# AsReader®

## ASR-020D (2D Barcode Scanner)



| Model Name | | ASR-020D | ASR-020D-V2/ASR-020D-V3/ASR-020D-V4 |
|---|---|---|---|
| Barcode | Reading method | 2D CMOS | |
| | Readable range | ■Barcode density　■Reading distance from tip of scanner<br>CODE39 - 4mil : 9 〜 22cm<br>CODE128 - 5mil : 8 〜 20cm<br>CODE39 - 5mil : 6 〜 34cm<br>PDF417 - 5mil : 8 〜 21cm | ■Barcode density　■Reading distance from tip of scanner<br>Data Matrix - 10mil : 8 〜 25cm<br>100% UPCA　　　: 5 〜 65cm<br>Code39 -20mil　: 6 〜 76cm |
| | Reading width | 40°（horizontal), 26°（vertical) | |
| | Reading angle | Pitch: ±60°　Roll: 360°　Skew: ±60°　*1 | |
| | Readable barcodes | ■1D:JAN, UPC/EAN, CODE11, CODE39, CODE93, CODE128, ITF(INTERLEAVED 2of5), DISCRETE 2of5, CHINESE 2of5, MATRIX 2of5, CODABAR（NW7）, MSI, GS1 DATABAR OMNIDIRECTIONAL, GS1DATABAR LIMITED, GS1DATABAR EXPENDED<br>■2D: PDF417, MicroPDF417, Datamatrix, QR Code, Micro QR Code, Aztec, RSS, Composite, TLC-39, MaxiCode<br>Postal: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX) | |
| | Light source | Red LED | |
| Power source | Battery capacity | Built-in rechargeable lithium-ion battery (700mAh) | |
| | Number of scans | About 34,000　*2 | About 28,000　*3 |
| | Charging method | Magnetic charging cable　*4 | |
| | Charging time | Approx. 2 hours (built-in battery)　*5 | |
| Key input | | 2 trigger key | |
| Communication | Interface | MFi on Lightning(SDK)　*6 | MFi on Lightning(SDK or HID)　*7 |
| Appearance | Dimensions (W)x(D)x(H) | 63.65 × 9.7 × 117.19 mm (2.51 × 0.38 × 4.61 inch) *8 | |
| | Weight (with battery) | Approx. 70g | |
| | Material | PC | |
| | Casing color | White | |
| | LED display | Blue LED: Connected with device / Blinking Blue LED: Reading /<br>Red LED: Battery is charging / Faint Red LED: Battery is fully charged | |
| Environment | Operating temperature | -10〜45 C, 20〜85 % RH (Charge at 0 C or more, however) | |
| | Storage temperature | -20〜60 C, 10〜95 % RH | |
| | IP rating | IP54 compliant | |
| | Anti-drop | (Six-sided × 4 edge, once each) 1.5 m (59.06 inch)　*9 | |
| Certificate | | Apple MFi / FCC / CE / RoHS | |
| Bundled items | | Magnetic charging cable / Earphone extension cable | |

*1 Varies depending on barcode type.　*2 Number of times when the BEEP sound, vibration and illumination are all set to ON.
*3 Number of times when the BEEP sound, vibration and illumination are all set to ON. The decoder CPU has been changed (dual core → quad core) from ASR-020D. This allows ASR-020D-V2/ASR-020D-V3/ASR-020D-V4 higher reading accuracy. While, the battery retention time is shortened due to increased standby current.
*4　Standard iPhone® 2A charger is recommendd for the magnetic charging cable.
*5 iPhone® and AsReader battery will be recharged simultaneous. iPhone® and AsReader battery will be recharged in 3.5h and 2h respectively in simultaneous recharging mode.
*6 A specialised SDK for communication via Lightning is available for download.
*7 A specialised SDK for communication via Lightning is available for download. SDK is unnecessary when using AsReader in HID mode.　*8 Excluding protrusions.
*9 The iPhone® screen may break depending on the drop angle.
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## https://AsReader.com