



Frequently Asked Questions

What's New

1. What new scanners are certified in version 4.0?

- Canon DR-7080C
- Fujitsu fi-4010CU
- Fujitsu fi-4120C2
- Fujitsu fi-4220C2
- Fujitsu fi-5110C
- Fujitsu fi-5650C
- Kodak i30
- Kodak i40
- Panasonic KV-S3065CW

For a list of all certified scanners please check www.kofax.com/configurator

2. What Operating Systems are supported in version 4.0?

- Microsoft Windows 2000
- Windows XP (Professional Versions)

3. What are the new features in version 4.0?

- Automatic detection and processing of color documents
- Switching to color based on the detection of color content or objects (like photos)
- Automatic Color Saturation
- Automatic rotation of images based on content
- Blank page deletion
- White background cropping and deskew
- New UI
- New Licensing

4. How has the licensing changed?

VRS Plus is now software activated and no longer includes a dongle or hardware key as part of the standard product. The license activation information is included on a sheet inside the box marked “License Code-Do Not Destroy”. This information will be necessary during the installation to properly license VRS 4 Plus.

VRS Plus includes the following features:

- Automatic Color Detection
- Color Saturation
- Blank Page Deletion
- White Background Cropping and Deskew

5. How does software activation work?

Activating VRS requires an internet connection. The easiest way to complete activation is to have an internet connection available on the PC VRS 4 Plus is installed on. When installing VRS 4 Plus the “Activate VRS” dialog will appear. You then enter the VRS part number, serial number, and product code. When “Activate” is selected the internet connection will communicate and verify the data entered and complete the activation process.

6. What if my scan station does not have an internet connection?

The same information can be entered from any PC with an internet connection and then associated with the PC with the VRS 4 Plus installation. If no internet connection is available you also can fax a Request for Activation. For more information please see the “VRS Installation Guide”.

7. What if I need to move my installation to a new or different PC?

The same website can be used to deactivate VRS, once deactivation is completed you are able to activate again on a new PC.

8. How do I upgrade to VRS 4.0?

There are two upgrade paths from VRS 3.x to VRS 4.0. You can download an upgrade from the VRS product page at www.kofax.com. This is a free upgrade that does not include the new “Plus” features, but does provide the new User Interface and bug fixes.

To upgrade from VRS 3.x to VRS 4.0 Plus you will need to purchase the software via part number UP-0001-0004.

9. Will the upgrade work on my existing hardware assisted VRS installation?

Yes. The upgrade will work on any VRS 3.0 or later hardware-assisted VRS installation. The Plus features however are not hardware-assisted and will use PC processing. With the exception of the Böwe Bell+Howell Spectrum scanners (version VRS 3.5) where the color processing features are hardware assisted.

10. What types of applications are supported by VRS version 4.0?

VRS 4.0 supports all ImageControls-, ISIS-, and TWAIN-based applications. VRS is certified for use with wide range of ImageControls-developed applications including Kofax Ascent Capture. VRS 4.0 has also been tested and certified with the following ISIS & TWAIN applications:

- ABBYY FineReader Professional
- ABBYY FormReader 6.0
- Adobe Acrobat Capture 3.0
- Adobe Acrobat 5.0
- Cardiff TELEform versions 7.0, 8.0, & 9.0
- Compulink LaserFiche
- Digitech Systems PaperFlow
- DocuXplorer Personal and Professional
- DocuWare 4.6
- Easy Software EASYWARE
- ELO Digital Office ELOoffice
- FileVision's FileVision
- Fujitsu ScandAll 21
- Imaging for Windows (Standard and Professional)
- IBM IWPM for Windows 2000
- IMR Alchemy 7.3 Build 923, 7.4 Build 1043, 7.6 Build 225
- INVU Services Ltd. INVU Series 100
- IPRO Tech Scan-IT
- Metafile Information Systems, Inc. Meta Viewer Enterprise
- Pixel Translations PixView
- Pixel Translations PixTools
- Pixel Translations QuickScan Pro
- ScanSoft OmniPage Pro
- ScanSoft Textbridge
- ScanSoft PaperPort Deluxe 8.0 & 9.0
- Smead Intrieva

If you don't find your ISIS or TWAIN scan application on this list, it should still work. If you experience any issues with your application, or are interested in having an application certified please contact us at info@kofax.com.

11. Is Version 4.0 a hardware or software product?

Both. Whether VRS hardware or software VRS is recommend depends on the specific scanner. Please review the list contained in Appendix A of this document for the scanner list. Hardware VRS scanners contain “Kofax” in the driver column. If the driver listed is ISIS or TWAIN, the scanner is supported by software VRS.

Version 4.0 supports both hardware and software scanner configurations. Except for the Böwe Bell+Howell 8000 series scanners, the new VRS 4.0 Plus features are software based and are not assisted by any pre-existing VRS hardware installations.

12. What additional languages is VRS 4.0 translated into?

Including the default language of English, VRS 4.0 will automatically switch to one of the following languages based upon the language of the Windows Operating System used while the VRS installation is run:

- German
- French
- Italian
- Spanish
- Japanese

13. Are Administrative Privileges required for VRS 4.0?

No. You no longer have to be an Administrator or have Administrator privileges in order to run VRS 4.0 under standard default Windows user permissions. However, you DO need to have Administrator privileges in order to install VRS 4.0. Administration privileges are also required for scanner component installers as well.

14. Does VRS version 4.0 require an Adrenaline SCSI controller?

That depends. For any scanner which uses a hardware assisted VRS solution, an Adrenaline board is required and included in the bundle. For all other categories of VRS, the Adrenaline board is optional, but highly recommended for the best overall VRS experience. For additional information on performance and configurations please check the VRS product pages at www.kofax.com.

15. I can purchase VRS Plus for Workgroup Scanning or VRS Plus for Production Scanning for SCSI or USB. How do I know which one to select?

When you purchase a new VRS Plus part number for SCSI scanning an Adrenaline board is included. When you purchase a new VRS Plus part number for USB or Firewire scanning the AIPE and EBC features are included.

16. I have a scanner certified by Kofax and recommended as a VRS Plus for Desktop Scanning, but I would like a 650i or I require AIPE or EBC what should I do?

To get this functionality purchase a VRS Plus for Workgroup scanning license. The highest category assumes the functionality and certification of all lower categories.

17. Are there any optional hardware components needed for VRS to work?

Any of the required image processing hardware for the scanner is already incorporated in the scanner. VRS 4.0 is available with and without Adrenaline hardware. It is highly recommended that you use a VRS-certified Adrenaline 450, 650, or 650i board for your VRS document imaging solution.

18. Does VRS version 4.0 support USB and Firewire Scanners?

Yes. Please consult the list of certified scanners in Appendix A.

19. Does VRS version 4.0 support non-Kofax SCSI controllers?

Yes. For a list of the current generic SCSI controllers Kofax has certified please see the VRS product page of www.kofax.com. However, using an Adrenaline board will often improve scanning throughput because they are designed for scanning, while Adaptec or other non-Kofax SCSI boards are not. Because other SCSI boards are intended to be used with CD-ROMs, DVDs, and hard disk drives, they use small blocks of memory to transfer the data from the device to the host. When the larger image data generated by scanners is transferred through non-Kofax SCSI boards it takes longer and, as a result, the scanner's throughput is reduced. Adrenaline boards are designed to handle this larger amount of data and can, therefore, allow scanners to run at their rated speed.

20. Can I use VRS 4.0 with an Adrenaline 850S board?

No we do not support the Adrenaline 850S, 850v, 1700s or 1700v with VRS 4.0

AIPE version 4.0

21. What advanced Image Processing is included with the VRS Plus Workgroup and VRS Plus Production VRS Solutions?

For these licenses include Enhanced Barcode Engine (EBC), patch code detection engine, and a range of Image Enhancement Filters. For USB and Firewire scanners, the software activation process enables these features.

22. What is the difference between VRS with and without AIPE?

While VRS provides world-class thresholding, cropping, and deskew, AIPE (or the Adrenaline Image Processing Engine) is a Kofax software product that adds a range of functions to your ImageControls scan application. AIPE software includes the Enhanced Bar Code engine, Patch Code detection, which support any image type (Bitonal, Grayscale or Color). For black and white image processing AIPE provides Forms Recognition, On-the-Fly Rotation, Line Removal, and a range of Image Enhancement Filters. AIPE is also a solution for stored images of any format, color, grayscale or bitonal. VRS is scan time productivity tool.

23. I have VRS with AIPE. I have noticed that the Adrenaline Image Processing Engine also has crop and deskew functions. Should I use crop and deskew in VRS or in the Adrenaline Image Processing Engine?

Always use crop and deskew in VRS and disable crop and deskew in the Adrenaline Image Processing Engine. VRS performs crop and deskew on the grayscale image; the Adrenaline Image Processing Engine performs these functions on the binary black and white image. VRS' grayscale image processing is far superior and produces sharper, more accurate, and more compact images than any binary image processing.

24. What scanners are supported in version 4.0?

VRS 4.0 supports over 60 certified scanners.(See the list in Appendix A for more details).

25. There are so many scanners now certified with version 4.0, can Kofax help me make the right choice?

VRS dramatically improves productivity of any document or data capture solution and optimizes the image quality of all certified scanners and makes it possible to scan a wider range of documents without tuning any settings. Which VRS-certified scanner is appropriate is influenced by a number of factors, such as speed of the scanner, need for simplex or duplex, dimensions of the scanner, flatbed or ADF, price range, etc. Please review the list of certified scanners in Appendix A of this document. In addition, you can check out www.kofax.com/partners for links to scanner manufacturers' websites to help you make your choice.

26. I just installed VRS and now I want to use it with another scanner. How do I switch scanners?

Just run the VRS installation program again and select the scanner you want to add. The installer automatically defines the ideal VRS default values for the selected scanner. Do this any time you want to add another VRS scanner to your system.

Once you have installed VRS for each of the scanners you intend to use, you can use the Restore Default Values utility (RDV) to easily switch between scanners. The RDV installation is copied to the hard disk

when VRS is installed. Simply refer to the VRS Users Guide for information on locating the installation files for RDV and installing it.

27. Will Kofax add more scanner models to the list of certified scanners?

Yes. However, be aware that VRS can only function with scanners that output color or gray images. If a scanner can only output black and white images, it will never work with VRS. We are continuously working on expanding the number of VRS-certified scanners by monitoring this segment of the market. Please check the VRS product pages at www.kofax.com for any newly certified scanners.

28. I'm using a non-certified scanner with VRS, and I don't get the image quality that I expect from VRS. Can I call for support?

We only offer technical support on Kofax certified scanners and configurations. Kofax has a strenuous certification program that extensively tests VRS and the scanner with all supported Windows operating systems.

If an uncertified scanner is configured Kofax technical support will only be able to assist you with installation questions and configuring a VRS source.

Features

29. Where can I find more information on how to use the VRS interactive sliders as well as other features and settings to adjust my images?

The VRS User's Manual provides instructions and descriptions for all the powerful VRS features and functions. Kofax also offers VRS training sessions via the internet regularly. These VRS Webinars provide in-depth explanations on how to use and get the most out of VRS. You can find more information on these Webinars at: <http://www.kofax.com/events/webinar/index.asp#vrs>

Applications

30. How do I know whether my ISIS or TWAIN application will work with VRS? Is there a list of certified applications?

Yes. See question 5 above.

31. My application does not work with VRS. What do I do?

Please contact Kofax Technical Support at 949-727-1733 (selection 6 from the menu) or send an e-mail to support@kofax.com. Please have the following information available:

- Application name
- Version number
- Vendor name

- Windows Version (2000 or XP)

Kofax is continuing to increase the number of applications in its certification list and we welcome recommendations.

32. Does my scanning application need to be updated to work with VRS?

No. VRS was specifically designed so that no ISV (Independent Software Vendor) would be forced to make changes to their scanning applications. After installation, VRS appears as another scanner in the scanner selection window of our application. However, some of the older scanning applications were written before color scanning was possible. You may find your scan application cannot support the Automatic Color Detection capabilities of VRS 4.0. Please check our Knowledge base for updates on these issues, as well as the contact your application provider regarding any potential limitations.

33. How do I get VRS to work with my scanning application?

Setting up VRS is easy. With your scanning program already installed on your PC, install VRS. The VRS installer will ask you to select the scanner you want to use. Once VRS software has been installed, launch your scanning software as usual. When selecting the scanner you would like to use from within an ImageControls scan application, you will see a scanner source entitled “[Your Scanner Model] with VRS.” VRS is activated as soon as you select this scanning source. For ISIS or TWAIN scan applications select the “Kofax VRS Scanner” or “Kofax Software VRS – TWAIN” scan source in your application’s scanner selection window.

34. How can I get programmatic control of VRS in my application?

Currently, this capability is not available.

Performance

35. How fast will VRS run my scanner? Will VRS slow down my scanner?

For scanning black and white images VRS switches the scanner to grayscale mode. VRS then analyzes and processes the grayscale image before it is converted to a black and white image. Some scanners slow down when used in grayscale mode.

For scanning in color VRS requires uncompressed color images. Some scanners speeds are rated for compressed image scanning. Some scanners slow down when delivering uncompressed images. Since a Software VRS configuration uses the PC to perform image processing, the speed of the PC’s processor and the amount of memory also influence the throughput. All certified VRS scanners are tested for maximum speed. See Appendix A for more details.

General VRS

36. Why doesn't VRS work with B/W only scanners?

Because VRS requires the grayscale image to perform its industry-leading image processing, VRS can only support scanners producing grayscale or color.

37. Can I install VRS 4.0 with other versions of VRS?

It depends. You can install 4.0 over previous version of Software VRS 3.05, 3.07, 3.1, 3.5 or 3.5a. If you are upgrading from older versions of VRS (2.0, 2.1, or 3.0) you should uninstall the current version before installing VRS 3.5. Refer to the VRS Installation Guide for information on uninstalling VRS or contact Kofax Technical Support (at 949-727-1733 or support@kofax.com).

If you would like to upgrade please go to <http://www.kofax.com/products/virtualrescan/> to download VRS 4.0 or you can contact your reseller for an upgrade to VRS Plus. An upgrade kit can be purchased by ordering part number UP-2000-0000. Unfortunately, VRS 4.0 cannot be installed on the same PC that has earlier VRS 1.0 versions installed.

38. Does my scanner need to produce a black background for VRS' deskew to work? How do I know if my scanner is white or black background?

No. VRS does not require a black background in order to deskew an image. VRS is capable of deskewing an image based on content regardless of the scanner background.

You can check the VRS product pages at www.kofax.com to for information on the background of your scanner. If you are using a VRS certified scanner Kofax has created specific settings for each scanner that match the background of the scanner and create the best possible image from the scanner. These settings are in use automatically when you select a VRS certified scanner during installation.

40. Does my scanner need to produce a black background for VRS' autcrop and border removal to work?

No. VRS 4 Plus crops, deskews and removes borders from images created with black or white background scanners. Sometimes a white back ground scanner creates an image where the color of the image is the same as the background of the scanner. When this occurs VRS 4 Plus can determine the edge of the document by assessing the content.

41. Does VRS support grayscale and color scanning?

Yes. VRS does support grayscale and color scanning. The throughput speed depends on the speed of the scanner you use and the type of image it outputs. VRS requires uncompressed images, if your scanner creates jpg compressed images by default, VRS will ask for uncompressed images which may not match the color rated speed of the scanner

42. Does VRS do any image processing when scanning in grayscale or color?

Yes. VRS can perform color and grayscale deskew and crop. You can also use VRS' unique interactive interface to adjust color and grayscale brightness and contrast. Just as in Black and White mode, VRS updates the color and grayscale image in real time, while adjusting the brightness and contrast sliders. However, any filters or sliders in the noise tab are inactive when scanning in color or grayscale. These filters are reserved for black and white scanning only. VRS 4 Plus can automatically detect color images or black and white images in a mixed batch and output the correct image type. VRS 4 Plus Color Saturation detects the uniform or true color background of a color image and saturates to it, providing a higher quality image visually with a smaller file size. VRS 4 automatic orientation and blank page deletion are also available for color scanning.

Demo Version**43. Is there a demo version of VRS?**

Yes, you can run a demo version of VRS Desktop and Workgroup category scanners. In demo mode, VRS randomly stamps a Kofax logo on various images.

44. When I install VRS, a program called VRS Scan Demo is also installed. Can I use this application for production scanning as well?

No. The VRS Demo program is, as the name indicates, software to demonstrate the capabilities of VRS (both Hardware VRS and VRS). VRS Scan Demo is limited to 1 document with a maximum of 100 images. When you exceed 100 images, the software prompts you to delete images to continue scanning. For details on how the VRS demo software works, please refer to the VRS Scan Demo Quick Reference bundled with every VRS. For a production version, please contact us at vrs@kofax.com.

45. I have comments on the VRS product, or I'd like to ask some questions about future releases of VRS, share ideas, or talk about a good reference site. Who should I talk to?

Please send your comments and questions to info@kofax.com





Appendix A - Scanner Certification List and Performance

Scanner	Driver	Category	Border Color	Supported Interfaces	Simplex Speed	Duplex Speed
Böwe Bell & Howell 730DC FB	ISIS	Workgroup	White	SCSI	15 ipm	8 ipm
Böwe Bell & Howell 8080SC	Kofax	Production	Black	SCSI	80 ipm	N/A
Böwe Bell & Howell 8080DC	Kofax	Production	Black	SCSI	80 ipm	160 ipm
Böwe Bell & Howell 8100DC	Kofax	Production	Black	SCSI	100 ipm	200 ipm
Böwe Bell & Howell 8125DC	Kofax	Production	Black	SCSI	125 ipm	250 ipm
Böwe Bell & Howell 8080SB	Kofax	Production	Black	SCSI	80 ipm	N/A
Böwe Bell & Howell 8080DB	Kofax	Production	Black	SCSI	80 ipm	160 ipm
Böwe Bell & Howell 8100DB	Kofax	Production	Black	SCSI	100 ipm	200 ipm
Böwe Bell & Howell 8125DB	Kofax	Production	Black	SCSI	125 ipm	250 ipm
Böwe Bell & Howell SideKick 1200 Ω	ISIS	OEM (3.11.03)	Black	SCSI, USB	24 ipm	42 ipm
Böwe Bell & Howell SideKick 1400 Ω	ISIS	OEM (3.11.03)	Black	SCSI, USB	42 ipm	75 ipm
Canon DR-2080C	ISIS	Desktop	Black	SCSI	21 ipm	43 ipm
Canon DR-3060	ISIS	Workgroup	Black	SCSI	32 ipm	64 ipm
Canon DR-3080C	ISIS	Workgroup	Black	SCSI	32 ipm	64 ipm
Canon DR-6080	ISIS	Workgroup	Black	SCSI, USB	66 ipm	92 ipm
Canon DR-7080C	ISIS	Workgroup	Black	SCSI, USB	73 ipm	39 ipm
Canon DR-9080C ■	ISIS	Production	Black	SCSI, USB	88 ipm	108 ipm
Epson GT 30000	ISIS	Workgroup	White	SCSI	33 ipm	22 ipm
Fujitsu fi-4010CU	TWAIN	Desktop	White	USB	10 ipm	N/A
Fujitsu fi-4120C	ISIS	Desktop	White	SCSI, USB	28 ipm (SCSI) 15 ipm (USB)	28 ipm (SCSI) 15 ipm (USB)
Fujitsu fi-4120C2	ISIS	Desktop	Black	SCSI, USB	26 ppm	52 ipm
Fujitsu fi-4220C	ISIS	Desktop	White	SCSI, USB	28 ipm (SCSI) 15 ipm (USB)	28 ipm (SCSI) 15 ipm (USB)
Fujitsu fi-4220C2	ISIS	Desktop	Black	SCSI, USB	26 ppm	52 ipm
Fujitsu fi-4340C	ISIS	Workgroup	Black	SCSI	40 ipm	60 ipm
Fujitsu fi-4530C	ISIS	Workgroup	Black	SCSI, USB	35 ipm	35 ipm

Scanner	Driver	Category	Border Color	Supported Interfaces	Simplex Speed	Duplex Speed
Fujitsu fi-4640S	ISIS	Workgroup	Black	SCSI	44 ipm	N/A
Fujitsu fi-4750C (Software Only)	ISIS	Workgroup	Black	SCSI	50 ipm	54 ipm
Fujitsu fi-4750C (GSA Hardware Assisted)	Kofax	Production	Black	SCSI	50 ipm	90 ipm
Fujitsu fi-4750L	Kofax	Production	Black	SCSI	55 ipm	100 ipm
Fujitsu fi-4860C	Kofax	Production	Black	SCSI	63 ipm	125 ipm
Fujitsu fi-4990C	Kofax	Production	Black	SCSI	90 ipm	180 ipm
Fujitsu fi-5110C	ISIS	Desktop	White	USB	17 ipm	35 ipm
Fujitsu fi-5650C	ISIS	Workgroup	Black	SCSI, USB	56 ipm	108 ipm
Fujitsu fi-5750C	ISIS	Workgroup	Black	SCSI, USB	56 ipm	108 ipm
Fujitsu M4097D	Kofax	Production	Black	SCSI	50 ipm	90 ipm
Fujitsu M4099D	Kofax	Production	Black	SCSI	90 ipm	180 ipm
HP ScanJet 8290C Ω	ISIS	OEM (3.02)	White	SCSI, USB	25 ipm	6 ipm
Kodak i30	ISIS	Desktop	White	USB	28 ipm	N/A
Kodak i40	ISIS	Desktop	White	USB	28 ipm	48 ipm
Kodak i50	ISIS	Desktop	White	SCSI	12 ipm	N/A
Kodak i60	ISIS	Desktop	White	SCSI	18 ipm	25 ipm
Kodak i80	ISIS	Desktop	Black	SCSI	29 ipm	39 ipm
Kodak i250	ISIS	Workgroup	Black	Firewire	50 ipm	N/A
Kodak i260	ISIS	Workgroup	Black	Firewire	50 ipm	100 ipm
Kodak i280 ■	ISIS	Workgroup	Black	Firewire	62 ipm	124 ipm
Kodak i620 ■	TWAIN	Production	Black	Firewire	80 ipm	160 ipm
Kodak i640 ■	TWAIN	Production	Black	Firewire	100 ipm	200 ipm
Kodak i660 ■	TWAIN	Production	Black	Firewire	120 ipm	240 ipm
Panasonic KV-S2025C	ISIS	Workgroup	Black	SCSI	24 ipm	42 ipm
Panasonic KV-S2026C	ISIS	Workgroup	Black	SCSI, USB	24 ipm	42 ipm
Panasonic KV-S2045C	ISIS	Workgroup	Black	SCSI	42 ipm	75 ipm
Panasonic KV-S2046C	ISIS	Workgroup	Black	SCSI, USB	42 ipm	75 ipm
Panasonic KV-S2065W	ISIS	Workgroup	Black	SCSI	64 ipm	72 ipm
Panasonic KV-S3065C	ISIS	Workgroup	Black	SCSI, USB	65 ipm	112 ipm

Scanner	Driver	Category	Border Color	Supported Interfaces	Simplex Speed	Duplex Speed
Panasonic KV-S6050W	ISIS	Workgroup	Black	SCSI	59 ipm	N/A
Panasonic KV-S6055W	ISIS	Workgroup	Black	SCSI	63 ipm	66 ipm
Panasonic KV-S7065C	ISIS	Workgroup	Black	SCSI, USB	58 ipm	112 ipm
Ricoh IS-01	ISIS	Workgroup	Black	SCSI	12 ipm	N/A
Ricoh IS-330	ISIS	Workgroup	White	SCSI	15 ipm	8 ipm
Visioneer 9650 USB	ISIS	Desktop	White	USB	9 ipm	N/A
Visioneer 9650i	ISIS	Desktop	White	USB	9 ipm	N/A
Visioneer Strobe XP200 Ω	ISIS	OEM (2.12)	Black	USB	6 ipm	N/A
Xerox DocuMate 250 Ω	ISIS	OEM (2.12)	White	USB	18 ipm	N/A
Xerox DocuMate 252 Ω	ISIS	OEM (2.12)	White	USB	25 ipm	37 ipm
Xerox DocuMate 262 Ω	ISIS	OEM (3.5A)	White	USB	28 ipm	46 ipm
Xerox DocuMate 520 Ω	ISIS	OEM (2.12)	White	USB	18 ipm	N/A

Notes:

-  Tests were performed with the following configuration:
 - o P-IV 1.4 GHz with 512MB RAM
 - o 200 DPI
 - o Duplex (if available)
 - o Letter size
 - o Landscape & 90/270 Rotation (if available)
 - o Prescans = 6
 - o Interface: Kofax Adrenaline 450, 650, 650i, USB, or Firewire
-  **N/A** – Not Applicable
-  ■ – The throughput for these scanners were obtained using the following configuration:
 - o P-IV 2.8 GHz with 512 MB RAM
 - o 200 DPI
 - o Letter Size
 - o Landscape Orientation
 - o Prescans = 6
-  Ω – These scanners ship with an OEM version of VRS. No additional purchase is required. The version of VRS included with the scanner is indicated in the Category column. Any OEM VRS version 3.x or higher is functionally equivalent to VRS 3.5.