRA, OCRB (Incl Passport, Travel Doc and Visa), MICR, US Currency Serial Number                                                                                                                                                                               |

## AR-5000 Series Specification

인쇄 및 표시된 1D 및 2D 바코드의 높은 스캔 성능

- 1D/2D 코드, OCR(여권) 스캔(\*AR-5000CR 만 해당)
- 글로벌 셔터 기술
- 메가픽셀 센서
- Zebra 의 PRZM 지능형 이미징
- 최대 동작 허용 오차
- 더 넓은 시야
- 놀라운 작업 범위



AR-5000 시리즈는 Zebra Technology 를 통해 구현됩니다.

Zebra 에서만 제공되는 PRZM 의 소프트웨어 디코드 알고리즘은 낮은 품질과 까다로운 바코드에 대해 뛰어난 스캔 성능을 제공합니다.

바코드 이미지를 빠르게 캡처하기 위해, 전체 이미지를 동시에 캡처할 수 있는 글로벌 셔터를 적용하고 있으며 고품질 렌즈는 바코드 스캔 이미지의 품질을 보장하고 가장 선명한 이미지를 캡처하는 데 필요한 고해상도를 제공합니다. 또한 높은 최초 스캔 확률은 스캐너 또는 바코드가 움직이는지 여부에 관계없이 작업자가 바코드를 빠르게 캡처할 수 있도록 합니다.

더 큰 '스위트 스팟'으로 빠르고 쉽게 큰 사이즈 바코드와 여러 바코드를 캡처하므로 사용자가 바코드를 캡처하기 위해 기기 위치를 변경할 필요가 없습니다. 24 인치/60cm 떨어진 곳에서 바코드를 캡처할 수 있는 탁월한 작업 범위를 갖추고 있어 다양한 유형의 사용자와 애플리케이션의 요구를 충족시킬 수 있습니다.

### Specification

|                      |                                                                                                                                |                    |                                                                                                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimension</b>     | 165 x 95 x 70 mm                                                                                                               | <b>Humidity</b>    | Operating<br>90% RH, non-condensing at 60°C<br>Storage<br>85% RH, non-condensing at 70°C                                                                                                                                                                       |
| <b>Weight</b>        | 120g                                                                                                                           | <b>Shock</b>       | Internal Barcode Engine<br>2000 G +/- 5% applied Via any mounting surface at -30°C and 55°C for a period of 0.85 +/- 5% msec<br>2500 G +/- 5% applied Via any mounting surface at 20°C for a period of 0.70 +/- 5% msec                                        |
| <b>Host Supply</b>   | Supply Voltage 5.0+/-0.5V<br>Suspended Current Draw 5mA<br>Idle Current 130mA<br>Operating Current 300mA<br>Peak Current 450mA | <b>1D Decoding</b> | Code39 (Full ASCII, Code32/Italian Pharmacode, Trioptic), Code 128(EAN-128, ISBT-128) Code bar(Ames), Code 11 (Matrix 2 of 5, Chinese 2 of 5), UPC/EAN/JAN, Bookland/ISBN, ISSN, Coupon Code, Databar (Omidirectional, Limited, Expanded, Databar coupon) etc. |
| <b>Start Up Time</b> | From Power On<br>RS-232: 2100 ms typical<br>USB: Host dependent<br>From Low Power Mode<br>3ms typical                          |                    |                                                                                                                                                                                                                                                                |
| <b>Baud Rate</b>     | 9600,19200,38400,57600,<br>115200,230400,460800,921600                                                                         |                    |                                                                                                                                                                                                                                                                |
| <b>Temperature</b>   | Operating<br>-30°C to 60°C(-22F to 140F)<br>Storage<br>-40°C to 70°C(-40F to 158F)                                             |                    |                                                                                                                                                                                                                                                                |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2D</b>           | PDF (Macro PDF),                                                                                                                                                                                   |
| <b>Decoding</b>     | MicroPDF(Macro Micro PDF)                                                                                                                                                                          |
| <b>Postal Codes</b> | Australia Post, Japan Postal,<br>Canada Postal, Netherlands KIX<br>Code, US planet, USPS 4CB/One<br>Code/Intelligent Mail, UPU FICS<br>Postal, Mailmark, French<br>Lottery, Posti4S, Korean 3 of 5 |
| <b>1D+2D</b>        | Composite (CC-A, CC-B, CC-C),                                                                                                                                                                      |
| <b>Decoding</b>     | TLC39                                                                                                                                                                                              |
| <b>Matrix</b>       | Aztec (Aztec Rune), Data                                                                                                                                                                           |
| <b>Decoding</b>     | Matrix (ECC, GS1 Data Matrix),<br>QR (Micro QR, GS1 QR)                                                                                                                                            |
| <b>OCR</b>          | OCRA, OCRB (Incl Passport,                                                                                                                                                                         |
| <b>Decoding</b>     | Travel Doc and Visa), MICR, US<br>Currency Serial Number                                                                                                                                           |
| <b>Software</b>     | Zebra 123Scan                                                                                                                                                                                      |
| <b>Tools</b>        | SDK for Windows and Linux<br>Drivers (OPOS, JPOS, USB CDC)                                                                                                                                         |