

# Image Transfer

## Sublimation



### **Transfer Brilliant, Full Colour Graphics onto Textiles, Mugs and other Sublimation Friendly Items**

Sublimation printing is an easy and effective way to introduce industry standard digital printing into the classroom environment. It is best suited to man-made fabrics containing polymer-based fibres, making it perfect for transferring designs to technical textiles or those that are difficult to dye under school conditions. A sublimation printing system offers versatility across the whole department with a wide range of opportunities to customise ready-made garments.

### **The Technology Explained**

Sublimation is when a solid changes into a gas and back to a solid without going through a liquid stage in between. Images for sublimation are printed onto special paper using a purpose-made sublimation printer. At this stage, the ink is a solid layer on top of the paper. This paper is then positioned on the surface to be printed (ink-side-down) within a heat press. The heat and pressure cause the ink to turn into gas which then transfers into the fibres. The gas cools, returns to a solid state, and forms a permanent bond with polymer fibres within the fabric. The result is an extremely durable and light-resistant print which is washable and requires no further finishing. A particular advantage is that Sublimation has little discernable effect on the weight and tactile properties of the fabric. The Sublimation Technology is perfect for incorporating STEM into your lessons!

SubliJet-HD technology from Sawgrass uses gel inks and has transformed the reliability and cost-effectiveness of Sublimation technology for schools. Gel inks do not dry out and clog print heads, they are clean to use and Sawgrass printers are virtually maintenance-free.

### **What can I do with my Sublimation System?**

Sublimation is the ideal system for creating original printed textiles and for applying digital images onto existing textile products including bags, clothing and accessories. TechSoft supply a huge range of sublimation-ready 'blank' items including phone pouches, 'T' shirts, mouse mats, mugs – even flip-flops (see pages 127-128)! Sublimation provides an easy to manage and versatile resource for enterprise and fund-raising projects. Students can quickly produce professional quality products that people will want to buy.

### **LIT or Sublimation?**

The two technologies have a lot in common but there are important differences that might help determine which is right for you. LIT is very versatile – it transfers images onto standard project materials and the LIT printers are fine for everyday paper printing. Sublimation offers brighter, more durable images, but the sublimation printers are not suitable for 'general' printing.

For textile printing, sublimation is by far the preferred option, but for a whole DT department LIT is more versatile. Still can't decide? TechSoft offer a combined package for LIT and Sublimation – see page 119.



## A4 Sawgrass Virtuoso SG400 Sublimation Printer



This A4 sublimation printer from Sawgrass provides high quality, vibrant images onto sublimation media. Using new SubliJet-HD technology, the SG400 uses gel-based inks and a special application system to eliminate blockages and prevent drying-up. This is particularly important in schools where machines may not be used for extended periods. Ink cartridges are supplied as sealed units for mess-free changing.

### Specifications

Size:	A4
Ink:	SubliJet-HD
Speed:	High Speed: 156/hr @ 600 x 600 dpi High Quality: 72/hr @ 600 x 600 dpi Adv. Photo: 22/hr @ 1200 x 1200 dpi
Resolution:	Up to 3600 x 1200 dpi
Interface:	USB or Ethernet
Weight:	10.5kg
Dimensions:	399(W) x 437(D) x 213(H)mm
Power Requirements:	240V, 13A Socket
Warranty:	1 Year Return to Base (UK Mainland & Ireland) 1 Year Return and Collect (Elsewhere)

## A3 Sawgrass Virtuoso SG800 Sublimation Printer



The Sawgrass Virtuoso SG800 allows both A3 and A4 print options with all the advantages of Sawgrass SubliJet-HD ink technology. Sharp, true colour images are delivered with impressive print speed. An A3 Swing Press will be required to take full advantage of this machine. (Please note that all SubliJet-HD printers are not suitable for general paper printing.)

### Specifications

Size:	A3
Ink:	SubliJet-HD
Speed:	High Speed: 156/hr @ 600 x 600 dpi High Quality: 72/hr @ 600 x 600 dpi Adv. Photo: 22/hr @ 1200 x 1200 dpi
Resolution:	Up to 1200 x 1200 dpi
Interface:	USB or Ethernet
Weight:	19.1kg
Dimensions:	540(W) x 552(D) x 259(H)mm
Power Requirements:	240V, 13A Socket
Warranty:	1 Year Return to Base (UK Mainland & Ireland) 1 Year Return and Collect (Elsewhere)

## Sublimation Starter Packs

### Sublimation Mug Business Starter Pack A4



A great way to produce professional quality, unique and desirable products for fund raising, enterprise or coursework projects. The pack contains the Sawgrass Virtuoso SG400 printer, CMYK ink cartridges, an ARC single mug press, 200 sheets of A4 transfer media & heat resistant tape and 36 sublimation mugs. Everything you need to start your mug business!

### Sublimation Textiles Starter Pack A4



Everything you need to set up your textiles sublimation business – all you need is imagination and the products you will customise (and sell!). The pack contains a Sawgrass Virtuoso SG400 printer, CMYK ink cartridges, A4 pink heat press, 200 sheets of A4 transfer media and heat resistant tape.

## Prices £\*

\*See Pricing Information on page <?>

### Sublimation Mug Business Starter Pack

<b>MP9-SUB-A4M</b>	Sublimation Mug Business Starter Pack Inc Sawgrass Virtuoso SG400 A4 printer with 4 sublimation cartridges, mug press, 36 mugs, 200 sheets A4 sublimation paper, heat resistant tape
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### Sublimation Textiles Starter Packs

<b>MP11-SUB-A4T</b>	Sublimation Textiles Starter Pack A4 Inc Sawgrass Virtuoso SG400 A4 printer with 4 sublimation cartridges, A4 pink heat press, 2 Teflon Sheets, 200 sheets A4 sublimation paper, heat resistant tape
<b>MP12-SUB-A3T</b>	Sublimation Textiles Starter Pack A3 (Clam Press) Inc Sawgrass Virtuoso SG800 A3 printer with 4 sublimation cartridges, clam/draw heat press (380x380mm), heat resistant tape, 200 sheets A3 sublimation paper
<b>MP11-SUB-A3T</b>	Sublimation Textiles Starter Pack A3 (Deep Swing Press) Inc Sawgrass Virtuoso SG800 A3 printer with 4 sublimation cartridges, deep swing press (380x500mm), 2 Teflon Sheets, 200 sheets A3 sublimation paper, heat resistant tape

### Sublimation Full Starter Packs

<b>MP11-SUB-A4F</b>	Sublimation Full Starter Pack A4 Inc Sawgrass Virtuoso SG400 A4 printer with 4 sublimation cartridges, A4 pink heat press, 2 Teflon Sheets, ARC mug press, 200 sheets A4 sublimation paper, heat resistant tape
<b>MP12-SUB-A3F</b>	Sublimation Full Starter Pack A3 (Clam Press) Inc Sawgrass Virtuoso SG800 A3 printer with 4 sublimation cartridges, clam/draw heat press (380x380mm), heat resistant tape, ARC mug press, 200 sheets A3 sublimation paper
<b>MP11-SUB-A3F</b>	Sublimation Full Starter Pack A3 (Deep Swing Press) Inc Sawgrass Virtuoso SG800 A3 printer with 4 sublimation cartridges, deep swing press (380x500mm), 2 Teflon Sheets, ARC mug press, 200 sheets A3 sublimation paper, heat resistant tape

### Sublimation Printers

<b>SUBM-A4-SG400</b>	Sawgrass Virtuoso SG400 A4 Sublimation Printer with 4 sublimation cartridges (42ml black, 29ml colours)
<b>SUBM-A3-SG800</b>	Sawgrass Virtuoso SG800 A3 Sublimation Printer with 4 sublimation cartridges (75ml black, 68ml colours)

### Heat Presses

For heat presses see pages 122-123.

### Materials and Accessories

For our full range of materials and accessories see pages 124 to 128.