

The WAVE ID® Ricoh Universal SOP Reader provides seamless, plug-and-play user authentication security for Ricoh multifunction printers.

Known for its quality and versatility, the WAVE ID Plus family of credential readers now includes a model specifically designed to snap on to Ricoh's Gen 2.5 Smart Operation Panel, providing a seamless secure print solution. The WAVE ID Ricoh Universal SOP Reader:

Offers snap-on, plug-and-play compatibility with Ricoh Gen 2.5 A3 & A4 MFP devices. Fits the following Gen 2.5 A3 & A4 MFP devices:

IM C300	IM C2500	IM C5500	IM 3000A
IM C300F	IM C2500A	IM C5500A	IM 3500
IM C400F	IM C3000	IM C5500ALT	IM 3500A
IM C400SRF	IM C3000A	IM C6000	IM 4000A
IM 550F	IM C3000LT	IM C6000LT	IM 5000A
IM 600F	IM C3500	IM C6500	IM 6000
IM 600SRF	IM C3500A	IM C8000	IM 7000
IM C2000	IM C4500	IM 2500	IM 8000
IM C2000A	IM C4500A	IM 2500A	IM 9000
IM C2000LT	IM C4500LT	IM 3000	

#### Removable hinge cover eliminates restricted tilt with A4 devices

- Seamlessly fits the A3 printer's Smart Operation Panel (Gen 2.5) side slot without impeding the device's full up and down tilt range\* for an integrated look and feel
- Includes a Secure Access Module (SAM) slot to support iCLASS® ID®/SE®/SEOS® or MIFARE® Secure Memory
- **Bluetooth®** Low Energy technology version supports Orange and WAVE ID digital/mobile credentials
- Plug-and-play with Streamline NX and 3rd party secure print software
- No external mounting required and no visible cables

#### Simple, Secure Authentication for All Ricoh MFP Users

The Smart Operation Panel is an Android-based, tablet-style control panel that enables simple yet powerful operation of Ricoh's

advanced multifunction printers. Our WAVE ID Ricoh Universal SOP Reader features a specially designed housing that snaps directly in place of the cover door for the USB port, providing a simple way to add credential-based authentication and access. By eliminating the need to manually enter PIN codes and passwords, the credential reader streamlines user workflows and improves printer security for healthcare, government, manufacturing and other enterprises.

The WAVE ID Ricoh Universal SOP Reader offers an extensive feature set. It supports four credential configurations, with two preset configurations and all four configurations user-definable. An auto-tuning of 13.56 MHz antenna ensures optimum performance in virtually any environment. The user-selectable volume control includes a beeper on/off setting—ideal for noisy locations and those where quiet is important for comfort and productivity. A Secure Access Module (SAM) slot supports iCLASS ID/SE/SEOS or MIFARE Secure Memory. The BLE reader is capable of supporting **Bluetooth** Low Energy technology for mobile credentials and enables future upgrades as organizations change their credentials.

#### The Most Versatile Reader Available

As a member of the world's most versatile family of credential readers, the WAVE ID Ricoh Universal SOP Reader supports both proximity and contactless technologies and the ever-increasing number of mobile credentials in a single reader. With the ability to hold four credential configurations, the WAVE ID Plus family is the perfect solution for growing organizations that wish to seamlessly integrate different credential technologies—now and in the future.

Able to read virtually any credential type used around the world, the WAVE ID Ricoh Universal SOP Reader is the most powerful, robust reader available for secure print applications. For simplicity, security and elegance, it's the ultimate complement to the innovative, award-winning Smart Operation Panel on Ricoh multifunction printers.



### STANDARD FEATURES

Model Series	EDP Code Europe	rf IDEAS Model & Description
	953246 953247 953248	RDR-80541AKU-RSOP WAVE ID Plus Ricoh Universal SOP Reader with Removable Hinge Cover RDR-30541BKU-RSOP WAVE ID Mobile BLE Ricoh Universal SOP Reader with Removable Hinge Cover RDR-80M41AKU-RSOP WAVE ID Plus Ricoh Universal SOP Reader with Removable Hinge Cover for MIFARE Secure memory (includes KT4FFSIM-AV2 with the reader)
		Ricoh USA SKU - KT-80041AKU-RSOP WAVE ID Ricoh Universal SOP Reader with Removable Hinge Cover + 4FF SIM, HID iCLASS® & SEOS®
	953249 953250	KT-4FFSIM-SE Nano SIM Card, HID iCLASS® & SEOS® (only usable to upgrade 953246) KT-4FFSIM-AV2 Nano SIM Card, MIFARE Secure Memory

Operating Frequency	125/132 kHz and 13.56 MHz
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Interface	USB
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### PHYSICAL CHARACTERISTICS

Weight	1.4 oz (38 g)
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Housing Color	Light gray (matches the SOP housing color and texture)
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Cables	Mini USB-B Built-in Cable (Connects to mini USB internal port)
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Cable Length	6 inches
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Indicators	LED indicator, beeper included
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Form Factors	Snap-in housing for Ricoh SOP
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Power Supply	USB powered
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Power Consumption	70 mA typical, 150 mA maximum
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### ENVIRONMENTAL

Operating Temperature Range	-22° to 150° F (-30° to 65° C)
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Operating Humidity Range	5% to 95% relative humidity, noncondensing
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Storage Temperature Range	-40° to 185° F (-40° to 85° C)
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### OTHER

Certifications <i>(Please contact rf IDEAS for information about other global certifications)</i>	FCC; Industry Canada; CE Mark; RCM; Japan. Environmental: RoHS, REACH.
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Configuration Utility	rf IDEAS Configuration Utility available on the rf IDEAS website support page
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Card Types	Supports nearly all card types worldwide. Visit rfIDEAS.com for full list of supported card types.
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WAVE ID® Ricoh Universal SOP Reader with removable hinge cover



WAVE ID® Ricoh Universal SOP Reader with hinge cover installed

\*Also fits the A4 Gen 2.5 SOP side slot, with reduced vertical tilt range.

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