

VeriSeries™

Biometric Fingerprint Readers



The VeriSeries™ line of biometric fingerprint readers by Bioscrypt™ Inc. is available in a variety of solutions to suit your access control needs.

The **V-FLEX™** reader, installed next to any Wiegand based reader, adds dual factory authentication to an existing access control system. Up to 4,500 templates can be stored in the reader.

The **V-PASS™** reader eliminates the needs for PINs, keys or cards to gain access to secure areas. This reader can hold up to 500 templates.

The **V-PROX™** reader combines fingerprint with the ability to read HID proximity cards. This reader can hold up to 4,500 templates.

The **V-Smart™** reader, available in OmniClass and Mifare-compatible versions, eliminates the need for PIN codes to gain access to secured areas. Users are verified in less than two seconds. Once a user is verified by the reader, the card data is communicated to the panel via a Wiegand connection.

The **V-Station™** reader has an 80-character LCD display and numeric keypad. The V-Station maintains and logs approximately 4096 time-stamped transactions and can store 3,550 templates on the terminal. The V-Station reader is available in five versions: base model with PIN verification, HID prox model, OmniClass/ iCLASS model, Mifare model, and an identification model with a quick search function (limited to 1500 templates in unit).

The OmniClass and Mifare-compatible versions of V-Smart and V-Station leverage the multi-application capabilities of smart card technology to protect user privacy and simplify template maintenance. With smart biometric readers, the fingerprint template is stored in the card, not in the reader. This means that the user is always in possession of their fingerprint data. The overall system can support an unlimited number of cardholders. Security personnel only need to issue and/or revoke cards or update the host software to change access privileges, eliminating the need to manually update template databases in fingerprint readers.

FEATURES

- Patented, award-winning fingerprint algorithm placed #1 at Fingerprint Verification Competition 2002 & 2004
- Industry leading fingerprint matching technology.
- Flexible communication options supporting Wiegand formats up to 64 bits.
- VeriAdmin software, included free of charge, offers a simple approach to template enrollment and reader configuration.
- Intuitive user interface with red, amber, and green LEDs and tone signals.
- Enclosure options available for outdoor installations.
- V-Smart readers and Mifare/OmniClass versions of V-Station store the cardholder templates on the card.
- V-FLEX™, V-PROX™, V-PASS™, and non-smart card versions of V-Station™ store the cardholder templates in the reader. When changes to the cardholder database occur, readers can be updated via an RS-485 network or point-to-point using VeriAdmin software.

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V-FLEX™, V-PASS™, V-PROX™ Readers SPECIFICATIONS



	V-FLEX™	V-PROX™	V-PASS™
Description	Self-contained units perform enrollment, verification and stores up to 4000 fingerprints. Installed next to any Wiegand based reader, adds dual factor authentication to an existing access control system.	The reader matches the fingerprint of the person seeking entry to the identity of the cardholder. This dual factor solution combines a self-contained fingerprint verification module and an OmniProx or HID proximity card reader.	Fingerprint identification for access control installations in a self-contained reader. The V-Pass confirms or denies access based on an internal database of fingerprints of authorized users.
Dimensions	5.12" H x 1.97" W x 2.5" D (130mm H x 50mm W x 65.5mm D)		
Max. Read Range¹	N/A	3.0" (7.6cm)	N/A
Cable Distance to Host (Wiegand)	500' (152m) max		
Compatible Cards	N/A	HID proximity	Not supported
Number of Templates	4500 per unit	4500 per unit	Optimized for 300 per unit; 500 maximum capacity
Template Size	350 bytes		2500 bytes
Enrollment Time	< 3 seconds		
Equal Error Rate (EER)	0.1%		N/A
False Acceptance Rate	Adjustable		Fixed
False Rejection Rate	Adjustable		0.1%
Custom Features	Sound On/Off, external LED control (tri-color red/yellow/green)		
Verification Time	< 1 second		< 2 seconds
Regulatory Approvals	UL/CUL, FCC, CE, Canada Radio		
Operating Temperature	32 – 140° F (0 – 60° C)		
Operating Humidity	10 – 90% relative humidity		
Operating Voltage Range	7 – 24 VDC		
Current (@ 12VDC)	0.15A avg; 0.25A peak		
Communications	Pigtail wire connection for RS-232 RS-485 and Wiegand IN/OUT; RJ11 auxiliary port for RS-232		
Output Interfaces	Wiegand		
Warranty²	1 year		

¹ Actual operating distance will vary depending upon installation environment and proximity to metal.

² See Honeywell Access Systems' Sales Policy for complete warranty details.

V-Smart™ Contactless Smart Card Readers SPECIFICATIONS



	BVSMARTI OmniClass-Compatible	BVSMART Mifare Technology
Description	The reader matches the fingerprint of the person seeking entry to the identity of the cardholder as stored on the OmniClass/iCLASS card.	The reader matches the fingerprint of the person seeking entry to the identity of the cardholder as stored on the Mifare card.
Dimensions	5.12" H x 4.65" W x 2.5" D (130mm H x 118mm W x 63.5mm D)	
Max. Read Range¹	2.5" (6.3cm)	2.0" (5cm)
Cable Distance to Host (Wiegand)	500' (152m) max	
Compatible Cards	OmniClass and iCLASS, 16K-bit and larger	MIFare supports GemEasy 8000, HID 1430 and HID 1431 (request HID cards unprogrammed on the MIFARE® side), iDentiSMART Series by iDenticard cards.
Number of Templates	Unlimited	
Template Size	350 bytes	
Enrollment Time	< 5 seconds	
Equal Error Rate (EER)	0.1%	
False Acceptance Rate	Adjustable	
False Rejection Rate	Adjustable	
Custom Features	Sound On/Off, external LED control (tri-color red/yellow/green)	
Verification Time	< 2 seconds	
Regulatory Approvals	UL/cUL, FCC, CE, Canada Radio	
Operating Temperature	32 – 140° F (0 – 60° C)	
Operating Humidity	10 – 90% relative humidity	
Operating Voltage Range	9 – 12 VDC	
Current (@12 VDC)	0.20A avg; 0.50A peak	
Communications	Pigtail wire connection for RS-485 and Wiegand IN/OUT; RJ11 auxiliary port for RS-232	
Output Interfaces	Wiegand	
Warranty²	1 year	

¹ Actual operating distance will vary depending upon installation environment and proximity to metal.

² See Honeywell Access Systems' Sales Policy for complete warranty details.

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V-Station™ Reader Terminal SPECIFICATIONS



	VSTATNA	BVSTATNAS	BVSTATNAP	BVSTATNAH	BVSTATNAG
Description	The reader matches the fingerprint of the person seeking entry to the stored template based upon a PIN entered by the person.	The reader automatically attempts to match the fingerprint of the person seeking entry to a stored template.	The reader matches the fingerprint of the person seeking entry to a stored fingerprint template based upon the identity of the cardholder	The reader matches the fingerprint of the person seeking entry to the identity of the cardholder as stored on the OmniClass/iCLASS card.	The reader matches the fingerprint of the person seeking entry to the identity of the cardholder as stored on the Mifare card.
Dimensions	5.63" H x 6.63" W x 2.63" D (14.3cm H x 16.8cm W x 6.7cm D)				
Max. Read Range¹	N/A	N/A	3.0" (7.6cm)	2.5" (6.3cm)	2.0" (5cm)
Cable Distance to Host (Wiegand)	500' (152m) max				
Compatible Cards	N/A	N/A	HID proximity cards	OmniClass and iCLASS, 16K-bit and larger	MIFare supports GemEasy 8000, HID 1430 and HID 1431 (request HID cards unprogrammed on the MIFARE® side), iDentiSMART Series by iDenticard cards.
Number of Templates	3550	500 (optimized for 300)	3550	Unlimited	Unlimited
Template Size	350 bytes		2500 bytes	350 bytes	
Enrollment Time	< 5 seconds				
Equal Error Rate (EER)	0.1%				
False Acceptance Rate	0.2%				
False Rejection Rate	1.0%				
Custom Features	Sound On/Off, external LED control (tri-color red/yellow/green)				
Verification Time	< 1 seconds				
Regulatory Approvals	UL/CUL, FCC, CE, Canada Radio				
Operating Temperature	32 – 140° F (0 – 60° C)				
Operating Humidity	10 – 90% relative humidity				
Operating Voltage Range	12.5 – 24 VDC				
Current (@12 VDC)	0.5A avg; 1.0A peak				
Communications	Wiegand IN/OUT; RJ11 for RS-232 and RS-232 auxiliary port; RJ45 for RS-485 and Ethernet				
Output Interfaces	Wiegand				
Warranty²	1 year				

¹ Actual operating distance will vary depending upon installation environment and proximity to metal.
² See Honeywell Access Systems' Sales Policy for complete warranty details.

MOUNTING SPECIFICATIONS

V-FLEX™, V-PASS™, V-PROX™ Readers

Flat surface, single gang or mullion mountable. Wall-mount plate will accept #6 screws or bolts. Clearance hole diameter is 0.155" Trim plate included to cover single gang box.



V-Smart™ Contactless Smart Card Readers

Flat surface, single gang or mullion mountable. Wall-mount plate will accept #6 screws or bolts. Clearance hole diameter is 0.155" Trim plate included to cover single gang box.

V-Station Reader Terminal

Triple-gang or dry wall mountable. Wall-mount plate will accept #6 screws or bolts. Clearance hole diameter is 0.155"



Honeywell is a preferred partner of Bioscrypt.

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ORDERING

Order #	Description	Order #	Description
V-FLEX™, V-PASS™, V-PROX™ Readers		V-Station Reader Terminal	
BV-VPROX	Fingerprint Reader with HID Prox Reader, 4,500 Templates, includes software	BVVSTATNA	V-Station Base Model storing up to 3,550 Templates and Verification to Template Matching PIN
BVVFLEX	Add-on Fingerprint Reader for any Wiegand Reader	BVVSTATNAS	V-Station Model storing up to 500 Templates and Auto Verification to any Matching Template
BVVPASS	Fingerprint Reader, 4,500 Templates	BVVSTATNAP	V-Station Model storing up to 3,550 Template and Built-in HID Prox Card Reader
BVVENCL	Outdoor Enclosure* for V-PROX™, V-FLEX™, V-PASS™	BVVSTATNAH	V-Station Model with Built-in OmniClass/iCLASS Reader and Templates Stored on Smart Card
BVVENCHT	Outdoor Enclosure* with Heater for V-PROX™, V-FLEX™, V-PASS™	BVVSTATNAG	V-Station Model with Built-in Mifare Reader and Templates Stored on Smart Card
BVVENCW	Outdoor Enclosure* with Window for V-PROX™, V-FLEX™, V-PASS™	BVVNENC	V-Station Outdoor Enclosure*
BVVENCWHT	Outdoor Enclosure* with Window and Heater for V-PROX™, V-FLEX™, V-PASS™	BVVNENCHT	V-Station Outdoor Enclosure* with Heater
BVVSERIESCN	VeriSeries Converter, RS-232 to RS-485	BVVNENCW	V-Station Outdoor Enclosure* with Window
BVVSERIESPWR	12V Power Supply for VeriSeries Readers	BVVNENCWHT	V-Station Outdoor Enclosure* with Window and Heater
* Dimensions: 11.5" H x 8.07" W x 5.5" D (29.2 cm H x 20.5 cm W x 14.0 cm D). Lid lifts up and is 11.25" H x 9.25" W (28.6 cm H x 23.5 cm W).		* Dimensions: 11.5" H x 9.25" W x 5.5" D (29.2cm H x 23.5cm W x 14.0cm D). Lid lifts up and is 11.25" H x 9.25" W (28.6cm H x 23.5 cm W).	
V-Smart™ Contactless Smart Card Readers			
BVVSMMARTI	V-Smart™ with OmniClass/HID iCLASS 13.56MHz Reader		
BVDESKVTI	BVVSMMARTI Reader Mounted on a Plastic Stand with Power Supply		
BVDEMOVTI	BVVSMMARTI Reader Mounted on a Plastic Stand with Power Supply, Case, and Five iCLASS Cards		
BVVSMMART	V-Smart™ with Mifare 13.56MHz Reader		
BV-DEMOVT	BVVSMMART Reader Mounted on a Plastic Stand with Power Supply, Case, and Five Mifare Cards		
BVVTENCW	V-Smart™ Outdoor Enclosure* with Window		
* Dimensions: 11.5" H x 8.07" W x 5.5" D (29.2cm H x 20.5cm W x 14.0cm D). Lid lifts up and is 11.25" H x 9.25" W (28.6cm H x 23.5 cm W).			

HID is a registered trademark of HID corporation.
V-FLEX, V-PASS, V-PROX are trademarks of Bioscrypt, Inc.

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