

MUTOH



Wide/Grand Format Inkjet Certification Application Data Sheet

Wide/Grand Format Inkjet Supplier and System Name Here

Note: Certification is in accordance with IDEAlliance Wide/Grand Format Inkjet Certification Program

The IDEAlliance Print Properties Wide/Grand Format Inkjet Working Group has established a certification process for wide and grand format inkjet systems. The following information is intended to assist printers and customers in understanding the printing conditions and how they were achieved and/or to replicate these results on a similar system.

I. Manufacturer

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II. Product Name

Mutoh ValueJet® VJ-1638X
SAi FlexiPRINT® RIP Mutoh Edition USA Cloud
Mutoh Eco Ultra® Eco-Solvent Ink CMYK
Arlon® DPF 6000 XRP Self-Adhesive Vinyl Film

III. Overview

The Mutoh ValueJet® 1638X is a high-speed eco-solvent large format inkjet printer with a staggered dual-head design. It is 64 inches wide, and is used primarily for printing onto paper, canvas, plastic films and other flexible plastic materials and fabrics. Primary applications include indoor and outdoor retail and commercial signage, vehicle wraps, banners and displays, tradeshow graphics and other types of high-visibility high-impact commercial graphics. It is also well-suited for producing color press and prepress proofs, and fine art reproductions. It supports both CMYK and extended ink sets.

IV. System Components and Printing Procedure

As a first step, the SAi FlexiPRINT® RIP Mutoh Edition USA Cloud software must be configured with a media profile appropriate to the ink, media, and print mode selected for printing. For this test, the Mutoh ValueJet® VJ-1638X was configured to print at 720 x 1440 dpi in Quality Mode 4 High Speed Bidirectional, a common production print mode. Arlon® DPF 6000 XRP Self-Adhesive Vinyl Film was selected for printing, a popular media used for retail signage applications; and, the Mutoh Eco Ultra® Eco-Solvent CMYK ink set was selected and configured for CMYK x 2 mode (for optimal print speed, both heads are configured to print CMYK, doubling the number of active nozzles – this is by far the most common configuration for this printer in the field). The FlexiPRINT RIP software was used to produce the media profile, although the user would have the option to use a premade profile downloaded from [ftp.mutoh.com/#!/Printer Information and Manuals](http://ftp.mutoh.com/#!/Printer%20Information%20and%20Manuals) (or

included on the FlexiPRINT RIP software CD). For this test, a new media profile was made. The first step was to identify appropriate ink limits for the four primaries. This was accomplished using a chart printed from the FlexiPRINT RIP software (see user manual for details); this is a visual approximation. Next, the user must chose conventional linearization or G7 calibration (using optional software available from Mutoh); for this test we opted to use conventional linearization as this is currently the more common method practiced by our end-users. Following linearization (or calibration) an actual ICC profile is generated, again using the FlexiPRINT RIP software (although third-party profiling software is supported). Because this test required the printer to conform to CGATS21 CRPC6 and CRPC7 reference conditions, we opted to print an IT8.7/4 visual chart and perform all measurements with an X-Rite® i1 Pro-2 instrument and i1iO Gen-2 table set in M1 illuminant mode (as per CGATS recommendations). However, the FlexiPRINT RIP Mutoh Edition software supports numerous instruments, including the optional Mutoh SpectroVue VM-10 on-printer spectrophotometer. Once the profile was made, a second IT8.7/4 visual chart was printed and measured, and compared against the CGATS21 CRPC6 reference data downloaded from Color.org. Once we had confirmed compliance to CRPC6, the test forms were printed and submitted.

V. Finishing Procedures (Optional)

No finishing, beyond trimming the prints for shipping and a visual inspection was performed.

VI. Additional Data (Optional)

None.