

# SMART PHONE MEETS **SMART READER**

*iPhone® Rugged Barcode Sled/Case  
for Nursing Care, Hospitals, and More...*



Actual Size  
6.02" 153mm tall  
with iPhone® 8/7/6  
(6.85" 174mm tall w/  
iPhone® 8/7/6Plus)

## **AsReader®**

Use your iPhone®, iPad® & iPod touch® **As a Reader**

One sled that turns your  
iPhone®, iPad® and iPod touch® into a  
**Professional Medical BARCODE** and/or **RAIN RFID** Reader



# AsReader Features

Hybrid cases feature non-porous plastic and silicone that are easy to clean using even harsh healthcare cleaning chemicals like bleach wipes and CaviCide

Special hard-coated window designed to take on harsh chemicals like KemiWipes, CaviCide, and bleach wipes

Raised bumpers for extra protection of scanner, phone, and front screen



LED Pointer, helps select only the desired barcode

LED/CCD instead of Laser is safer for eyes and children

Easy to use, large buttons/triggers on both sides which can be used left, right, & simultaneously to scan barcodes

In use at more than 100 Hospitals around the globe, including **Phoenix Childrens Hospital**, U.S. News & World Reports' "Best Childrens Hospital" four years in a row & winner of Healthcare IT News' "Best Hospital IT Department."

Silicone accents protect your device while making gripping easy, with or without gloves

Lanyard or Hand-strap loops on both left and right bottom-corners

"Rugged Beauty" Certified IP54 Water & Dust resistance

# The AsReader ASR-020D: "A Rugged Beauty!"



Full access to both front & back cameras for medical imaging

AsReader Barcode Scanners read all major barcodes, even on tough curved and reflective surfaces, including computer-screens.

Full access to Touch ID on newer iOS Devices

Access to Microphone, Speaker, and Audio Jack

Magnetic charging means simple, quick & easy. No more tedious plugs that can break off

Drop tested from 5 ft (1.5m) on all 6-sides and all 4-corners

Uses Lighting Connector "Hard-wired" means NO tedious Bluetooth pairing

Super-thin, lightweight, sleek form-factor, yet well protected



Independent battery outlasts phone 2:1 and has its own charge-level indicator

Magconn Cable  
charges from 360°



## Charging options

### Magconn USB Charging Cable ASA-003C Magconn USB Charging Stand ASA-006S

Magnetic Magconn charging system is so easy to use that staff charge their devices more often, giving them the power to last through long shifts with **“grab & go” convenience of NO wires with jacks and NO cumbersome Bluetooth pairing.**

Charge the sled and iPhone simultaneously.

AsReader sleds include a 700 mAh built-in battery providing 34,000 x 2D scans on one charge. That is continuous scanning 1x/sec for 9.4 hours.

Scanner Battery generally outlasts the phone 2:1.

Charge time for AsReader from empty to full:  
approx. 2 hours



## Scan

### All Major 2D & 1D Barcodes

Including, but not limited to:  
Aztec, Bookland EAN, Bookland ISBN, Codabar (NW-7), Code 11, Code 32, Code 39, Code 93, Code 128, Composite (CC-C / CC-A/B / TLC-39), Data Matrix, Discrete 2of5, EAN-8/JAN 8, EAN-13/JAN 13, GS1 DataBar (Expanded / Limited / Omnidirectional / Stacked / Truncated), GS1-128 (UCC/EAN-128), Han Xin, Interleaved 2 of 5 (ITF), ISBT 128, ISS EAN, JAN (UPC/EAN), Matrix 2of5, Maxicode, MicroPDF417, MSI, PDF417, QR Code, MicroQR Code, RSS, TLC-39, UPC-A, UPC-E, UPC-E1, US PostNet, US Planet, ...and many more.

Scans barcodes quickly,  
even on computer-screens, curved, and reflective surfaces.  
Features a safe, LED Pointer - No Lasers.

Just a few examples:



1D



2D / QR



2D

# The AsReader ASR-020D: "A Rugged Beauty!"



"Combo" 2D+RFID  
ASR-0230D pictured here



## Rugged Beauty

Hybrid cases feature non-porous plastic and silicone that are easy to clean using even harsh healthcare cleaning chemicals like bleach wipes and CaviCide.

IP54 Certified for dust and water resistance.

5-foot (1.5m) drop-tested on all-6-sides and all-4-corners.

"Combo" 2D Barcode with RAIN UHF RFID and/or HF/NFC AsReaders also Available

## Integrated in many software packages:

EPIC Rover, Over 100 IBM Apps, and Allscripts Sunrise Mobility software are currently compatible with AsReader SDK for scanning functionality.

Many more coming soon

## SDK and Software-Integration Support

A Royalty-Free SDK, Software Development Kit, including a manual and source code samples, is available on our website and most developer questions are answered quickly.

## 11+ year timeline

HQ: Asterisk, Inc.  
founded in Japan

2007



Released 1st  
AsReader device

2011



2nd Gen  
AsReader

2014



3rd Gen  
modular AsReader  
& RAIN UHF RFID

2015

RAIN UHF RFID  
10m (32 ft)  
Long-Range Guns



2018



**iPhone® 8/7/6s/6 AsReader case ASC-P7H is available in White or Black:**



**iPhone® 8Plus/7Plus/6sPlus/6Plus AsReader case ASC-P7PH is available in Black or White:**



The ASR-020D sled is “modular,” so the SAME sled/dock fits all of the following devices, by simply changing the outer-case(s):

iPhone® SE/5s/5, iPhone® 8/7/6s/6, iPhone® 8Plus/7Plus/6sPlus/6Plus, iPod touch® 6th & 5th Generation, iPad mini®3/2/1, iPad® Air2 / iPad® Pro 9.7.



## Barcode AsReader Product Data

Product	AsReader 2D+1D Barcode Sled/Dock	
Model Number	ASR-020D	
Bar code	Scanning method	High Resolution 2D CMOS 1280 x 800 pixels
	Minimum Resolution	0.102mm~0.508mm (4mil~20mil)
	Reading Distance	1.8" to 30" (46 to 760mm) (*1)
	Reading angle	Pitch: ±60° Roll: 360° Skew Motion: ±60°
	Readable Codes	<b>1D:</b> JAN, UPC/EAN, CODE11, CODE39, CODE93, CODE128, ITF(INTERLEAVED 2of5), DISCRETE 2of5, CHINESE 2of5, MATRIX 2of5, CODABAR(NW-7), MSI, GS1 DATABAROMNIDIRECTIONAL, GS1DATABAR LIMITED, GS1DATABAR EXPANDED and many more... <b>2D: All above 1D and</b> PDF417, MicroPDF417, Datamatrix, QR Code, Micro QR Code, Aztec, RSS, Composite, TLC-39, MaxiCode, Postal: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX)
	Light Source	Aimer: Visible Red 610nm LED. Illumination: Hyper-Visible Red 660nm LED. Reads in ambient light ≤107,639 lux
Battery	Battery Capacity	Built-in rechargeable lithium-ion battery 700mAh
	Continuous operation time	34,000 times: scanning about once a second for 9.4 hours (*2)
	Power Source	Magconn cable (*3)
	Charging time	About 2 hours from empty (Built-in battery) (*4)
Key input	Hardware buttons	2 trigger keys (Left, Right, or Simultaneous for on/off)
Communication	Interface	Hard-wired MFi on Lightning Connector. No Bluetooth (*5)
Appearance	Dimensions W x D x H	Sled/Dock only: 2.51" x 0.38" x 4.61" (63.7 x 9.7 x 117.2mm) *excluding protrusions
	Weight (incl. Battery & Case)	iPhone 8/7/6s/6 size: 104g (3.7oz) w/o iPhone. iPhone 8Plus/7Plus/6sPlus/6Plus size: 127g (4.5 oz) w/o iPhone.
	Material	Non-Porous PC Polycarbonate Plastic
	Sled/Dock Color, Case Color	Sled/Dock is White. Cases are available in Black or White
	LED Indications	Non-blinking Blue LED: Connected with device. Blinking Blue LED: Reading RFID tag. Non-blinking Red LED: Battery is charging. Faint Red LED: Battery is fully charged.
Environment	Operation environment	14 to 113 °F (-10 to 45 °C) at 20 to 85% RH. Note: Li-ion battery charging only occurs at 32 °F (0 °C) or higher.
	Storage environment	-4 to 140 °F (-20~60 °C) at 10 to 95 % RH
	IP Rating	IP54 Compliant for dust and moisture resistance
	Anti-drop	Dropped from 5 ft (1.5m) to all six-sides and all four-corners. (*6)
Certificates	Apple MFi / FCC / CE / RoHS	
Requirements	iOS Device(s) - not included:	iPhones 8Plus/7Plus/6sPlus/6Plus, 8/7/6s/6, SE/5s/5, iPod touch 6th/5th Gen(*7), iPad mini 3/2/1, Air2/Pro9.7
	OS	iOS8.1.1 and higher, except iOS9.2.x (*8)
	Bundled items	Case, Magconn USB Charging Cable, iPod touch adapter sheet (P5H only), Installation instructions manual



**RAIN UHF RFID  
HF/NFC RFID  
2D Barcode + RFID  
"Combos" also available**

\*1 It may depend on a bar code type.

\*2 This continuous operation time was tested with iPhone at default brightness setting.

\*3 Standard iPhone 1A charger is strongly recommended to be used when using Magconn cable.

\*4 iPhone and AsReader battery can be charged simultaneously.

\*5 SDK is required and available, royalty-free, for download, please contact us.

\*6 iPhone screen may be broken, depending on the drop angle and floor conditions.

\*7 An AsReader spacer-sheet is used to mount the iPod touch

\*8 Please confirm the latest information on our website.

# Use your iPhone<sup>®</sup>, iPad<sup>®</sup> & iPod touch<sup>®</sup> **As a Reader.**

AsReader<sup>®</sup>

Professional Medical Barcode Scanners  
and RAIN UHF RFID Reader/Writers

for

iPhone<sup>®</sup> 8Plus / 7Plus / 6sPlus / 6Plus

iPhone<sup>®</sup> 8 / 7 / 6s / 6

iPhone<sup>®</sup> SE / 5s / 5

iPad mini<sup>®</sup> 3 / 2 / 1

iPad<sup>®</sup> Pro 9.7 / Air2

iPod touch<sup>®</sup> 6th/5th Generation



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