

## AdvancedJET Series – AJ-740 & AJ-1000

### Pure Print Performance Upgrade Program

#### Frequently Asked Questions

Q. What is the key message for the AJ Pure Print Performance Upgrade?

A. Since the introduction of the award-winning SOLJET PRO III series featuring Roland Intelligent Pass Control technology, Roland has sought to make this feature available for AdvancedJET owners to enhance their capabilities. The patent-pending Roland Intelligent Pass Control technology is proven to bring higher performance and wider media compatibility to Roland printers. Increased productivity, enhanced image quality, versatility and ease of use truly differentiate Roland Intelligent Pass Control technology. The Pure Print Performance Upgrade is an essential addition to the AdvancedJET series and guarantees that Roland AJ owners will improve their throughput and quality to gain maximum results from their investment.

Q. What are some of the key features and benefits of the AJ Pure Print Performance Upgrade?

A. The AJ Pure Print Performance Upgrade offers several major enhancements designed to maximize image quality, productivity and versatility for the most demanding grand format printing applications.

1. *New Roland Intelligent Pass Control.* This feature was originally developed by Roland software engineers for the PRO III line. Now optimized and fully implemented in the AJ series, the new system for precisely controlling dot placement creates a series of patterns that ensures accuracy in filling in the smallest gaps between passes. The result is consistently smooth gradations and solid color fills with virtually no banding across a wide range of media.
2. *New printhead protection plates.* These new head protection plates are designed to prevent head strikes from media buckling during printing that could damage one or more heads.
3. *New media feed calibration adjustment during printing.* This new feature, part of the Firmware 4.0 update, enables adjustment of the media feed calibration setting on-the-fly while printing in case the tension changes from the start to the end of the print job or roll. This reduces the impact of banding caused by slight feeding changes and avoids restarting the print job.
4. *Roland VersaWorks 3.1 RIP software.* This powerful RIP software is based on the latest Adobe CPSI engine (3018) and includes essential features such as the Roland Color System for spot color matching, Variable Data Printing for customized job output, Max Impact preset for richer color contrast, and the new Roland Intelligent Pass Control Profiles for outstanding image quality and maximum productivity.
5. *Greater image quality at higher production speeds.* By using Roland Intelligent Pass Control in all print modes, image quality is enhanced, even in bi-directional printing. With Roland Intelligent Pass Control, Standard mode on banner media is up to 25% faster at 323 sfph.

6. *Faster print speeds across a wide range of coated and uncoated media:*

AJ-1000 Print Modes	Resolution	Print Speed
Billboard (AJ-1000)	360x180dpi (1 pass) Bi-Di	968 sfph (90.0 sq m/hr)
High Speed	360x180dpi (2 pass) Bi-Di	484 sfph (45.0 sq m/hr)
High Speed	360x180dpi (2 pass) Uni-Di	323 sfph (30.0 sq m/hr)
Standard 1	360x360 (3 pass) Bi-Di	323 sfph (30.0 sq m/hr)
Standard 1	360x360 (3 pass) Uni-Di	215 sfph (20.0 sq m/hr)
Standard 2	360x360 (4 pass) Bi-Di	258 sfph (24.0 sq m/hr)
Standard 2	360x360 (4 pass) Uni-Di	172 sfph (16.0 sq m/hr)
High Quality 1	360x720 (6 pass) Bi-Di	162 sfph (15.0 sq m/hr)
High Quality 1	360x720 (6 pass) Uni-Di	108 sfph (10.0 sq m/hr)
High Quality 2	360x720 (8 pass) Bi-Di	129 sfph (12.0 sq m/hr)
High Quality 2	360x720 (8 pass) Uni-Di	86 sfph (8.0 sq m/hr)
High Quality – Vinyl	720x720dpi (16 pass) Bi-Di	65 sfph (6.0 sq m/hr)
High Quality – Vinyl	720x720dpi (16 pass) Uni-Di	43 sfph (4.0 sq m/hr)
AJ-740 Print Modes	Resolution	Print Speed
Billboard	360x180dpi (1 pass) Bi-Di	872 sfph (81.0 sq m/hr)
High Speed	360x180dpi (2 pass) Bi-Di	474 sfph (44.0 sq m/hr)
High Speed	360x180dpi (2 pass) Uni-Di	301 sfph (28.0 sq m/hr)
Standard 1	360x360 (3 pass) Bi-Di	301 sfph (28.0 sq m/hr)
Standard 1	360x360 (3 pass) Uni-Di	194 sfph (18.0 sq m/hr)
Standard 2	360x360 (4 pass) Bi-Di	237 sfph (22.0 sq m/hr)
Standard 2	360x360 (4 pass) Uni-Di	151 sfph (14.0 sq m/hr)
High Quality 1	360x720 (6 pass) Bi-Di	140 sfph (13.0 sq m/hr)
High Quality 1	360x720 (6 pass) Uni-Di	97 sfph (9.0 sq m/hr)
High Quality 2	360x720 (8 pass) Bi-Di	129 sfph (11.0 sq m/hr)
High Quality 2	360x720 (8 pass) Uni-Di	86 sfph (7.0 sq m/hr)
High Quality – Vinyl	720x720dpi (16 pass) Bi-Di	54 sfph (5.0 sq m/hr)
High Quality – Vinyl	720x720dpi (16 pass) Uni-Di	32 sfph (3.0 sq m/hr)

Speed may vary based on print mode and media profiles

**Release Date:**

**Q. When will the AJ Pure Print Performance Upgrade be available?**

A. The AJ Pure Print Performance Upgrade is being announced on Feb 5, 2009 worldwide. Upgrade kits will begin shipping in early February 2009. Current AJ-740 and AJ-1000 printers can be sold to new customers knowing that they will also receive the Print Performance Upgrade outlined below at no charge. There is no reason to delay a purchase decision.

**Pure Print Performance Upgrade Program**

**Q. What is the AJ Pure Print Performance Upgrade program?**

A. As part of the AJ Pure Print Performance Upgrade Program Roland is introducing an upgrade kit that will be available for all existing AJ-740 & AJ-1000 owners. This kit consists of new head protection plates along with new downloadable firmware featuring Roland Intelligent Pass Control, the latest Roland VersaWorks 3.1 RIP software and new ICC media profiles. Once updated, the AJ series will print up to 25% faster in Standard mode on banner media while displaying superior image quality, smoother gradations and solid fills with virtually no banding.

Q. What is the cost of the Pure Print Performance Upgrade program and when will it be available?

A. The AJ Pure Print Performance Upgrade is free of charge for warranty AJ-1000 & AJ-740 owners in appreciation of their loyalty and support. Roland dealers are requested to contact their AJ customers in the U.S., Latin America and Canada. Customers should be informed of the AJ Pure Print Performance Upgrade kit availability starting February 5, 2009. Dealers should verify that their customer's AJ printers serial numbers for registration with Roland DGA.

Roland dealers will be able to place orders on RNet Pro for the AJ Pure Print Performance Upgrade kits. Dealers will be required to submit their customer's AJ registration information and serial number for each kit ordered. Once the dealer receives the Upgrade kits from Roland they should notify the customer and arrange for a service technician to go on-site to perform the upgrade.

Part # RDGA-AJUPGD-K - The kit contains the new printhead protection plates, installation instructions and the upgraded AJ firmware and VersaWorks software updater.

The direct link to Roland's webpage for the AJ Pure Print Performance Upgrade for end user information: <http://www.rolanddga.com/upgrade>

**General Information:**

Q. Which version of VersaWorks is needed to run the AJ series with Roland Intelligent Pass Control?

Roland VersaWorks 3.1.1 Existing AJ owners may update to the newer versions through online updates. However customers will still need to receive the firmware update and new ICC profiles through their Authorized Roland dealer when going on-site to install the head protection plates.

Q. Do I need new profiles if I am already using generic Roland or custom profiles?

A. Yes. In addition to upgrading the firmware to version 4.0 or later, new ICC profiles are required whether using Roland EcoXtreme or EcoXtreme LT inks. New profiles are needed because Intelligent Pass Control technology and VersaWorks 3.1.1 work together to enhance the image quality across all print modes. Only printers that feature version 4.0 of the firmware, VersaWorks 3.1.1 and new, updated ICC profiles will benefit from Roland Intelligent Pass Control features.

Q. Will I still be able to use the original Roland or my custom ICC profiles once I upgrade?

A. Yes. The new Roland Intelligent Pass Control supported profiles are added to any existing Non-RIPC profiles. The new Profiles have an RIPC prefix in front of the media name. For the sake of color consistency with prior print jobs, you can use your original profiles. We expect that once users see the improved print quality and speed, they will want to use the new Roland Intelligent Pass Control ICC profiles or create new profiles based on the new Media Profile templates.