KEYPOINT INTELLIGENCE

CUSTOM TEST REPORT

Extracted from the comprehensive field test evaluation

Roland DG TrueVIS AP-640

64-Inch Wide Format Printer
CMYK Resin Ink

★★★★☆
Image Quality

- Halftone Images ★★★★☆
- Color Accuracy ★★★★★
- Color Gamut ★★★★★
- Multi-Panel Wallpaper Consistency ★★★★★

★★★★½
Usability

- Media Handling ★★★★☆
- Device Management and Monitoring ★★★★½
- Maintenance and Ink ★★★★½

★★★★☆
Speed

OUR TAKE

The TrueVIS AP-640 expands Roland DG's ink technology offering in the roll-to-roll market, delivering resin/latex water-based technology and in turn differentiating itself from most competitors who offer only one or two ink technologies. Furthermore, the AP-640 is introduced on the same platform as the well-established latest TrueVIS product line giving buyers confidence from the outset.

As an introduction to the latex/resin market, the AP-640 is sure to come under intense scrutiny, and—to its credit—it came through Keypoint Intelligence's extensive testing with flying colors. It delivered the largest color gamut seen to date for this ink technology, very impressive color matching results, very good image quality, very stable wallpaper consistency, fast productivity speeds, and a user-friendly management platform.

The new device shares the same media loading hardware and set up procedures for establishing optimal feed calibration and head gap adjustments, which current Roland DG's TrueVIS VG3 customers will readily appreciate, while new users will also welcome the system's ease of operation. The AP-640 is driven by the VersaWorks 6 RIP, a mainstay for all facets of job output and workflow. Roland DG is now offering for the first time Roland DG Connect, a cloud-based device management application that offers monitoring and cost accounting across most of Roland DG fleet. Maintenance is relatively easy and Roland DG Connect includes a health check to alert the operator when device maintenance is overdue. Usability is enhanced by a new seven-inch touchscreen which delivers fast processing of walk-up tasks such as device set up and media profile programing. Roland DG also promotes an efficient drying engine that allows for quicker first page out from idle 'cooled down' mode.

While the device does not offer a white ink or gamut expansion ink set as found on some competing units, it is going to be a strong competitor in this field. The device looks to be a great fit for this growing sector of the market and forms a strong base for future introductions.

FEBRUARY
2023

BENEFITS

- Common design platform across eco-solvent, UV and resin/latex markets maintains continuity and provides printshops with a full spectrum of capabilities
- High yield 700 ml eco-friendly ink bag reduces cost of ownership
- Optimiser supporting best image quality by minimizing dot gain
- Staggered printhead allowing for variable dot size printing
- User friendly automated media gap and feed calibration functions aids less experienced operators
- Bundled VersaWorks 6 RIP removes the need to invest in a third-party application, keeping investment costs down
- Improved media loading and take up aids with error free operation
- Advanced functionality in VersaWorks 6 can limit pre-flight time requirements allowing for faster job submission while ensuring high quality results
- Simple to use Roland DG Connect cloud-based app provides quick oversight of device and health status from the desktop or from portable devices, plus alerts when issues arise

ADVANTAGES

- Fastest resin/latex device tested across the combined monomeric and cast vinyl tests
- Largest color gamut measured on a resin / latex device tested to date
- Excellent spot color performance for a CMYK inkset device with only two colors above Delta E00 4.0, minimizing pre-flight delays on brand sensitive work
- Optimal image quality achieved at most productive print speed; excellent contrast, brightness and superb fine details
- Perforated sheet cutter option allows continuous feed printing mode while still providing a simple separation of sheets upon unloading
- Minimal manual media fed through required when loading with vacuum hold and automated to minimize risk of skew
- VersaWorks 6 Nearest Color Finder and Variation Job Function offer fast, clear-cut color optimization

IMAGE QUALITY

★★★★☆

Halftone Image Reproduction	★★★★☆
Color Accuracy	★★★★★
Color Gamut	★★★★★
Multi-Panel Wallpaper Hanging	★★★★★

KEY FINDINGS

- On monomeric vinyl, skin tones were neutral and smooth, though with a slight cyan bias. Most images displayed superb fine details with overall excellent contrast, brightness, and sharpness; greyscales exhibited a slight magenta bias.
- On cast vinyl media at the most productive quality setting, greyscales and skin tones were completely neutral color; light and dark contrast areas remained above average, while memory colors appeared slightly oversaturated.
- The fastest speed print mode showed virtually the same results with the standard and high-quality settings for the halftone image reproduction quality assessment.
- Color matching was very impressive with the device earning our coveted five-star rating with a mean variance of under Delta E00 2.6.
- Only two colors, PANTONE 165C (Home Depot Orange) and 2685C (Cadbury Purple) exceeded the visible recognition threshold of Delta E00 4.0 in High Quality mode, with PANTONE 293 (IKEA Blue) just falling above the threshold in standard mode.
- The 582,533 color gamut volume of the device is the largest measured for latex and resin ink devices tested to date.
- Gamut volume on cast vinyl is nearly 9% larger when the quality mode is raised to the highest quality setting.
- Excellent wallpaper results with a maximum of only 1.8 Delta E00 across the 54-patch media wedge, and a dimensional stability of only 0.36-mm variance over the metre length.

HALFTONE IMAGE REPRODUCTION

★★★★☆

Criteria	MPI 3000: Most Productive (8 Pass Standard)	MPI 1105: Most Productive (8 Pass Standard)	MPI 1105: Highest Quality (12 Pass High Quality)
Greyscales	Very Good	Very Good	Very Good
Skin Tones	Very Good	Very Good	Very Good
Memory Colors	Good	Good	Good
Metallics / Pearlescent	Excellent	Very Good	Very Good
Light Contrasts	Very Good	Very Good	Very Good
Dark Contrasts	Excellent	Very Good	Very Good
Fine Detail	Excellent	Excellent	Excellent

To compare rival devices' halftone image reproduction results visit bliQ WF

Memory colors, fine detail

Fine detail, dark contrast

Metallics, fine detail, pearlescent

Greyscales, dark contrasts

Skin tones, light contrasts

Memory colors, fine detail

Keypoint Intelligence's proprietary A0-size wide format test target that comprises six high quality color/black and white halftone images was printed at the most productive speed/quality setting that produced acceptable image quality without visible banding on both Avery Dennison MPI 3000 and MPI 1105 media. Each of the six images was cut from the larger target and visually appraised under standard lab lighting conditions for color accuracy, brightness, sharpness and contrast by two KPI technicians independently. Print samples on the MPI 3000 (monomeric vinyl) were evaluated at a distance of 10 feet (reflecting a walk-/drive-by viewing experience) and those printed on the MPI 1105 (Cast vinyl) were evaluated at a closer distance of two feet (reflecting a close-up viewing experience). Once completed, the individual appraisals were combined and a final image quality score was assigned. In the event of differing scores, the sample's quality was debated and a final consensus attained.

PANTONE CORPORATE COLOR ACCURACY

★★★★★

Avery Dennison MPI 1105: Most Productive (8-Pass Standard)

PANTONE Color	165 C Home Depot	2685 C Cadbury	285 C Walmart	123 C McDonalds	485 C Coca Cola	321 C Siemens	293 C IKEA	109 C IKEA
ΔE00	4.2	6.3	0.7	2.5	3.6	1.3	4.4	3.7
PANTONE Color	137 C Veuve Cliquot	279 C Microsoft	574 C Harrods	361 C FedEx	476 C UPS	RHOD RED C Mobile	294 C Ford	Average ΔE00
ΔE00	3.4	2.6	1.2	2.1	1.5	1.7	2.2	2.8

Avery Dennison MPI 1105: Highest Quality (12-Pass High Quality)

PANTONE Color	165 C Home Depot	2685 C Cadbury	285 C Walmart	123 C McDonalds	485 C Coca Cola	321 C Siemens	293 C IKEA	109 C IKEA
ΔE00	4.7	4.6	1.2	2.9	1.1	0.5	3.1	2.9
PANTONE Color	137 C Veuve Cliquot	279 C Microsoft	574 C Harrods	361 C FedEx	476 C UPS	RHOD RED C Mobile	294 C Ford	Average ΔE00
ΔE00	3.9	1.0	2.3	1.0	1.9	1.9	0.9	2.3

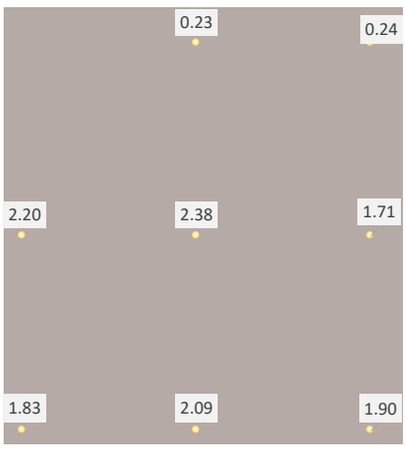
The KPI target is printed on the Avery Dennison Cast Vinyl MPI 1105 media using the vendor supplied media profiles at the most productive speed setting (no banding visible at two feet viewing distance) and the highest quality mode. Spot color management is enabled in the DFE but no color replacements/spot color editing is permitted. Note: All DFEs will have additional spot color adjustment capabilities allowing the printer to get closer to the PANTONE targets with extra operator time and effort.

COLOR CONSISTENCY

MPI 3000: Standard 8 Pass	Top Left	Top Right	Bottom Left	Bottom Right	Maximum Density Difference
CYAN	1.76	1.86	1.74	1.84	0.12
MAGENTA	1.40	1.41	1.40	1.41	0.01
YELLOW	0.92	0.92	0.90	0.92	0.02
BLACK	1.88	1.90	1.87	1.88	0.03
MPI 1105: Standard 8 Pass					
CYAN	1.95	1.90	1.94	1.90	0.05
MAGENTA	1.45	1.45	1.44	1.45	0.01
YELLOW	0.96	0.96	0.96	0.95	0.01
BLACK	1.85	1.86	1.82	1.84	0.04
MPI 1105: High Quality 12 Pass					
CYAN	1.97	1.93	1.97	1.94	0.04
MAGENTA	1.59	1.59	1.58	1.59	0.01
YELLOW	1.02	1.02	1.02	1.02	0.00
BLACK	1.93	1.95	1.94	1.98	0.05

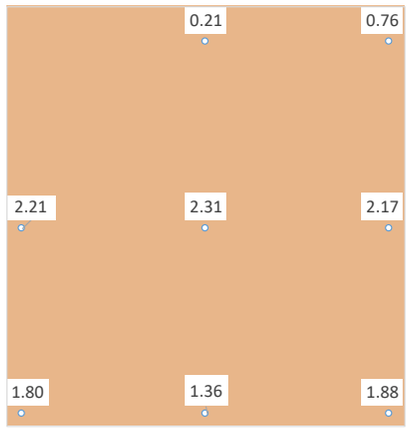
CMYK solid density measurements are recorded from the four corners of KPI's A0 target chart using a calibrated XRite eXact spectrophotometer. Results are obtained on the Avery Dennison MPI 1105 Cast Vinyl media at the most productive and highest quality mode, and on the Avery Dennison MPI 3000 Monomeric Vinyl at the most productive mode.

Color Consistency – Delta E00 Across Page



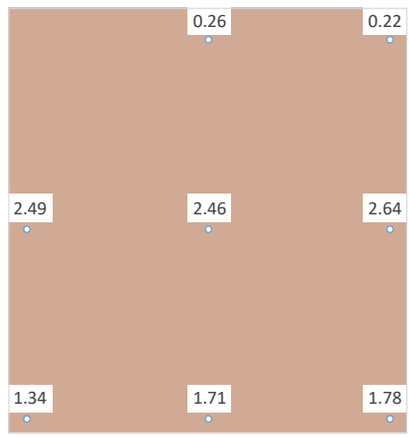
Neutral Grey

Average 1.57
Maximum 2.38



Skin Tone 1

Average 1.58
Maximum 2.31



Skin Tone 2

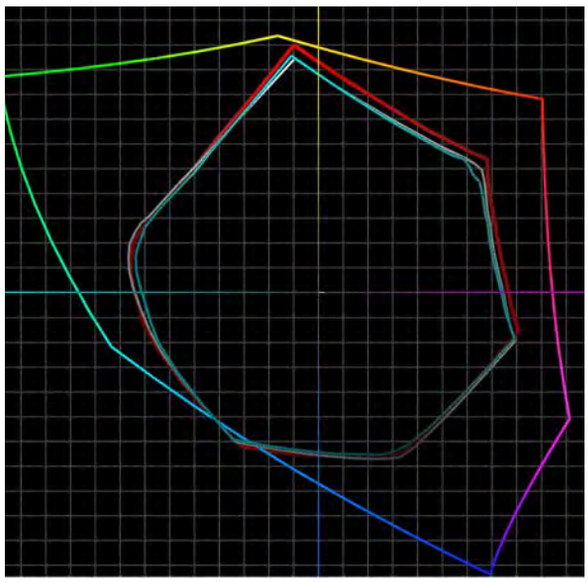
Average 1.61
Maximum 2.64

Color Accuracy Analysis

Three KPI A0 targets with 100% coverage of two skin tone shades and a neutral grey were printed on the Avery Dennison Cast Vinyl MPI 1105 media at the most productive speed setting. Color consistency across the sheets were assessed by comparing the top left corner against eight other locations using an Xrite eXact spectrophotometer.

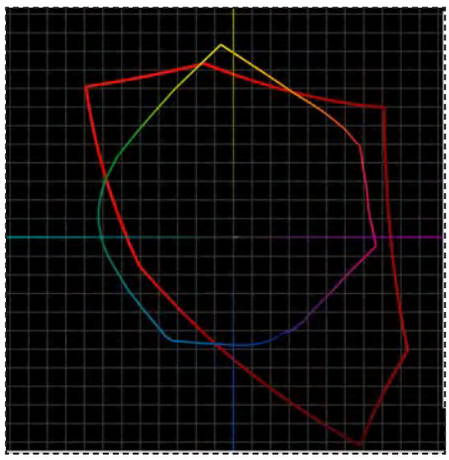
COLOR GAMUT

★★★★★

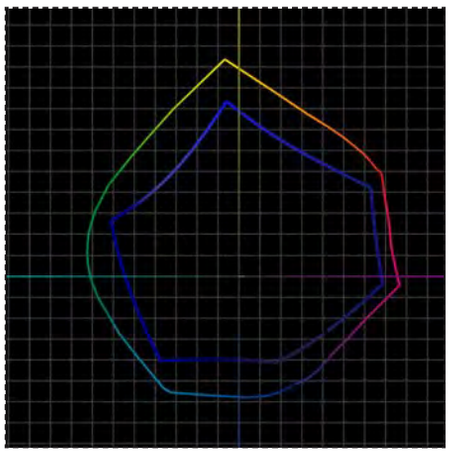


Media: Setting	Graphic Color Representation	Color Gamut (CIE) Volume
Avery Dennison MPI 3000: Most Productive	White	554,047
Avery Dennison MPI 1105: Most Productive	Cyan	571,482
Avery Dennison MPI 1105: Highest Quality	Red	622,072

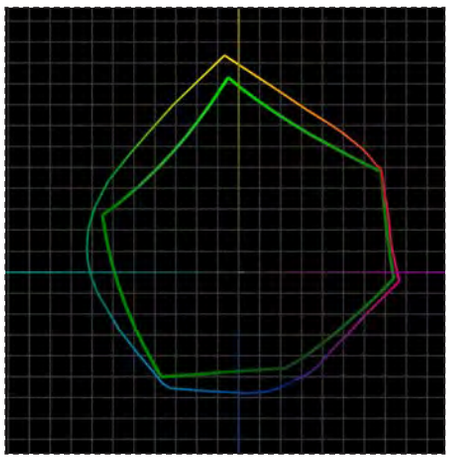
Compared against Adobe RGB



Chromic – HQ Cast Vinyl,
Red – sRGB



Chromic – HQ Cast Vinyl;
Blue – US SWOP



Chromic – HQ Cast Vinyl;
Green – FOGRA39

To compare rival devices' color gamut sizes visit bliQ WF

Color Gamut Analysis

The media profiles provided by the vendor were assessed using Chromix ColorThink Pro software to determine the cubic L*a*b* units color gamut volume measurements.

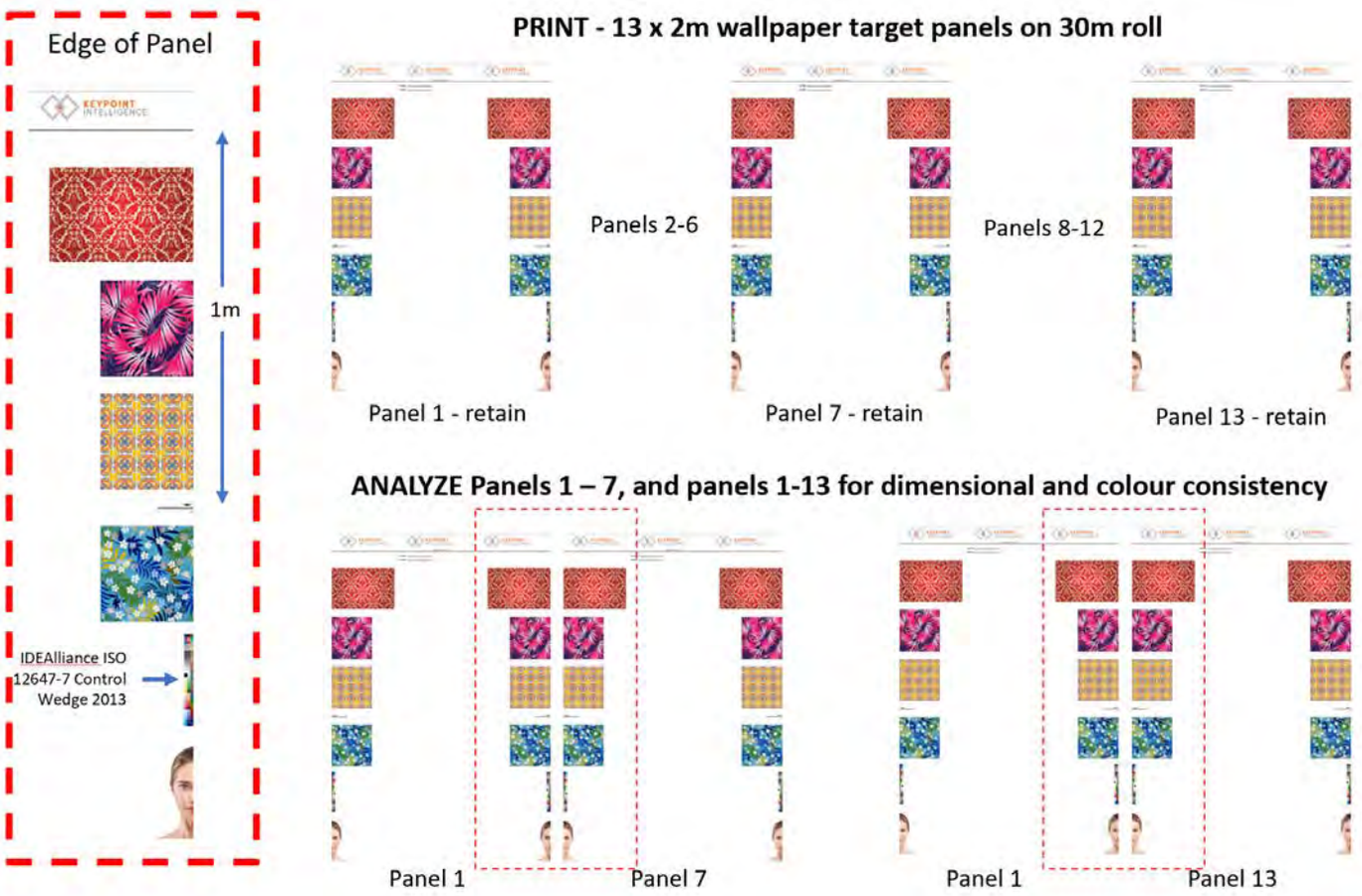
MULTI-PANEL WALLPAPER CHART: COLOR AND LINE CONSISTENCY ★★★★★

	Start to middle	Start to end
Mean Delta E00 over IDEAlliance wedge	0.6	0.6
Max Delta E00 over IDEAlliance wedge	1.8	1.4
Dimensional Accuracy (in mm)	0.02 mm	0.36 mm

To compare rival device performance visit bliQ WF

High resolution images showing dimensional and color consistency of wallpaper panels from beginning of the roll – panel 1 (left side) to end of roll – panel 13 (right)

WALLPAPER TEST ANALYSIS



Wallpaper Test Analysis

To assess the consistency of output when producing wall-hanging or other multi-panel artwork, Keypoint Intelligence printed a 2m test target over a series of 13 sets on a 30m Drytac CCIP – Color Capture Paper Fleece Ivory media. Delta E variances across the 54 patch IDEAlliance ISO 12647-7 Control Wedge 2013 were recorded comparing the first panel off the roll versus the middle of the roll and the end of the roll using EFI Color Verifier software. Dimensional stability is recorded using a one metre target distance marker.

USABILITY

★★★★½

Media Handling	★★★★☆
Device Management and Monitoring	★★★★½
Maintenance and Ink	★★★★½

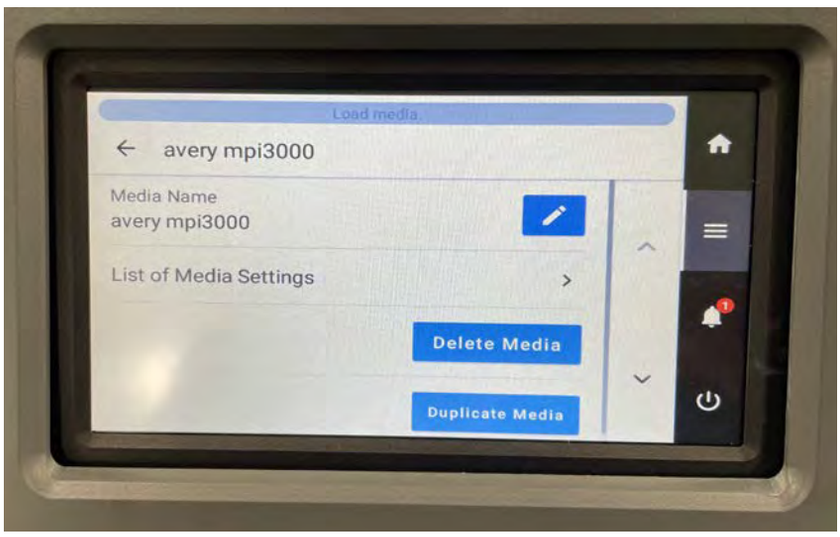
KEY FINDINGS

- Spindle-less media loading, vacuum hold and feed mechanism, and a new strengthened take up system all combine to minimize manual feeding distance and reduce the risk of skewing while improving take up. Sharing the same media loading system as Roland DG has introduced with the latest TrueVIS VG3 eco-solvent devices, the AP-640 delivered easy and reliable media loading.
- Up to 20 media profiles can be stored on the device. Entering the media details is easy due to the large touchscreen control panel. The unit features a media remaining function, which is a process that the user can enter the media length upon loading and then to print the remaining length before unloading the partial roll.
- The seven-inch touchscreen provides valuable information with one touch access to key elements of device management.
- The VersaWorks 6 RIP can drive up to four devices per one PC. The feature-rich solution is intuitive for conducting all operations and minimizes training time for new users.
- Class-leading spot color management with automated 'Nearest Color Finder' which allows the operator to print a selection of patches with minor color balance variations. These can be read by a spectrophotometer using VersaWorks 6, and the best possible color match is determined automatically.
- Roland DG Connect cloud application allows desktop and mobile users to see device/fleet status, conduct firmware updates, cost up jobs and track health status.
- Disposable 700ml ink and optimiser bags are loaded in reusable hard plastic casings minimizing waste. Replacement is straightforward with the operator simply sliding open the casing, inserting a new ink bag and tucking it under the ink transport roller. Maintenance fluid for wiper cleaning is topped up easily to the right of the device.
- Routine maintenance is limited to about a weekly wipe around the printhead to remove excess buildup, whose timing depends on usage of the printer. The process takes circa five minutes and does not require any tools, with finger screws used to remove a panel and guide plate to gain access to the printhead. There is a light to aid visibility to the printhead.

MEDIA HANDLING

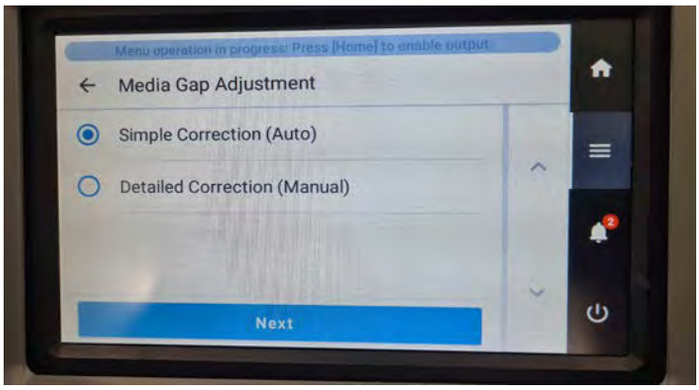
★★★★☆

- Media is loaded onto flanges which are mounted on the feed bar with a sliding mechanism. Two concave plates allow the media to be rested on safely while the flanges are attached. When the flanges are attached and pushed firmly in place the flange locking bars are raised preventing any sideways movement. The user lifts the pressure release lever at the front and the back of the device which raises the pinch rollers to allow the media to be fed through to the front of the device. An audible double beep signals when sufficient media has been fed through with the vacuum fan automatically activated, holding the media in place. The user can then rewind the media using the flanges from the feed roller to take up the slack. This process reduces the risk of skewing when feeding by reducing the distance of manual media feed that is required.
- The pinch rollers are mounted on a bar and can be repositioned by sliding along the bar if required. The pressure lever is then depressed to engage the feed rollers. The sensor moves across the media which verifies the width.
- The two media edge clamps slide in from the sides to hold the media flat and do not need to be removed before cutting can commence.
- Up to twenty media profiles can be stored on the system for reuse. Each profile includes various media adjustment characteristics including feed calibration and head gap, plus heater settings.



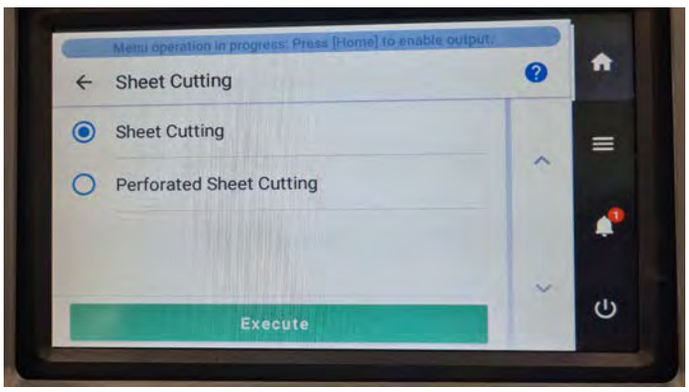
Media profile being created using the large touchscreen

- The device has a media remaining feature which allows the operator to specify the media length on the roll during installation and/or removal.
- The feed calibration and head gap adjust settings, which use a sensor to read specific patterns and register the results, can be conducted automatically. A manual mode allows target patches to be printed and visually assessed to determine the optimal settings that are then entered at the control panel. The manual head gap adjustment can be conducted in either simple or detailed mode. In simple mode, multiple droplet sizes are used to print single test pattern thread to determine the optimal head gap. In detailed mode four different drop size targets are printed with the operator choosing the optimal setting for each droplet size.



User choosing the auto or manual media gap set up process

- The difference in time to complete the automatic setting tasks versus the manual route are largely equivalent, with the major benefit being that the automatic choice reduces the skill requirement of the operator and enables the process to be conducted while the operator is carrying out another task.
- The media holder is quite high up on the device reducing the amount of waste at the end of a roll versus some devices which have the media rolls positioned lower to the ground.
- Up to twenty media can be classified for the device, and are easily set up on the device control panel
- When a new media is added, the user is taken through a list of setting options including print head height (low/med/high), nozzle drop out test & cleaning, and media adjustment method (auto or manual).
- The device can accommodate media rolls up to 45 kg which is competitive in this market.
- The take-up system comes as standard. Affixing media to the take-up reel is a straightforward process. Media can be attached to the take up unit during printing rather than having to be connected to the unit before printing can commence reducing waste. The left and right-side core attachments are adjustable.
- The take-up system has a manual toggle button for forward or backward feed. The touchscreen panel also includes a feed control option, plus it is used to set up the feed mode (tension or loose) and auto feed mode (forward or backward) to allow for image inside or outside take up.
- The sheet cutter can be set to perform a complete cut (separating the sheet) or a perforated cut, where the sheet is not totally separated and remains intact. This allows for continuous printing onto the take up roll but enables easy separation upon unrolling. The perforated selection can save media versus cutting each sheet individually.



User can choose between a full cut and a perforated cut mode

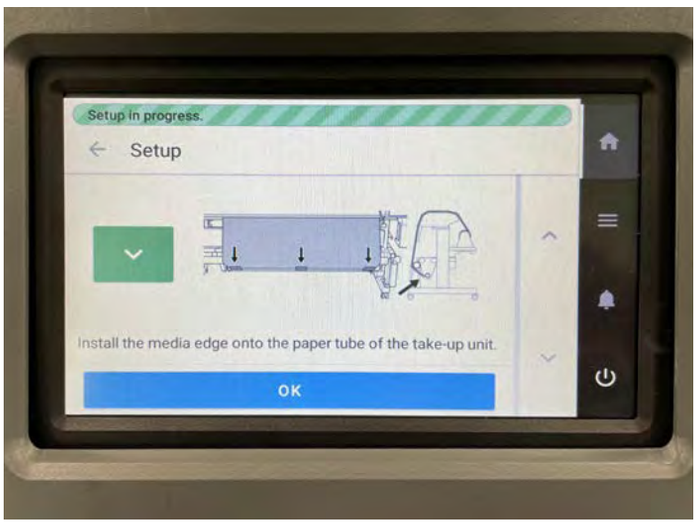
DEVICE MANAGEMENT AND MONITORING

★★★★½

- The display control panel is a seven-inch touch screen. Navigation around the menu system is intuitive with many of the key features accessible from the home page including media name, width and remaining length, ink levels, heater temperature, and take up unit set up. The home screen features icons that direct the operator to nozzle drop out tests (including cleaning routines), move media (forward, backward, printhead start position) and sheet cutting (perforated or full sheet).

Large touchscreen

- The control panel also includes useful aids to operation which the user can access by clicking on the Menu icon.



Clear instructions for media loading

- When the device is printing a job, extensive information is displayed on the panel including job name, a convenient thumbnail image, the media in use, ink, temperature, and take-up status, and the approximate time to print completion.
- The free Roland DG Connect utility enables monitoring of an unlimited number of registered networked devices. This cloud-based utility can be installed and accessed via PC or mobile devices.

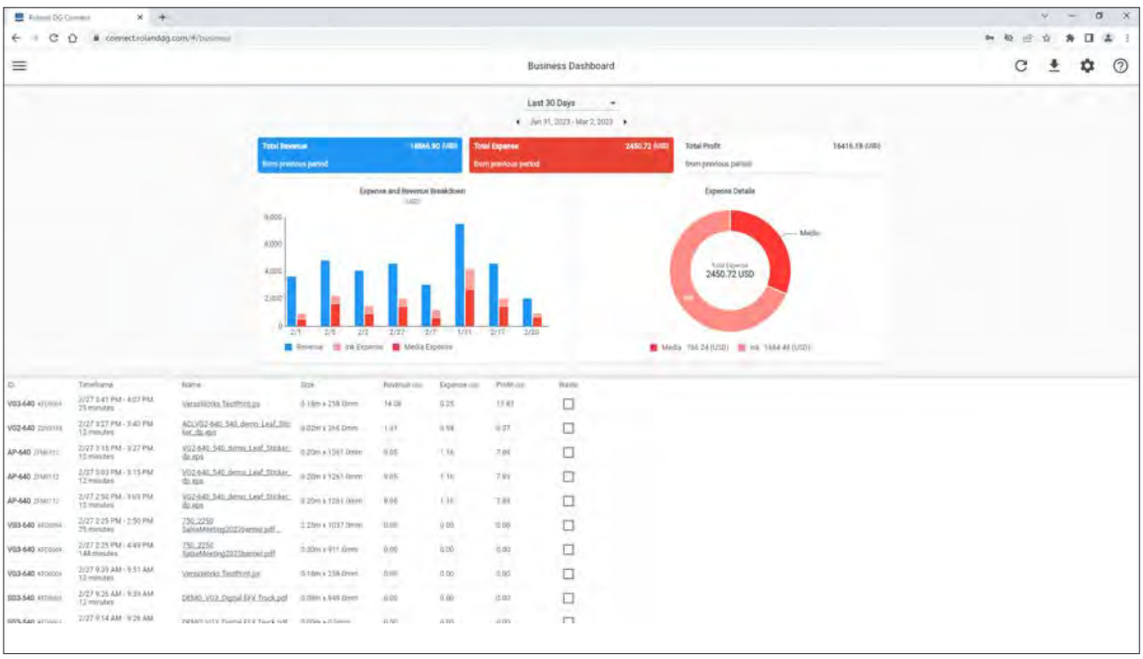
- Roland DG Connect's Printer Monitoring function gives you opportunity to view various information about each connected device such as printer status, operation rate, health check, job thumbnail, job name, job progress bar, remaining inks, total ink consumption, and operating history within the day with bar charts. Within the utility, the operator can view a breakdown of device status over time including printing, cutting, maintenance, error, standby, and sub power off operations, all provided in a simple pie chart format.

Printer Monitoring function of the Roland DG Connect

- A health check window provides a fleet level view of current device health, graded A to C. An A rating indicates the device is in full working order. A device in an error state, past its manual maintenance scheduled time or with parts/supplies beyond life are classified as C, while B classification indicates a device is soon approaching C status if not attended to.
- To ensure that device health issues are detected immediately, an unlimited number of email addresses can be entered in Account Settings.

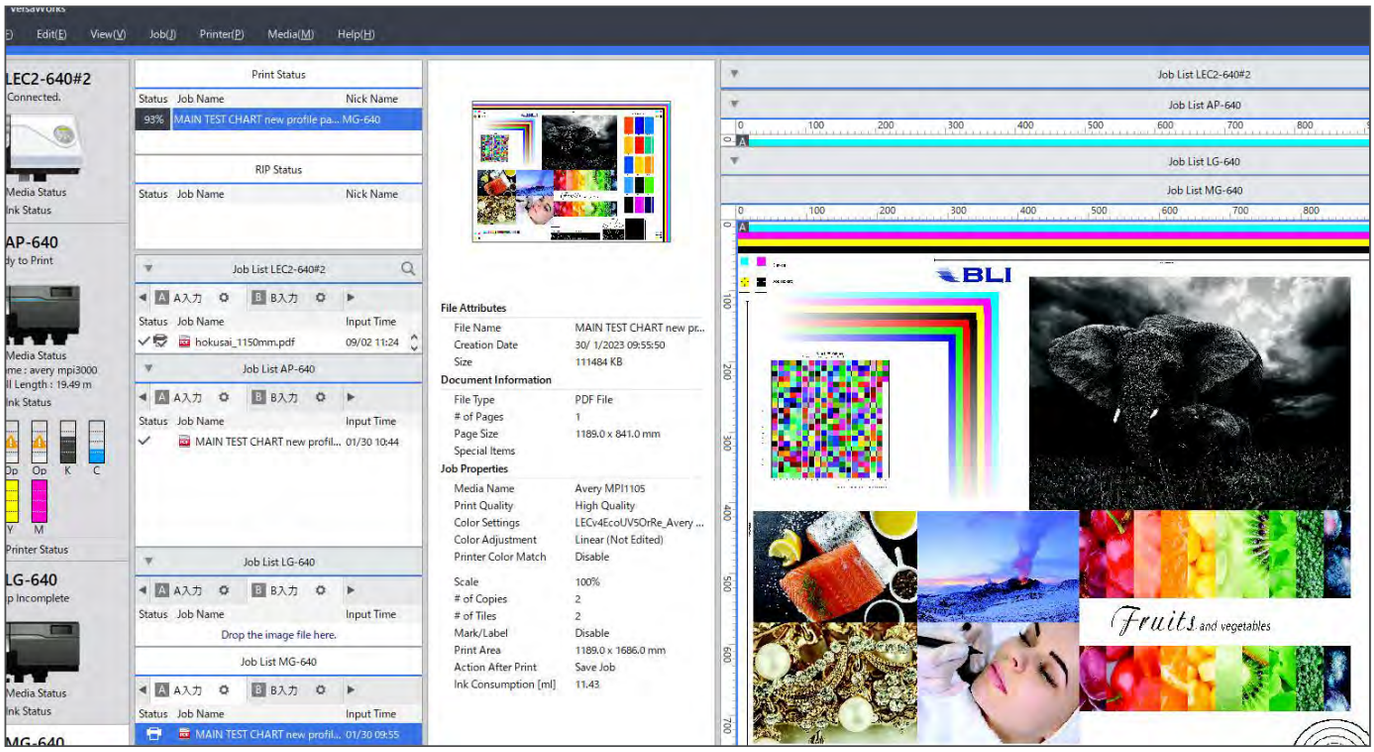
Health Check function of the Roland DG Connect

- The email alert system can also be set to inform the recipient when jobs have finished, when inks have been replaced, and other device status changes.
- Job accounting can be configured within Roland DG Connect Business Dashboard. Media roll and ink cartridge costs can be stored, allowing for individual job pricing to be generated. In addition, the utility offers a breakdown for total revenue, expense and profit (job pricing covers supplies costs only) over any customized period.



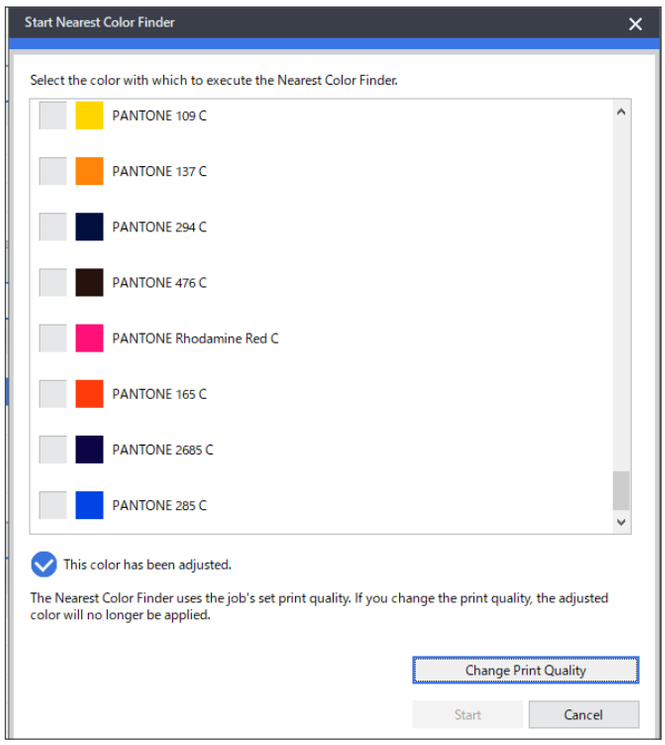
The Business Dashboard

- Roland DG Connect enables the easy download of media profiles that can be filtered by RIP type and media manufacturer. Each file includes ink limit settings, tone curve calibration, and the ICC profile. The VersaWorks media explorer enables the same operations.
- VersaWorks 6 RIP offers intuitive operation for up to four network connected printers. The RIP is well designed, divided into four quadrants that include the printer list, job list, granular file information and a large image thumbnail.

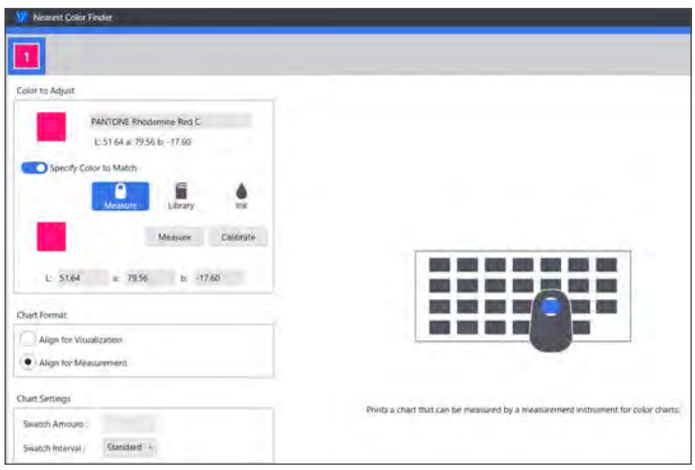


VersaWorks 6 Main Screen

- Each device has up to five active customizable queues into which jobs can be dropped or imported. These act like a hot folder and allow for specific, frequently used workflows to be reused quickly without risk of deviation. The queue can have all job ticket information stored for immediate association, including media type, color management settings, job size and formatting, nesting/tiling layout, print and cut marks etc. Each queue can be named for easy identification. Additional queues can be stored and swapped for a current queue when required.
- The queue can be set to RIP and send directly to the printer or be held in the queue pending release by the operator. This allows for individual jobs to have settings adjusted if required before they are RIPped and then released to print.
- VersaWorks 6 includes a wide array of Roland, DIC, Toyo, and PANTONE color libraries. New color libraries can be created with color information entered either through direct Lab/CMYK/RGB data entry or via a spectrophotometer manual scan. In the event of a manual spectrophotometer scan, VersaWorks 6 will then determine the optimal color settings to achieve this color.
- When spot color replacement is required to get the best possible match, VersaWorks 6 delivers a class-leading solution called Nearest Color Finder. Most RIPs allow for the printing of a selection of patches with slight modifications to the color makeup. The operator is then required to conduct the manual process of assessing which patch is the best fit whether through visual comparison to a PANTONE swatch book or through use of a spectrophotometer. VersaWorks goes one step further and allows the process to be conducted using a spectrophotometer, table or handheld, with the optimal color balance selected and stored automatically, a real time saver.

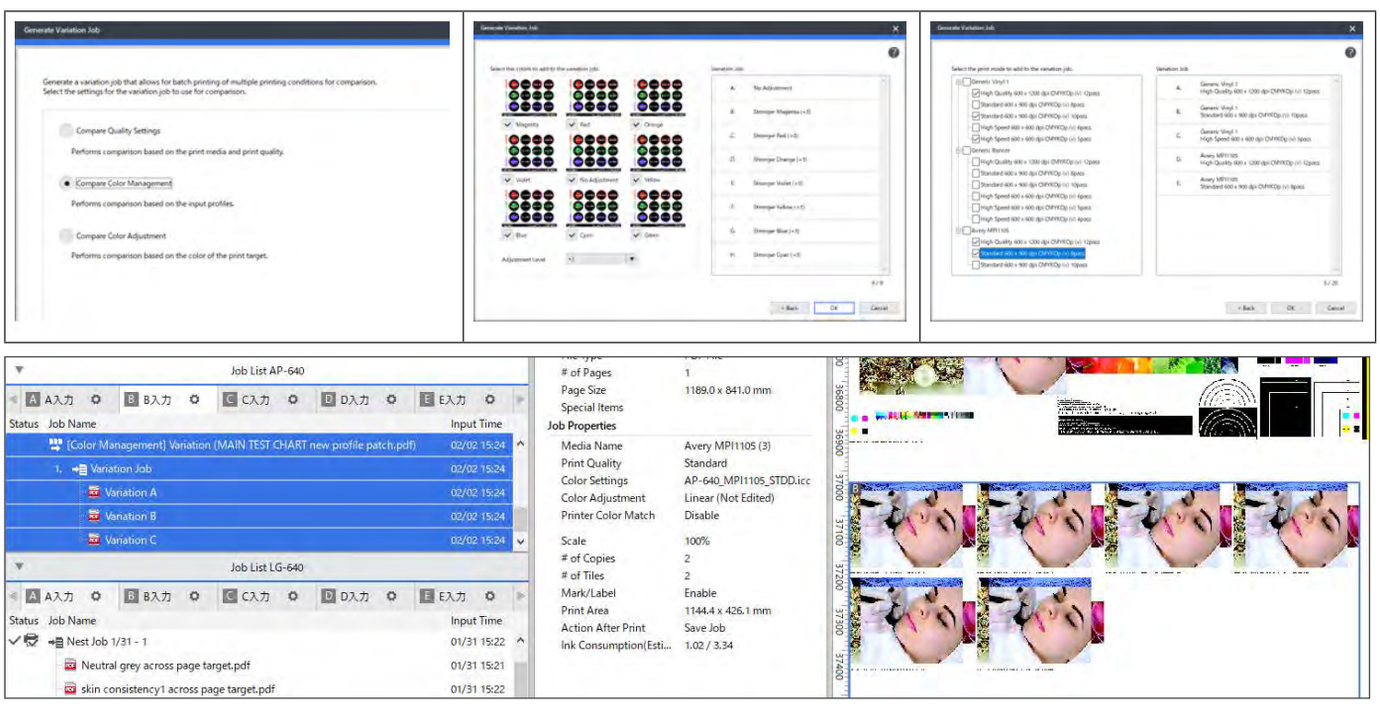


Nearest Color Finder pic 1



Nearest Color Finder pic 2

- Another valuable time saving feature of the VersaWorks 6 RIP is its Variation Job Function, which enables tiling of printed samples using a selection of different profiles and/or different color management settings. The printed output can then be quickly assessed by the operator to allow for the best selection to be implemented.



Variation job function

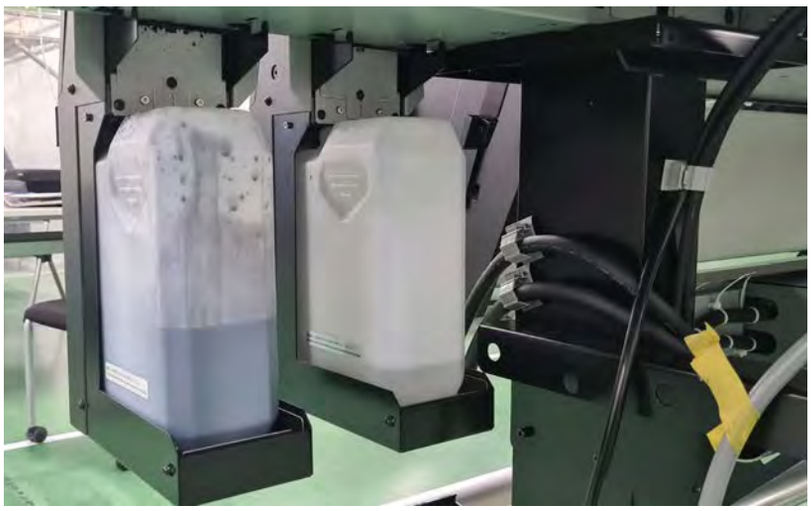
MAINTENANCE AND INK

★★★★½

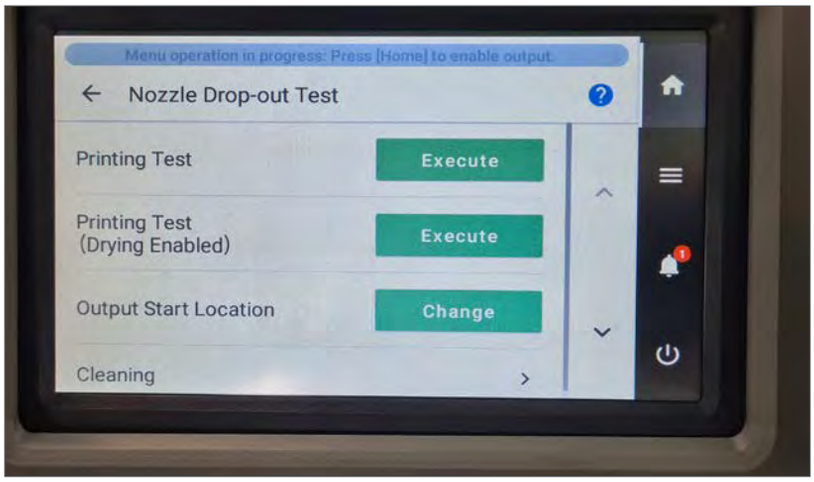
- The AP-640 comes with Roland DG's new resin ink in 700 ml cartridges which are loaded on top of the device. The use of ink bags reduces plastic waste. The user simply clicks in replacement bags and tucks the end of the bag under the roller which moves up the bag as ink is consumed. The chip is contained on a separate mounting plate that comes with the ink bag.

- Common to most latex/resin devices the AP-640 also uses an optimizer to help the ink bond to the media with minimal dot gain. The optimizer is contained in two 700 ml bottles and uses the same ink bag system.
- The device also includes a printhead wiper cleaning fluid which is contained on the right side of the device and can easily be topped up by pouring fluid directly into the container.

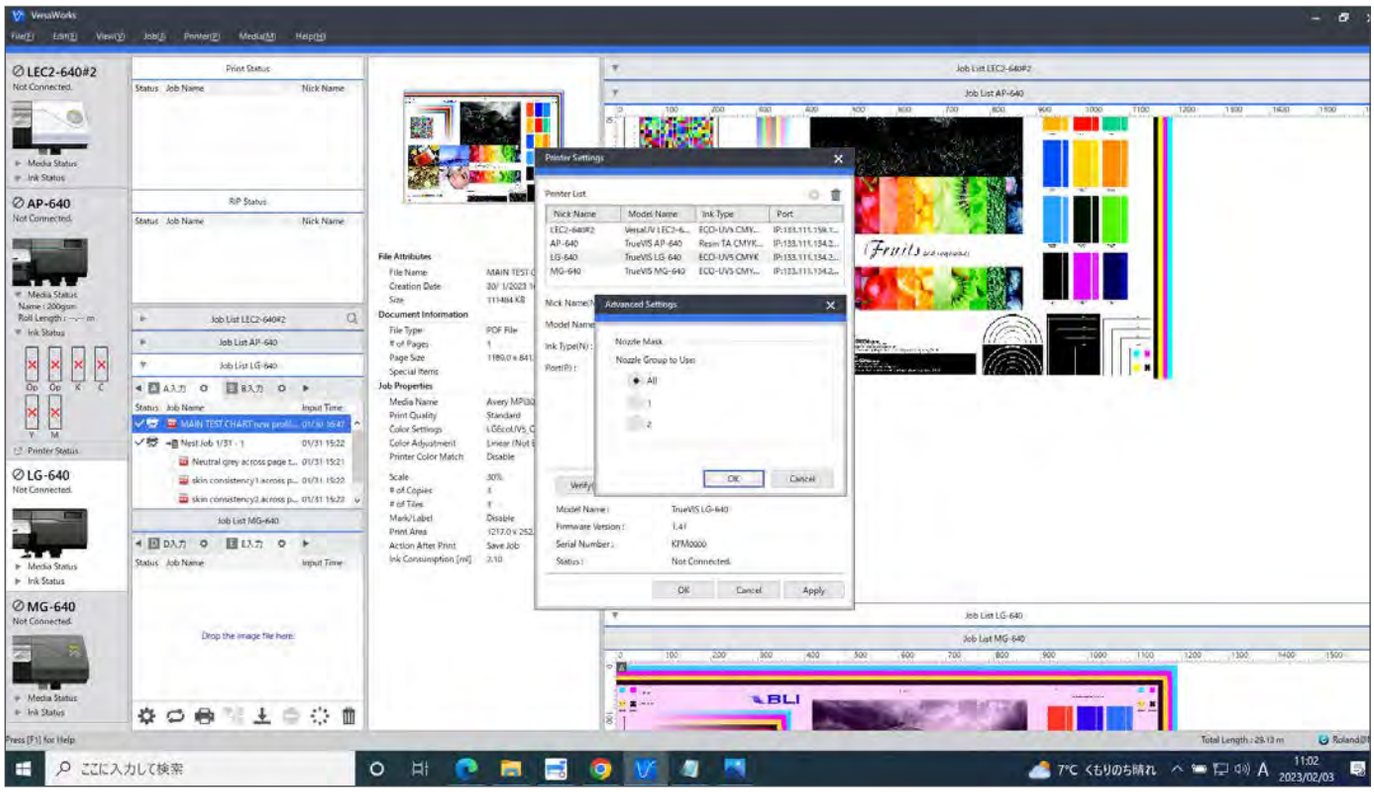
- There are two separate waste ink containers, one for inks and one for optimizer fluid, both located to the right side of the unit



- Roland DG recommends conducting periodic maintenance on the printhead. The device displays a message advising the operator to conduct this manual cleaning process, timing is determined depending on the usage, which is initiated via the function button. Once selected, the printhead moves to the left side of the device where the side panel can be opened without unscrewing. After the left cover is opened, the operator uses a cotton bud and cleaning fluid to wipe around the printhead. There is a convenient light inside the maintenance area that aids visibility. The whole process takes circa five minutes.
- Roland DG Connect can provide easy monitoring of the maintenance procedures carried out to help maintain A grade health status.
- There is no automatic nozzle blockage detection system. When an operator detects a nozzle blockage, either through printing issues or when conducting a printhead nozzle check, a cleaning routine (normal, medium, or powerful) should be performed. If this does not clear the nozzle blockage the operator can 'switch off' a portion of the printhead where the nozzle resides (the head comprises two zones). This sacrifices 50% productivity but allows for continued use pending a service engineer visit.



Nozzle block test being activated



Nozzle Mask function in event of unrecoverable nozzle block

SPEED

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KEY FINDINGS

- TheTrueVIS AP-640 produced two A0 size targets in ten minutes, 47.92 seconds on Avery Dennison MPI 3000 monomeric media, using the most productive Standard, 8 pass setting. These results are competitive to other latex/resin devices.
- Unlike most resin/latex tested competitors, the device was able to use the same Standard, 8 pass setting on cast vinyl media which is judged for salable quality at the closer, more challenging two-foot viewing distance. This resulted in the device delivering the fastest overall productivity results across these two popular media types.
- On Avery Dennison MPI 1105 cast vinyl, the device printed two targets in sixteen minutes and 38.97 seconds at the highest quality, 12 pass setting.
- The high speed 5 pass quality mode was not deemed of high enough quality to pass our most productive criteria, while the fastest 4 pass mode is restricted to banner media printing.

All Speed/Quality Settings Tested

	Avery Dennison MPI 3000	Avery Dennison MPI 1105
Standard 8 Pass (600 x 900)	647.92	660.04
High Quality 12 Pass (600 x 1200)	914.44	998.97

Time measured (in seconds) for two A0-size targets to be printed in seconds

To compare rival device performance visit bliQ WF

Speed Tests Analysis

Devices were timed for two of Keypoint Intelligence's A0-size image quality targets printed in succession with data width turned on so that printing began at the far left of the page. The stopwatch began when the printhead started the print process and ended when the second print completed printing and was ready to cut. The speeds listed below were measured at the most productive setting that produced image quality that Keypoint Intelligence determined as acceptable (no visible banding) on Avery Dennison MPI 3000 media when viewed at 10 feet and on Avery Dennison MPI 1105 media when viewed at two feet. The third speed measured was for the highest quality setting available to print two targets on Avery Dennison MPI 1105.

Supporting Test Data

The unit was evaluated equipped with the TrueVIS resin ink set and VersaWorks 6 RIP at the manufacturer's Japan facility during an intensive five-day test period. 54-inch rolls of Avery Dennison MPI 1105 – polymeric cast vinyl, Drytac CCIP – Color Capture Paper Fleece Ivory media for wallpaper testing and MPI 3000 – monomeric calendared vinyl media were tested on the device. All test files were submitted using the RIP provided by the manufacturer. Keypoint Intelligence utilized media profiles that were prepared By Roland DG for the evaluation. Ratings are based on a five-star system where five is the best.

About Keypoint Intelligence

For over 60 years, clients in the digital imaging industry have relied on Keypoint Intelligence for independent hands-on testing, lab data, and extensive market research to drive their product and sales success. Keypoint Intelligence has been recognized as the industry's most trusted resource for unbiased information, analysis, and awards due to decades of analyst experience. Customers have harnessed this mission-critical knowledge for strategic decision-making, daily sales enablement, and operational excellence to improve business goals and increase bottom lines. With a central focus on clients, Keypoint Intelligence continues to evolve as the industry changes by expanding offerings and updating methods, while intimately understanding and serving manufacturers', channels', and their customers' transformation in the digital printing and imaging sector.