



HARDWARE CONFIGURATION GUIDE

Updated July 29, 2026 • RVI 9.0 Release or Greater (Minimum OS/400 Release Level – V7R3)



RVI 10 is currently in development. No release date has been announced; this guide will be updated once details are available.

RVI SCANNING COMPATIBILITY: TWAIN AND TUNGSTEN (KOFAX) VRS

Scanners with a TWAIN driver or Tungsten (Kofax) VRS-compatible scanners will work for scanning in RVI. If you need barcode recognition, though, the scanner must be used with a Tungsten (Kofax) VRS/AIPE license — TWAIN alone does not support barcode reading or the other VRS-specific image cleanup features. See the TWAIN Scanner Support section later in this guide for more on scanning without VRS.



VRS itself is the base image cleanup software — it sharpens and cleans up scanned images and is great for OCR scanning, shaded or colored documents, non-original carbon copies, or any documents in less-than-perfect condition. The Adrenaline Image Processing Engine (AIPE), included with VRS Elite Workgroup or Production, is a built-in processing engine that adds barcode recognition and other capabilities on top of the base cleanup features.

VRS may reduce the scanner's rated pages-per-minute (PPM) volume. VRS switches the scanner to grayscale mode for analysis and processing before converting the image to black and white. VRS offers real-time cleanup of images that do not meet preset scanning requirements, reducing the time needed to correct poor-quality scanned documents. VRS can be enabled or disabled as desired based on the quality of the paper being scanned, on most scanners.

Historical note: Kofax's software line has been rebranded to Tungsten Automation since 2022.

Tungsten (Kofax) Scanning Solutions with VRS

Complete listing of Tungsten VRS certified scanners:

[Tungsten Scanner Configurator](#)

Scanning Station PC Requirements

- Windows 10 or Windows 11
- Check with Tungsten and your scanner manufacturer for current ISIS/TWAIN drivers and programs

TUNGSTEN (KOFAX) SCANNING SOLUTIONS

For specific USB interface scanners, Tungsten offers VRS software. VRS is not limited to lower-speed scanners — some scanners can operate well above 100 PPM with hardware-enabled VRS (also called Hardware VRS or HVRS), where VRS processing happens on the scanner itself rather than the PC.

Tier	Typical scanner range	What's included
VRS Elite Desktop	40–60 PPM	Standard image cleanup (crop, deskew, brightness, etc.) plus AIPE with standard barcode recognition
VRS Elite Workgroup	60–90 PPM	Everything in Desktop, plus Enhanced Barcode (EBC) recognition for 2D and more complex barcodes
VRS Elite Production	90 PPM and above	Full feature set including AIPE and EBC. Production-level licensing does not operate in demo mode

Refer to the Tungsten VRS Product Table near the end of this guide for current suggested pricing.

SELECTING A SCANNER FOR RVI

1. Decide whether you need TWAIN or Tungsten (Kofax) VRS

- TWAIN — works for straightforward scanning with no barcode reading or VRS-specific image cleanup needed. No Tungsten/Kofax software or license required. See the TWAIN Scanner Support section earlier in this guide.
- Tungsten (Kofax) VRS/AIPE — needed if you require barcode recognition, or want VRS's image cleanup features (auto crop, deskew, brightness correction, etc.). Which VRS tier you need depends on the scanner's rated speed — see below.

2. If using VRS, determine the type of scanner

- Desktop — scanner rated 40–60 PPM or below (requires VRS Elite Desktop; upgrade to Workgroup if Enhanced Barcode is needed)
- Workgroup — scanner rated roughly 60–90 PPM (requires VRS Elite Workgroup)
- Production — scanner rated 90 PPM and above (requires VRS Elite Production)

3. Tungsten VRS Elite software definitions

- Desktop — image cleanup software, includes AIPE for standard barcode scanning
- Workgroup — image cleanup software, standard barcode scanning, plus Enhanced Barcode (EBC) scanning for 2D barcodes and advanced barcode enhancements
- Production — same feature set as Workgroup, required for scanners rated 90 PPM and above

4. Use the Scanner Configurator

Go to the Tungsten Scanner Configurator to identify the software needed for a specific scanner: select the scanner manufacturer, then the model, and the site will list supported configurations. Check the scanner manufacturer's site to see if it comes bundled with Tungsten VRS software. Note that the

AIPE engine (required for basic barcode scanning) is included with Desktop, Workgroup, and Production licensing; enhanced barcode scanning is only available with Workgroup or Production.

[Tungsten Scanner Configurator](#)

RVI RECOMMENDED SCANNERS (SAMPLE LIST)



Every model in this section has now been individually verified against current manufacturer, reseller, and Tungsten Scanner Configurator sources as of 7/29/2026. Note: Panasonic KV-S scanners have been removed from this list entirely — Panasonic exited the document scanner business in 2020, stopped manufacturing in 2022, and no current Panasonic scanner models are available for new purchase (replacement parts/support are promised only through 2029).

The Epson DS-770 II previously listed here is discontinued — replaced below with its current successor, the DS-530X.

Scanners with Tungsten VRS Elite included by the manufacturer

Note: We suggest always confirming with the reseller at the time of purchase that Tungsten VRS Elite is included — bundling policies change, and manufacturers frequently update which tier of VRS (if any) ships with a given SKU.

- Canon DR-M160 II — Desktop/Workgroup, ADF, Duplex, Letter/Legal, 60 PPM / 120 IPM, up to 600 DPI. Verified current: sold as a specific bundled SKU (Canon 0114T27902, "DR-M160II Bundled with Kofax VRS Elite") across multiple major retailers (B&H, CDW, Amazon, ScanTastik) as of 7/29/2026. Note: Canon's own direct-sales site currently lists this SKU as unavailable even though third-party resellers continue to actively sell it — worth confirming stock at time of quote.

Note: No other current-production scanner model (from Canon, Kodak Alaris, or Ricoh) was found to ship with Tungsten VRS Elite bundled by the manufacturer. Other Canon and Kodak Alaris models bundle a lower VRS tier (e.g., "VRS Pro" or "VRS Professional") or no VRS at all — VRS Elite must be purchased separately for those models, as shown below.

Scanners where the Tungsten VRS Elite must be purchased separately

- Canon DR-M260 — Desktop/Workgroup, 60 PPM / 120 IPM. Ships bundled with "Kofax VRS Pro," not Elite — VRS Elite is a separate purchase (see the Q&A Guide for current pricing).
- Canon DR-C230 — Desktop, 30 PPM / 60 IPM. No VRS bundled; ships with Canon's CaptureOnTouch/CapturePerfect software only.
- Canon DR-G2140 — Production, 140 PPM / 280 IPM. Ships bundled with "Kofax VRS Professional" at the standard level; VRS Elite is a separate paid upgrade (list price around \$2,299 at last check).
- Kodak Alaris S2050 — Desktop, 50 PPM / 100 IPM, \$950 list / \$855 at Scantastik, 5-year warranty. VRS Elite is a separate purchase.
- Kodak Alaris S2085f — Workgroup, 85 PPM / 170 IPM. Current model, confirmed certified compatible with Tungsten VRS Elite; VRS Elite is a separate purchase.

- Kodak Alaris i4650 — Production, 150 PPM / 300 IPM. Current model: VRS Elite is a separate purchase. (Note: the older i5200V/i5600V "VRS-included" models from the prior edition of this guide are now discontinued — and even those shipped with VRS Professional, not Elite.)
- Epson DS-530X (current successor to the discontinued DS-770 II) — Desktop, 45 PPM / 90 IPM, 100-page ADF, \$459 list / \$399 at Scantastik. Not sold as a dedicated VRS-bundle SKU, but Scantastik confirmed it can be purchased alongside a separate Tungsten VRS Elite Desktop license for \$998 total.
- HP ScanJet Enterprise Flow 5000 s5 — Workgroup, 65 PPM / 130 IPM. Genuinely VRS Elite certified (confirmed in the Tungsten Scanner Configurator, paired with VRS Elite 5.2), but Scantastik confirmed directly (7/29/2026) that they no longer sell HP scanners at all — this model will need to be sourced from a different reseller.
- Ricoh fi-8040 — Desktop, 40 PPM / 80 IPM, \$655 list / \$521.99 at Scantastik. Ships with PaperStream IP; VRS Elite is a separate purchase. A compact, budget-friendly option for smaller offices.
- Ricoh fi-8190 — Desktop/Compact, 90 PPM / 180 IPM. Ships with Ricoh's own PaperStream IP driver; Tungsten lists it as "VRS Elite certified" (compatible) but VRS Elite is not included and must be purchased separately.
- Ricoh fi-8170 (successor to the discontinued Fujitsu fi-7160) — Workgroup, 70 PPM / 140 IPM, \$1,070.99 (3-year warranty bundle) / \$1,199.00 (5-year warranty bundle) at Scantastik; ships with PaperStream IP rather than a bundled Tungsten license (see the Q&A Guide for details).
- Ricoh fi-8930 — Production, 130 PPM / 260 IPM. Ships with PaperStream IP; VRS Elite is confirmed not bundled and must be purchased separately.
- Ricoh fi-8950 (successor to the discontinued fi-7900) — Production, 150 PPM / 300 IPM; ships with PaperStream IP, VRS Elite is a separate purchase.

Scantastik's Jeff Michaud (email, 7/29/2026): "Kodak has the best software and a 5 year warranty. They have the better models when it comes to the larger production models too." He also specifically pointed to the Kodak Alaris S2070 (Workgroup, 70 PPM / 140 IPM, \$1,100 list / \$990 at Scantastik, 5-year warranty) as a good option — not included above since its Tungsten VRS Elite certification hasn't been independently confirmed the way S2050 and S2085f have.

NETWORK SCANNERS & MULTI-FUNCTION DEVICES (MFDs)

RVI doesn't connect directly to network scanners or MFDs — there's no live-scan connection or driver involved, unlike with a directly attached TWAIN or VRS scanner. What RVI can work with are the images those devices produce, once they've been imported into the system. That happens one of two ways: the device drops files onto a network drive that RVI's Auto Import can poll on a schedule (see Other Ways to Get Images into RVI, below), or the device stores images directly on the IBM i. Either way, some type of import is required to bring the images into RVI — no Tungsten/Kofax software is used in this process, and barcode recognition is not supported this way.

If barcode recognition is required on images from a network scanner or MFD, Tungsten/Kofax software for image processing (VRS, for example) would be required on a PC that performs the scan-from-disk function to read the barcodes.

Current examples: Canon imageFORMULA ScanFront 400, Ricoh fi-7300NX, and Kodak Alaris S2060w/S2080w.

OTHER WAYS TO GET IMAGES INTO RVI

Beyond scanning, RVI offers two additional ways to bring images into the system without a live scan connection at all:

Auto Import

RVI can poll a designated folder on a timed interval and automatically import any files found there — useful for network scanners, MFDs, or any other source that drops files into a folder. Options include moving or deleting files after import, combining multiple files into a single multi-page document, and routing imported files to a specific destination directory.

If a customer wants indexing to happen automatically as well — with no user involved at all — that requires additional custom programming, which carries a separate fee.

Email Import Service

RVI can monitor one or more incoming email addresses and automatically extract data from the subject line, body, and/or attachments for indexing and database lookup. The captured data and images are indexed against your database and routed into workflow based on your specific requirements — the service runs automatically, 24/7, with real-time monitoring available. Contact RVI to discuss configuration for your specific needs.

NON-VRS SCANNING

Tungsten AIPE (barcode reading without full VRS)

Tungsten AIPE supports a wide range of desktop, workgroup, and production scanners, including image processing, patch code reading, and support for standard barcode types. Enhanced Barcode (EBC) is an optional upgrade supporting 2D barcodes and barcode reading from color and grayscale images. AIPE and EBC are included with VRS Workgroup and Production editions.

TWAIN scanner support

RVI supports TWAIN scanner interfaces as part of the base software package. When using a TWAIN driver, the scanner uses its own manufacturer-provided software interface to scan, rather than a Tungsten/Kofax dialog — settings are configured and saved within that scanner's own interface. This also means image processing options like deskew and other VRS cleanup features are not available through the TWAIN scanning engine, since those are Tungsten/Kofax-provided capabilities.

TWAIN driver quality has improved significantly in recent years, and we now recommend it as a viable option for many customers who don't need VRS-specific features like barcode recognition or image cleanup — not just for light or supplementary scanning as in years past. This TWAIN option is available in both RVI 9.0 One Look and when scanning in the RVI Viewer. Contact your scanner manufacturer for support with TWAIN scanning problems or errors. The TWAIN interface works with all RVI versions with no additional RVI licensing fee. TWAIN drivers are used for scanners and, if needed, camera-based capture devices — signature pad capture is handled separately (see Signature Pad Capture below).

FOR ADDITIONAL SCANNER INFORMATION

[Tungsten Configuration Guide for all supported scanners](#)

[Ricoh \(formerly Fujitsu\) scanner support](#)

[Kodak Alaris scanner support](#)

[Canon scanner support](#)

SUPPORTED EMULATION & PC REQUIREMENTS

It is the customer's responsibility to verify with their emulation software vendor that the emulation software and release level in use support the operating environment chosen for the PC imaging workstations. This must be confirmed prior to installation of the RVI Imaging System. RVI can support emulation without EHLLAPI support.

Minimum OS/400 (IBM i) release level for RVI 9.0: V7R3.

PC requirements for scanning stations

- Windows 10 or Windows 11, any edition, including Home (new or existing PCs)
- PCs attached to the IBM i with required connectivity

Browsers: One Look runs in all browsers, but Internet Explorer (IE 11 or higher), Google Chrome (Chrome 60 or higher), or Microsoft Edge are preferred.

BARCODE RECOGNITION (RVI BASIC AND RVI COMPLETE)

Barcode recognition can be accomplished with any Tungsten-supported scanner when using VRS Workgroup or Production, or using Tungsten AIPE software directly. VRS Workgroup or Production is the recommended solution for reading barcodes during scanning, as it includes AIPE with both standard and enhanced barcode support. If the other benefits of VRS aren't needed, Tungsten AIPE software alone is available for scanners using USB interfaces. Reading barcodes must be accomplished at scan or import, prior to uploading to the IBM i.

IBM i FAXING

If inbound and outbound faxing are part of the installation, RVI supports facsimile support for the IBM i from IBM, Quadrant Fast Fax, and FAX STAR.

VIEWING STATIONS & STORAGE

Viewing station requirements

- Windows 10 or Windows 11, any edition, including Home
- Minimum 8 GB RAM / 2 GB free hard drive space recommended for modern PCs
- Connectivity to the IBM i and supported emulation program

Storage options

RVI's architecture is flexible and can accommodate multiple storage options based on specific application needs, including Network Attached Storage (a Windows server, NAS device, etc. that the IBM i can access) and IBM i DASD/IFS.

Nexsan is a current, active NAS/storage option — now owned by Serene Investment Management as of February 2023. Alliance/Plasmon (UDO optical storage) has been removed from this list, as that technology is now legacy/discontinued industry-wide.

Mobile image viewing & signature capture



RVI offers dedicated apps for iPad/iPhone and Android. Beyond the apps, RVI One Look is browser-based, so any device with a modern web browser — phone, tablet, or PC — can view images through One Look without installing anything.

OPTICAL CHARACTER RECOGNITION (OCR)

RVI 9.0 offers free Optical Character Recognition (OCR) built into the RVI Viewer — no separate OCR license is required. This is a change from earlier RVI versions, which required a separately purchased ScanSoft/Nuance OCR license per workstation.

OCR allows users to scan images and extract searchable text (character recognition, not word recognition), so documents can be found later using unique words from the scanned content. This requires RVI Viewer version 9.0.0.85 or newer — the current version available for download from the RVI website is 9.43.0.110.

OCR scan profiles support several processing modes: Single Pages (each page OCR'd individually), Multiple Pages with grouping on OCR change, Multiple Pages with the first page retained as a separator, Multiple Pages with the first page discarded as a separator, and Full Text Scans (words retained in a database for future keyword search).

SIGNATURE PAD CAPTURE

RVI Signature Pad Support enables users to apply a signature to a captured spool file or a scanned black-and-white image. RVI's signature capture is built around Topaz Systems' own drivers — for best results, download and install the latest drivers from topazsystems.com before configuring a pad in RVI Viewer (Image menu → Preferences → Signature Pad).

Currently supported Topaz model families: T-S, T-L, T-C, TF, and TM.

Topaz hardware can be purchased through BlueStar (North and South America) or Ingram Micro (USA), Topaz Systems' authorized distributors.

TUNGSTEN VRS PRODUCT TABLE



Suggested list pricing for Tungsten VRS Elite, reconfirmed as current against Scantastik's published pricing as of 7/29/2026:

Part Number	Description	Suggested List Price
VP-D005-0001	Tungsten VRS Elite Desktop	\$753
VP-W005-0001	Tungsten VRS Elite Workgroup	\$1,679
VP-P005-0001	Tungsten VRS Elite Production	\$2,837

VRS Server Licensing: Shared Licenses vs. One License Per Computer

The Desktop/Workgroup/Production licenses above are each tied to one computer. Tungsten also offers a VRS Elite Server License, which works differently: instead of licensing each scan station individually, it creates a shared pool of concurrent licenses that any scan station on the network can check out as needed, managed from one central administration console. The Server license also automatically pushes scan profile settings to every connected station, distributes software updates, and monitors scanner health/issues network-wide from that same console.

When a Server license is worth recommending, it tends to save money and administration time for a customer with many potential scan stations but only a handful actually scanning at once — for example, several departments or desks that each scan occasionally, but rarely more than two or three at the same time, company-wide. In that situation, a smaller shared pool of licenses can cover peak simultaneous usage for less than buying a separate license for every station, and having one console to manage settings and monitor scanner health across many machines is a real time-saver.

When per-computer licensing is the better fit: a customer with a small number of dedicated scan stations that are all in regular, simultaneous use — for example, two or three stations that scan every day — is usually better served by individual Desktop/Workgroup/Production licenses. The Server license carries its own cost on top of the licenses it pools, so for a small, consistently active group of stations, it can end up costing more than simply licensing each machine directly.

Confirmed directly by Kofax Sales (email, 8/6/2026): the VRS Elite License Server costs \$9,186.09, plus 20% maintenance and support per year. The break-even point against per-computer licensing still depends on the customer's exact station count and how often they scan simultaneously — run the numbers for the specific situation before quoting.

[Tungsten VRS Elite information](#)

[Tungsten Scanner Configurator](#)

CONTACT

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Real Vision Software, Inc. is an Independent Software Vendor (ISV) and IBM Business Partner.



RVI is proud to partner with Tungsten Automation (formerly Kofax) for scanner image processing and barcode recognition.