

Field Test Report

A Comprehensive Keypoint Intelligence Field Evaluation

Mutoh HydrAton 1642

64-Inch Wide Format Printer

CMYK UV Ink (with Fujifilm AQUAFUZE Ink)



OUR TAKE

The Mutoh HydrAton 1642 is set to be a disruptor in the sign and graphics industry. Developed as a joint venture between Mutoh and Fujifilm, it combines Mutoh's hardware and software technology with Fujifilm's AQUAFUZE aqueous UV ink technology. Featuring a CMYK inkset and equipped with two-staggered Mutoh AccuFine printheads, the device achieves speeds of up to 15.3m²/hr. This represents a 20% speed improvement across our two media test runs on monomeric and cast vinyl PVC substrates over Mutoh's previous UV device, the ValueJet VJ-1638UR. Unlike other aqueous signage ink technologies, AQUAFUZE eliminates the need for an optimiser or primer to bond to the media. Mutoh promotes the printhead's high density nozzle design as key to delivering precise ink landing and rich output quality. This was evident in our testing, particularly on cast vinyl, where we observed a large colour gamut, photographic-like halftones, vibrant colours, sharp detail, and impressive contrast across diverse samples. AQUAFUZE's low VOC content, absence of CMRs, GHS

hazard-free status, and multiple indoor air quality certifications (including GreenGuard) expected by launch, reinforce its environmental responsibility. This is critical given Mutoh's messaging indoor-use applications as a key target area for the HydrAton 1642 where other aqueous wide format technologies do not satisfy demand.

Mutoh users will be pleased that the HydrAton carries forward the operator-friendly features they are familiar with on the XpertJet series, such as Dropmaster2 for automated bi-directional alignment and Feedmaster for automated paper feed adjustment. Improved pressure control and variable printhead height options enhance the device's ability to handle challenging media. As with other devices in the Mutoh family, the HydrAton 1642 comes bundled with Mutoh's own intuitive VerteLith RIP, completing a familiar and streamlined experience from desktop to printer for existing Mutoh users.

★★★★☆

Image Quality

◆	◆	Halftone Images	★★★★☆
◆	◆	Colour Accuracy	★★★★☆
◆	◆	Colour Gamut	★★★★☆
◆	◆	Multi-Panel Wallpaper Consistency	★★★★☆

★★★★☆

Usability

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

★★★★☆

Speed

◆	◆		
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JANUARY
2025

BENEFITS

- Multiple head height options and adjustable feed roller pressure levels enhance the handling of challenging media
- Mutoh Status Monitor offers comprehensive remote control and device management capabilities
- Spindle free design, a short paper path to printhead, and quick media registration process allow for straightforward and efficient media loading
- Ink usage estimator enables the quick costing up of single or multiple batch print jobs in RIP queue
- Very good colour matching, with an average of 3.60 DeltaE in most productive mode and a very impressive match of 3.28 DeltaE on our most challenging colour (PANTONE 2685C Cadbury Purple) in highest quality mode.
- Mess free waste ink process without the need to remove the full tank, simplifies maintenance

ADVANTAGES

- GHS-free inks with no CMRs and low VOC content reduce health risks for operators
- No primer or optimiser required, unlike other water-based signage printers
- Thin ink layer provides a smoother feel and retains more media surface integrity
- Low temperature curing means a wider range of heat sensitive media can be used
- Short paper path from roll to printhead and no need for media to be affixed to the take up roller before printing commences means less media waste
- Take up system operates only during active printing, reducing wear on motors, media stretch risk, and energy consumption
- Automatic media profile and remaining roll length (Media Tracker) detection during media loading saves valuable operator time when switching jobs
- User friendly VerteLith RIP simplifies operation for novice users
- Automated bi-directional alignment, paper feed adjustment, and media length tracking sensor enhance ease of use

LIMITATIONS

- No white or varnish ink options available
- VerteLith RIP does not currently support nesting capability for multi-layer printing
- No media lifting aid included
- Device user interface could be more intuitive
- Maintenance tasks lack on-device guidance for novice users
- Cumbersome VerteLith RIP spot colour management, with the cloning of existing spot colour library entries into custom libraries not permitted
- VerteLith RIP is limited to managing only four devices, fewer than many competing RIPs
- Media profiles cannot be copied from one device to another via the RIP GUI
- Media profile library is capped at 15 items, potentially limiting the value proposition of automated media detection and roll length functionality features
- No mobile connectivity to device or RIP for remote monitoring and control


IMAGE QUALITY


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

KEY FINDINGS

- Bright, well-saturated, realistic memory colours, sharp detailing and good contrast in light and dark areas, and smooth, slightly cool skin tones were observed on monomeric vinyl. Greyscales exhibited a slight magenta hue in dark areas but had very good tonal transitions and depth of field.
- On cast vinyl we saw vibrant colours and warm smooth skin tones. Greyscales showed improvement at the higher quality setting, losing the magenta cast seen at the most productive level. Metallics and pearlescents were rich, well detailed, and had lustre.
- Impressive level of fine detail as well as light and dark contrasts ensured image integrity was maintained across a range of settings.
- Achieves highly impressive colour accuracy for a CMYK ink set device, with low average 3.6 Delta E00 measurements for 15 PANTONE colours at the most productive speed mode, an impressive 6.7 measured as the highest DeltaE00 variance, and ten colours registering below 4.00 Delta E00.
- Bright purple (Cadbury's Pantone 2685C) proved challenging to match, as is typical for many devices we've tested. However, in the highest quality mode, the HydrAton 1642 achieved a colour match of just 3.28 Delta E00.
- In Production Mode (1200 x 1200dpi) on monomeric vinyl, the colour gamut measured a modest 327,427, smaller than many devices we have tested.
- On cast vinyl media at the higher resolution speed modes, colour gamut volumes of up to 578,038 were highly competitive.
- Wallpaper colour stability results delivered a maximum colour drift of 2.82 Delta E00 across the 54-patch media wedge. Maximum dimensional stability deviation was 1.91 mm over 1 metre from start to finish of the 26-metre test run.

 HALFTONE IMAGES


Criteria	MPI 3000: Most Productive (Production)	MPI 1105: Most Productive (Quality)	MPI 1105: Highest Quality (High Quality)
Greyscales	Good	Good	Very Good
Skin Tones	Very Good	Very Good	Very Good
Memory Colours	Very Good	Very Good	Very Good
Metallics / Pearlescent	Very Good	Very Good	Very Good
Light Contrasts	Very Good	Very Good	Very Good
Dark Contrasts	Very Good	Very Good	Very Good
Fine Detail	Very Good	Very Good	Very Good

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



Memory colours, fine detail



Fine detail, dark contrasts



Metallics, fine detail, pearlescent



Greyscales, dark contrasts



Skin tones, light contrasts



Fruits and vegetables



Memory colours, fine detail

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



PANTONE CORPORATE COLOUR ACCURACY



Avery Dennison MPI 1105: Most Productive (Quality)

PANTONE Colour	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	5.5	6.7	3.7	3.6	1.8	4.2	1.4	3.9
PANTONE Colour	137 C Veuve Cliquot	279 C Microsoft	574 C Harrods	361 C FedEx	476 C UPS	RHOD RED C T-Mobile	294 C Ford	Average ΔE00
ΔE00	4.4	5.8	2.8	2.3	3.5	3.0	1.4	3.6

Avery Dennison MPI 1105: Highest Quality (High Quality)

PANTONE Colour	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	7.6	3.3	2.6	5.9	3.2	3.7	4.1	3.4
PANTONE Colour	137 C Veuve Cliquot	279 C Microsoft	574 C Harrods	361 C FedEx	476 C UPS	RHOD RED C T-Mobile	294 C Ford	Average ΔE00
ΔE00	7.1	5.1	4.9	1.8	5.4	3.0	2.7	4.2

Keypoint Intelligence's target is printed on the Avery Dennison Cast Vinyl MPI 1105 media using vendor-supplied media profiles at the most productive speed setting (no banding visible at two feet viewing distance) and the highest quality mode. Spot colour management is enabled in the DFE but no colour replacement/spot colour editing is permitted. Note: All DFEs offer additional spot colour adjustment capabilities that, with extra operator time and effort, allows the printer to get closer to the PANTONE target.

COLOUR CONSISTENCY

MPI 3000: 6 Pass Production

	Top Left	Top Right	Bottom Left	Bottom Right	Maximum Density Difference
CYAN	1.22	1.21	1.15	1.05	0.17
MAGENTA	0.91	0.90	0.92	0.75	0.17
YELLOW	0.85	0.80	0.80	0.75	0.10
BLACK	1.91	1.87	1.89	1.85	0.06

MPI 1105: 6 Pass Quality

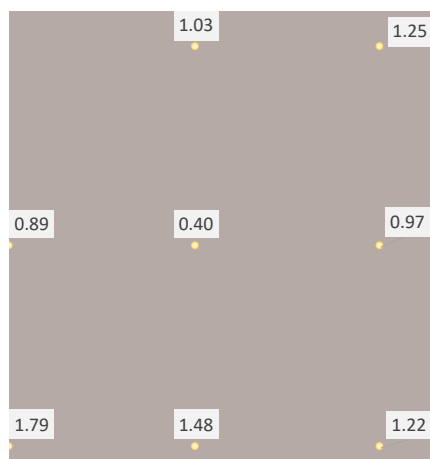
	Top Left	Top Right	Bottom Left	Bottom Right	Maximum Density Difference
CYAN	1.54	1.53	1.30	1.39	0.24
MAGENTA	1.32	1.30	1.01	1.30	0.31
YELLOW	0.98	1.01	0.97	0.98	0.04
BLACK	1.65	1.65	1.65	1.62	0.03

MPI 1105: 8 Pass High Quality

	Top Left	Top Right	Bottom Left	Bottom Right	Maximum Density Difference
CYAN	1.52	1.49	1.43	1.51	0.09
MAGENTA	1.5	1.53	1.47	1.47	0.06
YELLOW	1.15	1.16	1.13	1.12	0.04
BLACK	1.57	1.6	1.53	1.53	0.07

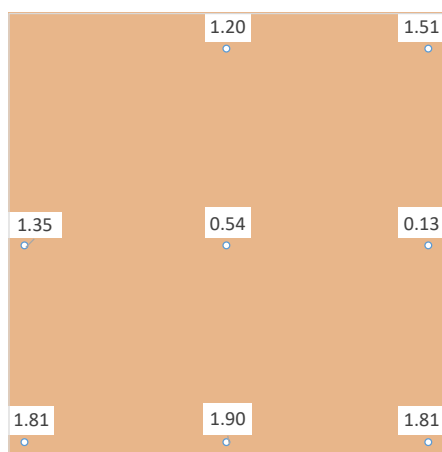
CMYK solid density measurements are recorded from the four corners of KPI's A0 target CMYK solid density measurements are recorded from the four corners of Keypoint Intelligence's A0 target chart using a calibrated X-Rite eXact spectrophotometer. Results are obtained on Avery Dennison MPI 1105 Cast Vinyl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

Colour Consistency – Delta E00 Across Page



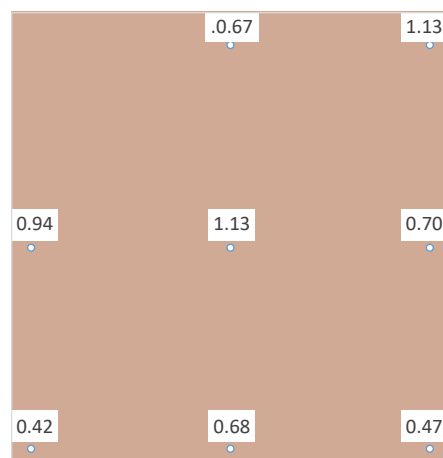
Neutral Grey

Average 1.13
Maximum **1.79**



Skin Tone 1

Average 1.28
Maximum **1.90**



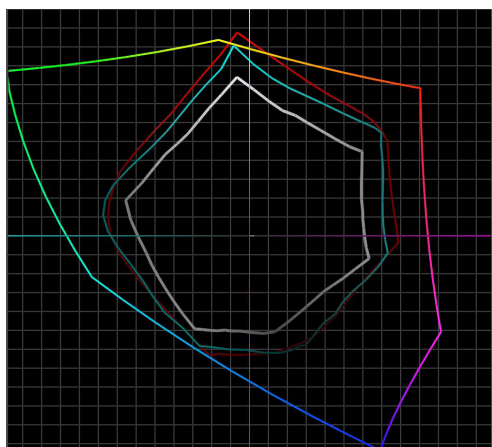
Skin Tone 2

Average 0.77
Maximum **1.13**

Colour Accuracy Analysis

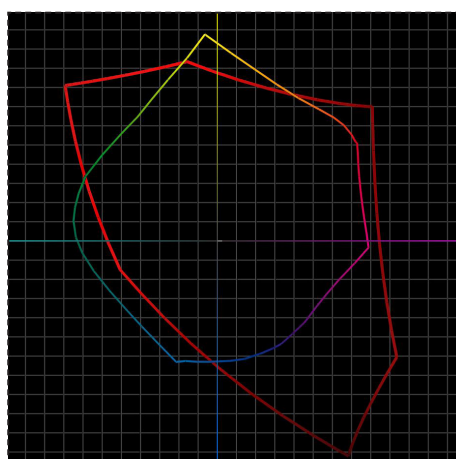
Three Keypoint Intelligence A0 targets with 100% coverage of two skin tone shades and a neutral grey were printed on the Avery Dennison Cast Vinyl MPI 1105 media at the most productive speed setting. Colour consistency across the sheets were assessed by comparing the top left corner against eight other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

COLOUR GAMUT

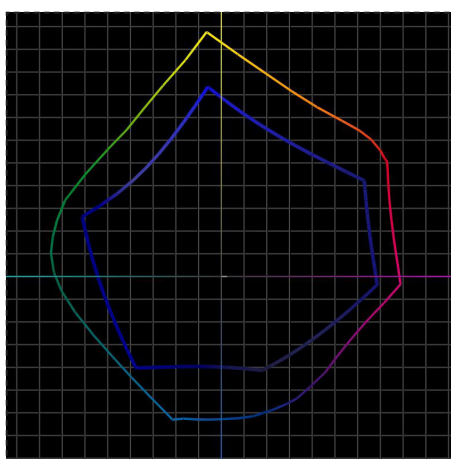


Media: Setting	Graphic Colour Representation	Colour Gamut (CIE) Volume
Avery Dennison MPI 3000: Most Productive	White	327,427
Avery Dennison MPI 1105: Most Productive	Cyan	523,326
Avery Dennison MPI 1105: Highest Quality	Red	578,038

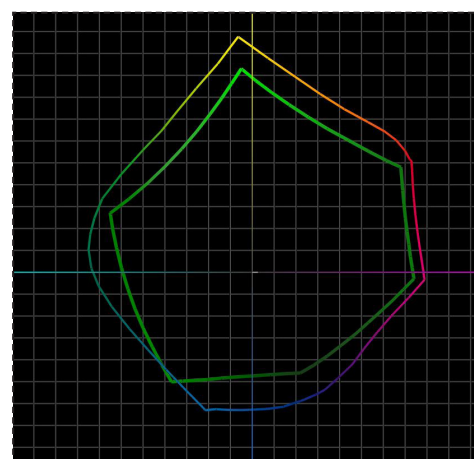
Compared against Adobe RGB (1998) colour space (multi-colour graph)



Chromic – HQ Cast Vinyl
Red – sRGB



Chromic – HQ Cast Vinyl
Blue – US SWOP



Chromic – HQ Cast Vinyl
Green – FOGRA39 Coated

To compare rival devices' colour gamut sizes visit [bliQ WF](https://www.bliq.wf)

Colour Gamut Analysis

Media profiles provided by the vendor are assessed using Chromix ColorThink software to determine the cubic L*a*b* units colour gamut volume measurements.


MULTI-PANEL WALLPAPER CHART: COLOUR AND LINE CONSISTENCY

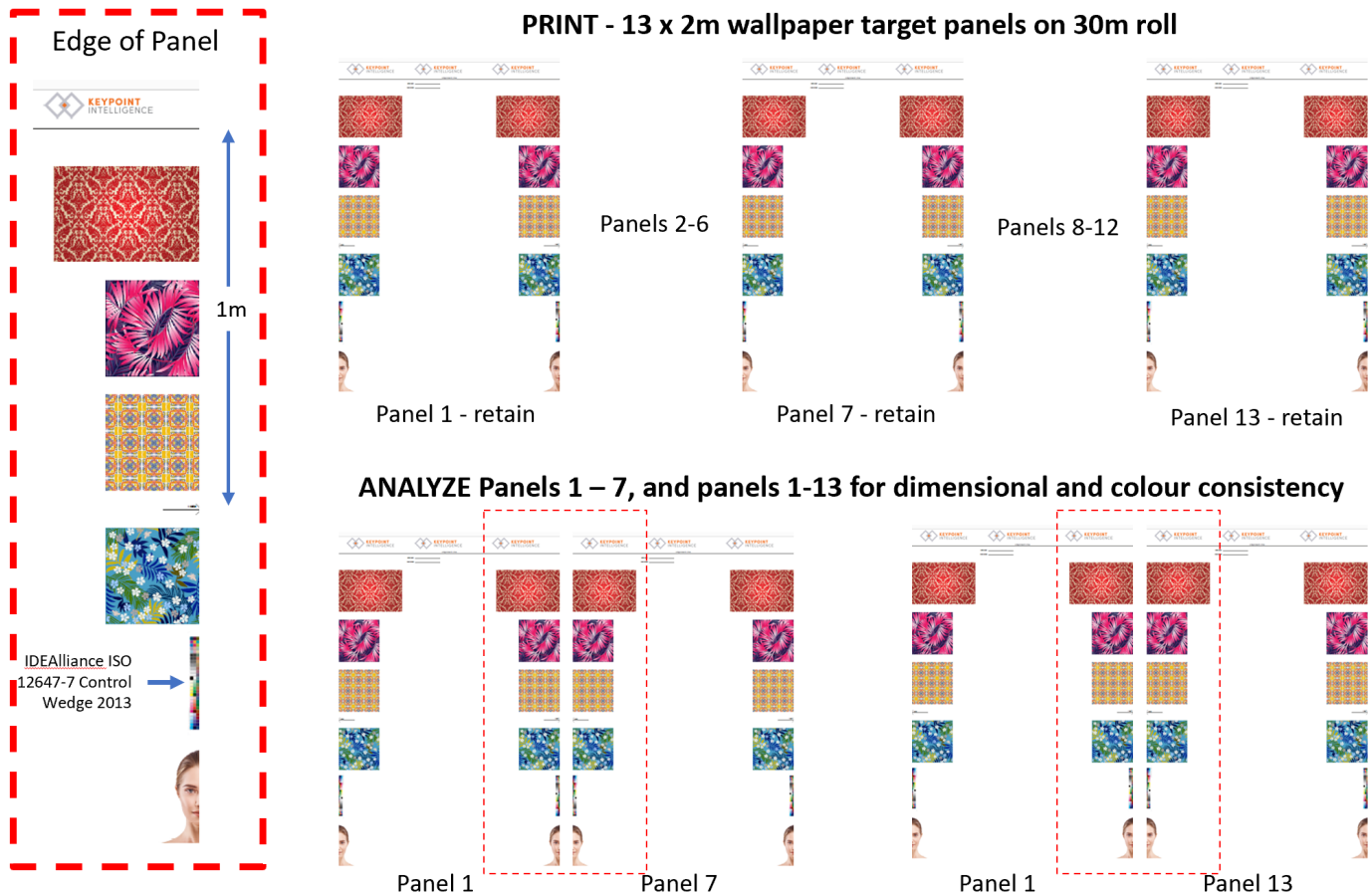

	Start to middle	Start to end
Mean Delta E over FOGRA wedge in DeltaE00	1.2	1.29
Max Delta E over FOGRA wedge in Delta E00	2.57	2.82
Dimensional Accuracy (in mm)	1.8 mm	1.91 mm

To compare rival device performance visit [bliQ WF](#)



High resolution images showing dimensional and colour 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 evaluate output consistency for the production of wall-hanging or other multi-panel artwork, Keypoint Intelligence printed a two-metre 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 was measured using a one-metre target distance marker.

USABILITY


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

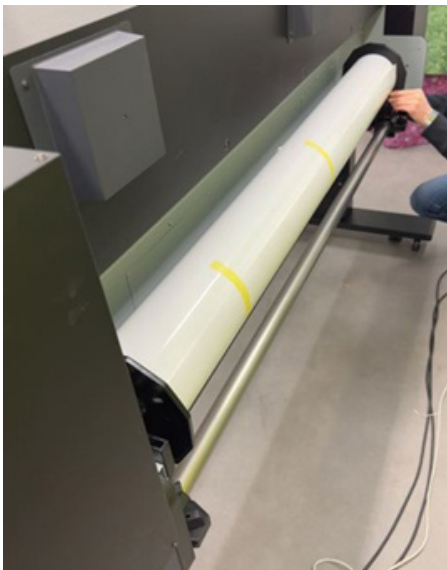
KEY FINDINGS

- Straightforward spindle-less media loading; very short media path from load area to printhead minimizes media waste; simple take up procedure.
- Robust media management with up to 15 media profiles stored and available for manual selection; media identification barcode tracking capability can be also used for a more seamless process.
- The device's control panel, featuring a two-line LED display and cursor buttons, is less intuitive compared to competitors and requires familiarity with the menu system for efficient operation.
- Mutoh's own VerteLith RIP, which can drive up to four active devices at a time, is user friendly and offers a high level of functionality.
- Jobs are easily managed within the RIP, with 15 tabs providing clear navigation through the setup process, including printer profile, layout, colour management, ink control, spot colour replacement, tiling, and more.
- Spot colour management is managed by the RIP's spot colour library. While operators can create custom libraries and modify L*a*b* values, alias associations, and CMYK patch targets, there is no option to import spot colours directly from PANTONE libraries, requiring manual entry.
- Mutoh's Status Monitor (MSM) provides comprehensive device oversight, control, and tracking information via web-enabled devices, offering live maintenance processes, view job status, job history, and costings.
- Disposable 1-litre ink packs are installed in hard casing cartridges, with separate chip cards (rather than being built into the disposable ink pack as found on some rival units). Inks can be replaced during printing, boosting uptime.
- Recommended weekly routine maintenance includes a wipe down of the printhead, capping station, and wiper blade, with unobstructed access to all areas. On-device or control panel guidance (which would be helpful for a novice user) is absent, however instructional Mutoh maintenance videos are available on YouTube.

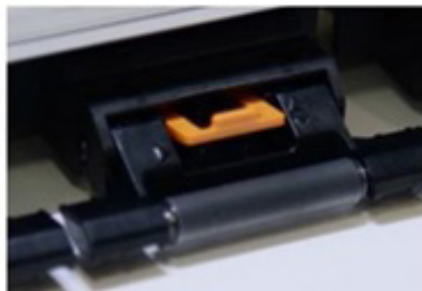
MEDIA HANDLING



- The HydrAton 1642 maintains the same user-friendly media handling approach as found with other devices in the Mutoh family. Media is loaded using flanges, with the user simply twisting the flange handles which tightens them to the media core. The roll is then loaded at the rear of the device; the user slides out the pressure release lever (accessible from both the front and rear), feeds the media through, and aligns it with the guide plates. Depressing the pressure lever engages the feed rollers. The device then feeds the media back to check for a barcode. If detected, it automatically updates the system with the correct media type, roll width, and remaining length. Best practice is to perform a paper feed adjustment, which prints a series of patches that are automatically scanned by the device, thereby optimising alignment and bi-directional drop placement.



Media loading on the Hydraton 1642



Adaptable pressure modes aid media feeding

- The feed rollers are adjustable to two pressure positions when engaged: light pressure and greater pressure. The light pressure is designed for handling more challenging media types that may be prone to some cockling.
- The HydrAton 1642 features three adjustable printhead height settings to accommodate different

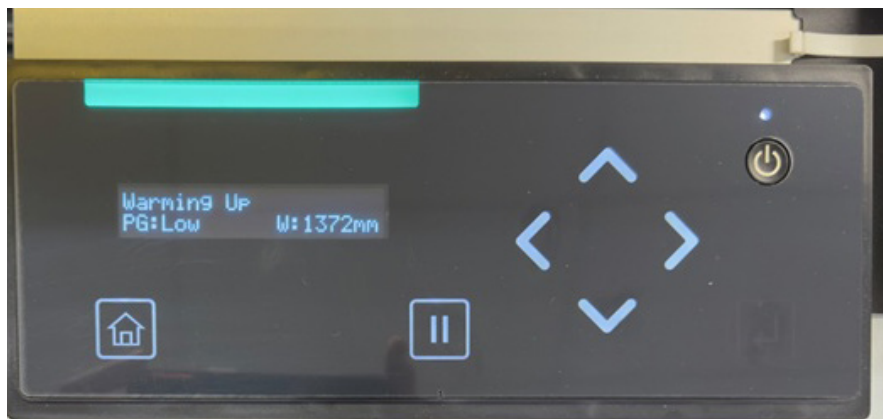
media characteristics, an improvement over the two-height options available on Mutoh's previous UV generation product. The new 2 mm height (positioned midway between the two heights offered on the ValueJet 1638UR) offers a better balance between keeping low graininess and preventing head strikes on challenging substrates.

- The media holder is positioned high on the device, virtually parallel to the printhead. This design significantly reduces media waste at the end of a roll compared to many devices where the media rolls are located low to the ground resulting in a longer distance from roll to printhead that typically results in greater waste.
- There is no media lifting aid available, which would have been a valuable addition, particularly for handling heavier or longer media rolls.
- Up to 15 media types can be classified for the device. New media presets can be created either directly at the control panel or via the Mutoh Status Monitor (MSM).
- The user interface does not support the cloning of stored media profiles nor the ability to share them among multiple devices which would be a time saving benefit. Currently, this must be done manually via a copy-paste action in File Explorer.
- The device supports a new motorized take-up unit that links to the print engine, operating only during active printing. This avoids any unnecessary wear on the motors, reduces stretch on the media, and lowers energy consumption. The take up reel has a maximum load limit of 30 kg, whereas the device accommodates media roll weights up to 40 kg. Affixing media to the take-up reel is a straightforward process and the unit can wind output either printed side in or printed side out.
- A pre-, platen-, and post-heater system ensures even and efficient drying of output, ready for lamination. Heater settings can be customized for each stored media profile.
- With the media roll length management system (Media Tracker) engaged, the operator can set the device to warn when there's insufficient media to complete a print, reducing the risk of partial print wastage.
- The automatic cutter is easy to engage. In the absence of a dedicated cut button, the operator presses the pause button followed by the enter button to initiate a cut. This process is not explained on the control panel and relies upon prior instruction to use it effectively.



Media Tracker function

DEVICE MANAGEMENT AND MONITORING



Two-line LED control panel

- The display features a two-line LED display with cursor keys, a home key, a pause button, and an enter button. Operators navigate the menu options using the cursors and enter button. While not intuitive for new users, the large buttons make navigation easier with practice.
- Positioned atop of the control panel, the signal LED bar lights red to indicate issues, accompanied by an audible alert that's easy to hear nearby.
- Mutoh's in-house developed VerteLith RIP is bundled with the device and can be installed on Windows platforms. Currently, there is no support for Apple or Linux systems.
- The device includes Mutoh's Status Monitor software (MSM) for web-based device monitoring and integration with VerteLith RIP.
- The VerteLith RIP interface is well organized and easy to use, offering a robust level of functionality.
- A dashboard view allows operators to monitor up to four devices connected to the RIP, displaying device status, ink levels, jobs in different stages of progress, and the loaded media type. By selecting a specific device, the user can view all jobs loaded in the queue.
- Job queue management is straightforward, with 19 control icon selections. Options include adding new jobs, move back to cutter device, copy, edit, repeat, nest, delete, RIP and preview, import/export and promote/demote jobs in the queue.
- Selecting one or multiple jobs opens a summary window displaying key job data. There is also an estimate ink consumption feature which provides a breakdown of ink usage in millilitres for single or multiple jobs.
- By choosing edit on a specific job or multiple jobs opens a 15-edit tab interface, with a large job preview of the job on the right and tab control items to the left. While intuitive to navigate (and would not pose any issues for a novice user), the viewing window size cannot be resized, which may limit visibility of the tab control items on smaller screens.
- Job edit tabs include printer profile, layout, colour management, colour balance, ink control, spot colour replacement, crop marks, grommets, tiling, clipping and trimming, step and repeat, print notes and summary.

- Profile creation is handled through a separate application rather than being embedded in the main RIP.
- Spot colour management is less straightforward. While the RIP includes preprogrammed PANTONE spot libraries, these cannot be adjusted. To create spot colour replacements, users must build their own custom spot colour library. Unfortunately, users cannot copy PANTONE colours from the default libraries into their custom libraries, rather each colour must be built manually. Users enter L*a*b* values, associate the spot with an alias (white, clear, cut contour, cut through) or CMY value. Patch sheets of the adjusted colour can be printed when programming the CMYK values, with the user choosing the variation steps for each of the four colours in steps from 1 to 9. The patch sheet is logically laid out for efficient colour matching.
- MSM is highly intuitive, offering extensive functionality to the remote user.
 - ° MSM's printer status tab displays key device information including current status, heater settings and actual temperatures, and ink levels. Here, jobs can be cancelled, paused, or cut, and a nozzle check can be initiated, as well.
 - o MSM's printer control tab enables operators to run cleaning routines, print test pages, initiate a maintenance task, or enter the device into long store mode.
 - o MSM's media and advanced settings tabs allow operators to configure advanced device settings and manage up to 15 media profiles. We would like to see the profile limit increased to enhance usability, especially given the device's key strength of reduced dry/curing temperatures, allowing for a wider range media to be supported.
 - o The Print history function offers detailed cost accounting, enabling operators to program ink, media, and other costs, and track them to individual job. They can also view the legacy costs for the device over set time periods. The feature is very easy to use and offers a quick way to get a good understanding of the device's profitability and operational efficiency.

MAINTENANCE AND INK



The AquaFuze inks come in 1-litre disposable ink packs.

- The ink packs are installed inside a removable hard plastic casing that mounts on top of the device. Separate chip cards are installed under the ink cartridges when a new supply is installed. The casings and chip cards prevent incorrect slot placement. The rationale for the separate chip cards, according to Mutoh, is that it avoids the ink packs from being classified as WEEE waste (which they would be if the chips were built into them), meaning there's no added cost burden to customers in relation to disposal.
- The ink pouches are easy to replace with hard casings designed for convenient handling. Each has handles for easy lifting and four clips around the sides that are unlatched to open for simple replacement. The device's sub tank system allows inks to be changed during printing.
- Partially used ink pouches that are purposely removed—for instance, when a long print run is anticipated—can be reinstalled later without losing accuracy in tracking the remaining ink amount. This requires the chip card to be removed at the same time as the partially used ink bag and replaced when the partially used bag is reinstalled.

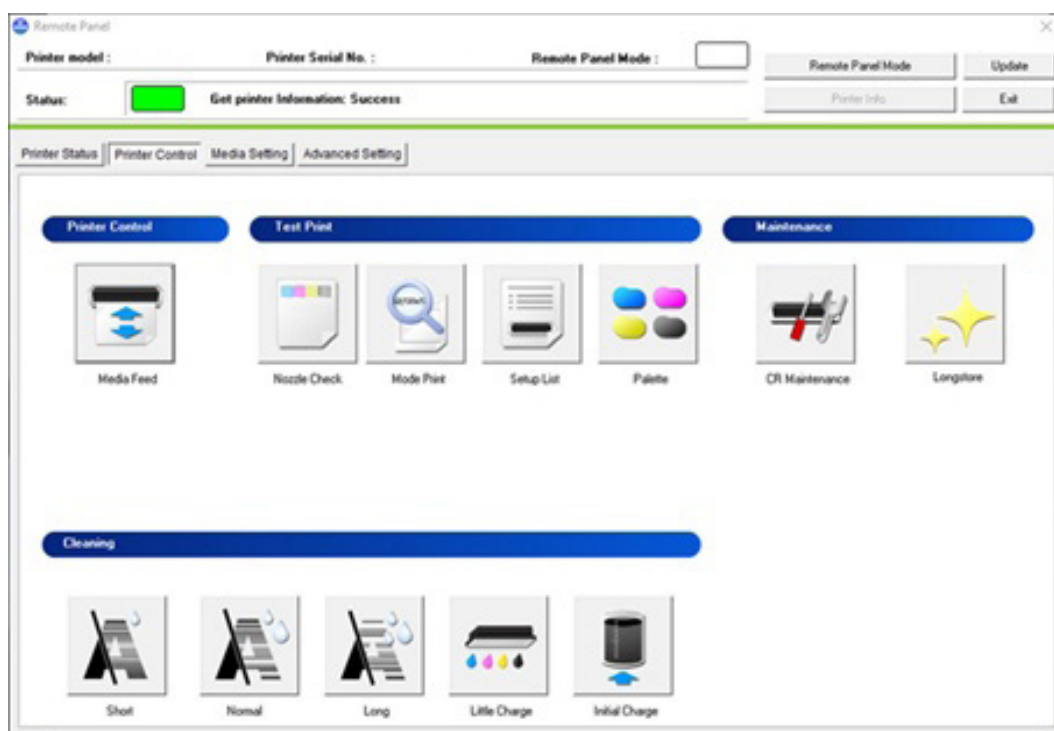


Mess-free waste ink replacement

- Unlike some devices, the full waste ink bottle does not need to be removed as the system includes a drainage tap. Users can place a container under the tap, open it, and drain the waste ink bottle, without handling the waste ink tube at all.
- Weekly maintenance is advised for the printhead, capping stations and wiper blade to remove residual ink.
- Maintenance tasks are straightforward, with the printhead and capping stations easily accessible. By selecting the maintenance menu item, the printhead moves to the left side for cleaning. Printheads can be wiped using an alcohol-soaked bud.
- The capping station is located to the right of the unit and remains accessible while the printhead is still stationed on the left. Residual ink around the stations can be cleaned with a bud, followed by applying alcohol cleaning fluid directly to the capping stations.
- Navigation to the maintenance menu is not intuitive, and the device lacks on-screen instructions or control panel guidance for these steps. However, Mutoh offers instructional videos on YouTube to support operators.



Easy access to cleaning areas such as the printhead



Remote access to cleaning procedures


SPEED

KEY FINDINGS

- The Mutoh HydrAton 1642 produced two A0 size targets in 14:19.73 on Avery Dennison MPI 3000 monomeric media, using the most productive Production (1200 x 1200dpi) setting.
- On MPI 1105 cast vinyl media, with our shorter 2-foot quality viewing assessment distance criteria, banding could be seen on the Production mode so the testing was run at the higher Quality (1200 x 1800dpi) resolution mode which took 17:17.05.
- On MPI 1105 cast vinyl, the device printed two targets in 27:35.45 seconds in the High Quality (1200 x 2400dpi) setting.
- NOTE: We were given access to an early firmware release of the device that was limited to printing at full carriage width Mutoh advise that firmware has now been released that allows for print width printing above the minimum of 900mm. Our testing is typically conducted with printers set to data width mode where possible to limit excess carriage travel. This results in our A0 size speed test file exacerbating the carriage wide limitation at the time versus competitors. The difference would be reduced significantly with the new firmware release.

To compare rival device performance visit bliQ WF

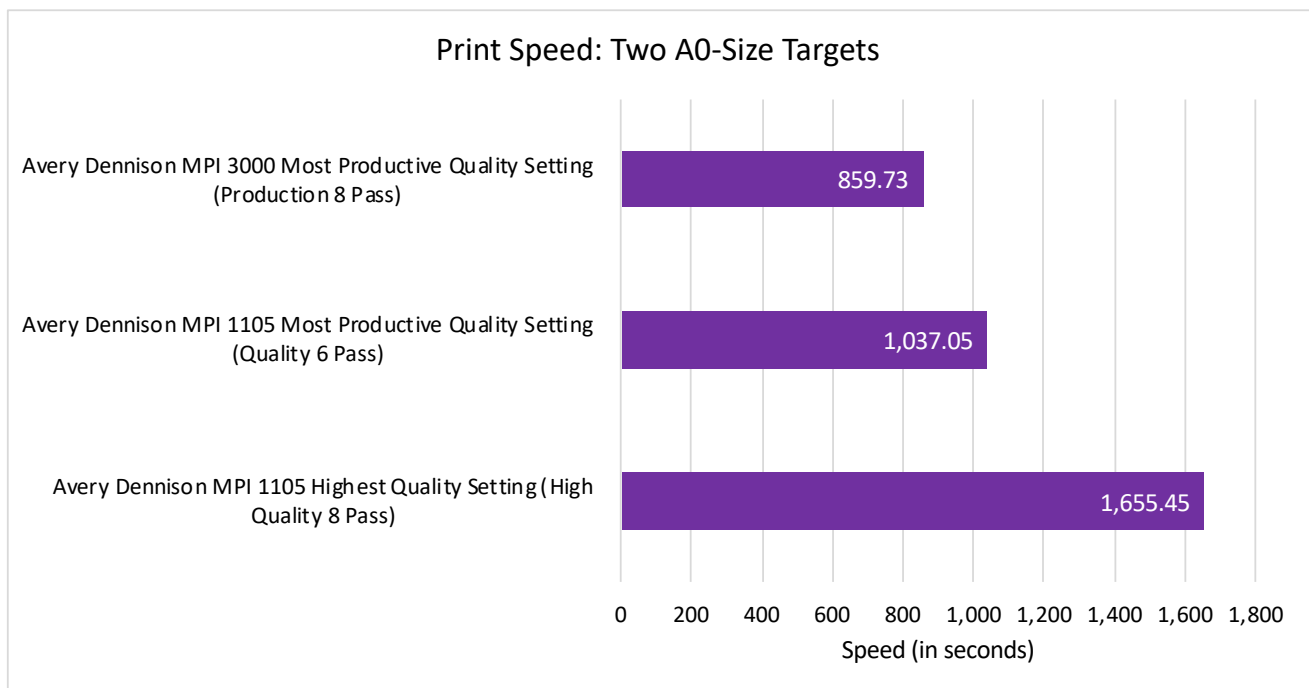
SPEED TEST ANALYSIS

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.

All Speed/Quality Settings Tested

	Avery Dennison MPI 3000	Avery Dennison MPI 1105
Most Productive	859.73	1,037.05
Highest Quality	N/A	1,655.45

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



Supporting Test Data

The unit was evaluated equipped with the AquaFuze ink set and VerteLith RIP at the manufacturer's Belgium facility during an intensive three-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 Mutoh EU 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.