iColor® Dye Sublimation Toner Upgrade Kit Instructions

Specifically for the iColor 500 & 600 Systems

The **iColor® Dye Sublimation Upgrade Kit** is just one of the many specialty cartridge sets that can be used in the iColor 500 or 600 Digital Color + White Transfer Media Printers. Instantly transform your iColor printer into a sublimation printer. The upgrade kit consists of 4 toner and 4 drum cartridges (CMYK) and is shipped in 8 separate boxes. Simply remove and store the standard cartridges and swap with the sublimation kit to instantly print and sublimate on coated materials.

Operating on the same application principles as standard ink sublimation systems, you must press onto white 100% polyester or sublimation coated materials for best results. 50/50 cotton poly blends may also be used for a lighter, vintage look. There is no white overprint option with sublimation, only CMYK prints are possible.

The **iColor® Dye Sublimation Upgrade Kit** has several unique advantages suited for a production environment:

1) Vastly faster print speeds: 35 pages per ***minute*** vs 34 pages per ***hour*** for ink (photo mode)
2) No clogged heads resulting from non-use. Toner based systems do not have this maintenance issue.
3) Longer expiration period
4) Much higher page yield: 5,000 pages standard toner vs 350 pages for starter ink

Please follow the steps below for the installation of the **iColor® Dye Sublimation Upgrade Kit**:

1. With the power off, open the lid of your **iColor®** printer and remove the standard toner and drum units. For the iColor 500 and 600, these should be removed as a toner/drum set. Do not disengage the toner from the drum. They should be stored in a cool, dark place. Never expose the drum to light for more than a few minutes.

2. Locate the black drum cartridge and open the box. Remove the orange seal tape and hard plastic inner seal and rest on a stable surface. Be careful not to scratch or touch the drum surface or print quality could be severely affected.

3. Locate the black toner cartridge and open the box. Remove the seal tape from the bottom of the cartridge. Lever the cartridge into the drum unit carefully, inserting the left side first, and then laying flat on the right. It should sit perfectly flush in the drum unit.

4. Once satisfied that the cartridges are together properly, push the blue handle forward all the way. This will lock the cartridges together and open the toner cartridge to allow the toner to flow down to the drum unit. Do not move the blue handle until it is aligned with the drum unit!

5. Once locked and fully engaged, install the black toner/drum into the front slot of your **iColor®** printer. Refer to the user's manual for your printer for further information regarding cartridge installation.

6. Repeat steps 2 – 5 for the yellow, magenta and cyan cartridges. Be sure to correctly match the toner and drum cartridge colors. Failure to do so will result in toner contamination.

7. The cartridges should be installed in 'A' configuration, where the black is in the front, followed by yellow, magenta and cyan in the rear.

Cyan (Back of Printer)
Magenta
Yellow
Black (Front of Printer)

8. Once all of the cartridges have been installed, power on your **iColor®** printer. You are now ready to print.

Please follow the steps below for printing with the **iColor® Dye Sublimation Upgrade Kit**:

1. The **iColor® Dye Sublimation Upgrade Kit** will come with an ICC print output profile which must be installed and used in order to achieve accurate colors once pressed to your substrate. Save the profile to a specific folder on your computer. Navigate to the file, right click and install. This profile will work with the **iColor® TransferRIP Software,** Photoshop, CorelDraw and other software capable of utilizing standard ICC profiles. Multiple profiles may be available at the time of purchase. Check with your dealer for updated information.

2. If printing from the **iColor® TransferRIP Software,** be sure to select the 'Black Toner Installed' profile and select 'A' configuration in the Color Mapping section. Select the paper size and load your image. In step 5, be sure to mirror print and select the proper ICC profile before printing. Refer to the user's manual for the **iColor® TransferRIP Software** for further information on using this software.

3. When printing from programs other than the **iColor® TransferRIP Software,** Color Handing should be set to allow your specific software package to handle colors. For example, in Photoshop set to 'Photoshop Manages Color'. Make sure you set the print driver to 'No Color Matching' under 'Color Management' and 'High Quality' under 'Job Options'. Be sure to mirror print and select the proper ICC profile before printing.

4. Place your sublimation media into the multipurpose tray of the **iColor®** printer, coated side up and print your image. **UniNet iColor® Sublimation Media** is suggested for best results. The printed image may appear to have imprecise colors but will be accurate on the substrate after the sublimation process.

5. For most applications, press at 380°F / 193°C with low pressure. The duration of the press depends on the substrate used. Refer to the matrix below for specific press times and peeling method.

Surface	Time	Temp	Press Pressure	Peeling	Notes
Coated Acrylic	60 Sec	380°F / 193°C	2 (low)	Hot	Immediately peel, then dunk in warm water for 1 min. Clean with STC9 solution to remove toner residue.
SubliBoard	60 Sec	380°F / 193°C	2 (low)	Hot	Immediately peel, then dunk in warm water for 1 min. Clean with STC9 solution to remove toner residue.
DynaSub / UniSub Metal	60 Sec	380°F / 193°C	2 (low)	Hot	Immediately peel, then dunk in warm water for 1 min. Clean with STC9 solution to remove toner residue.
Coated Ceramic	150 - 180 Sec	380°F / 193°C	2 (low)	Hot	Immediately peel, then dunk in warm water for 1 min. Clean with STC9 solution to remove toner residue.
Polyester garments and substrates	60 Sec	380°F / 193°C	2 (low)	Hot	Peel on heat press after10 seconds.

TIPS

Some substrates may require more or less press time, depending on the material used.

When pressing, a longer press duration will result in deeper and denser colors. Some testing may be required to achieve the desired result. Pressing for too long can cause blasting which results in an overexposed look.

In order to stop the sublimation process on hard surfaces, you must dunk the substrate in water or the image may start to blur and spread as the gasses rise.

For all hard surfaces, the use of UniNet STC9 cleaning solution is necessary to remove any toner residue that may have transferred over during the pressing process. Pour a small amount of the solution onto the substrate and rub with a paper towel. The residue will come off rather easily. The result will be a brighter, glossier image on your substrate. Be sure to wash off the cleaner from the substrate with soap and water before using. Not for use on fabrics or garments. Be sure to order a bottle with your kit if you plan to work with hard surfaces!

Overbled images can sublimate onto the plates of the heat press, so the use of kraft paper below and above your project is recommended to protect the plates of your heat press. Use of upper and lower covers is also suggested. Only use kraft paper made for heat press applications! The use of butcher paper or other kinds not specifically designed for heat transfer applications can cause the image to stick to the paper.

If you are using tape to secure your image to the substrate, make sure the tape is not covering any part of the transfer, as that will lead to inconsistent results. Heat resistant tape is suggested.

To see video instructions for iColor® Dye Sublimation Toner, visit www.icolorprint.com/video (Coming Soon)

Expand your printing capabilities using UniNet iColor® Printing Solutions line of specialty toners, which can be used individually or combined with your full color design, in any of the iColor® digital printers and presses to create vibrant images and stunning effects for a variety of markets.

iColor® Absolute® FluoToner - Colors that were once unachievable are now within reach using iColor® FluoToner. This ground-breaking toner technology allows users to create graphics that glow brightly under UV light. Use on everything from t-shirts and restaurant menus, to labels and signage to create unique and memorable items.

iColor® Absolute® White Toner - Absolute® White Toner allows users to create vibrant, bright white images on clear and dark substrates. With UniNet's patented Double White technology, a double layer of white is applied, producing rich image quality for applications such as cosmetics and beverage labels and more!

iColor® Absolute® Clear Toner - Absolute® Clear Toner is an advanced toner technology that enables spot satin gloss finishes. Users can flood an entire page for sheen and protection with a varnish effect, or use a spot application to make specific elements stand out. Using this transparent effect creates depth and contrast to further enhance the quality of printed output for use on invitations, product labels, menus, promotional materials, brochures, flyers, wine tags and more.

iColor® Absolute® Security Toner - UniNet security toner contains special RF fragments which can be read by a special reader to confirm authenticity. Most commonly used as a yellow cartridge, simply print a portion of your image in yellow for increased security and authenticity. The reader is only sold in conjunction with the toner kit and is keyed to a specific frequency.

June 2017 Revision - A newer version of this manual may be available at www.icolorprint.com/support