Digital Heat Transfer Printing (mainly T-shirt printing) by Oki Printers and Recommended Media

This document describes appropriate media, printer driver settings and other helpful information for heat transfer printing by OKI printers; C920WT, C711WT and C831-TS.

Information is listed by media vendor. The transfer and specialty media's included here have been tested to understand how well they work in OKI printers. Under the right conditions, and especially the correct media weight settings, these media types should run consistently without jams or print quality problems.

Additional Media on the Market:

There are many additional brands and types of media on the market, they need to be used with caution. It is always recommended to test some sheets, and contact the manufacturer for specific information on how best to use these media types.

Caution:

Note that improper usage of these various types of media can damage printers, and may not be covered under the product warranty.

What is heat transfer printing?

Heat transfer printing is the process of applying heat-applied materials to various items (i.e., substrates) with a heat press. Heat-applied materials contain a heat-sensitive adhesive on one side; when heat is applied by a heat press to the material, the material adheres to the substrate to which it is being applied. The end result is a decorated garment. For some terminology, refer to the dictionary at the bottom.

The illustration below shows the concept of transfer printing. Methods/steps are different depending on the media. Watch a couple of YouTube videos (links in the table below). They give you the idea.

Notes:

1) Media is listed in no particular order, and this is not a comprehensive list of everything used with our products.
2) Settings shown are starting points only. This media is susceptible to changes in environment (especially humidity) as are laser/LED printers, and so small adjustments may be needed.
3) All printing is recommended in straight-thru fashion - MP Tray to face-up exit.
4) YouTube videos are only for your reference because non-OKI printers and Oki printers that are not 920WT/711WT/831-TS are used. Do not share videos with your customers.

---

Forever - http://www.forever-OTS.com/

Forever site has a lot of detail on printing processes and settings, in addition to detailed information on pressing. The No Cut paper does need to have the edge frame (not around the image) trimmed, so there are additional steps involved, and there are foil and flocking products which work with all the textile papers. Lots of flexibility to create spectacular designs but with lots of processing steps.
<table>
<thead>
<tr>
<th>Laser Light No Cut</th>
<th>One-Step Self Weeding Transfer</th>
<th>Light colored textiles</th>
<th>Yes</th>
<th>Mirror</th>
<th>MP-Tray</th>
<th>Label1</th>
<th>1Step_LtXfer</th>
<th>1st press - 15s</th>
<th>2nd press - 30s</th>
<th>One Press Temp for all Steps</th>
<th>The first step is transfer to garment, last step is finishing (for washability). Not as simple as Neenah Image Clip, but good results with OKI toners. <a href="http://www.youtube.com/watch?v=Md6j7YK2Rso">www.youtube.com/watch?v=Md6j7YK2Rso</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Dark No Cut</td>
<td>Two-Step, Self Weeding Transfer</td>
<td>Dark colored garments</td>
<td>Yes</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>UltraHeavy2</td>
<td>2Step_DkXfer (if not using white in design)</td>
<td>1st press - 60s</td>
<td>2nd press - 30s</td>
<td>One Press Temp for all Steps</td>
<td>Not a lot of differences between this and the more popular No Cut/Low Temp (this media requires higher press temperatures) <a href="http://www.youtube.com/watch?v=gQqNAZQyTgEq">www.youtube.com/watch?v=gQqNAZQyTgEq</a></td>
</tr>
<tr>
<td>Laser Dark No Cut /Low Temp</td>
<td>Two-Step, Self Weeding Transfer</td>
<td>Dark colored garments</td>
<td>Yes</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>Trans</td>
<td>Trans (if not using white in design)</td>
<td>1st press - 120s</td>
<td>2nd press - 30s</td>
<td>3rd press - 10s</td>
<td>One Press Temp for all Steps (if using cotton)</td>
</tr>
<tr>
<td>Multi-Trans</td>
<td>One-Step Self Weeding Transfer</td>
<td>Ceramics, aluminum, wood, mouse pads, etc.</td>
<td>Yes</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>Trans</td>
<td>Label2</td>
<td>One press - 180s</td>
<td></td>
<td></td>
<td>Many different applications listed for different surfaces with specific instructions for each</td>
</tr>
</tbody>
</table>

**Joto - [https://www.jotopaper.com/](http://www.jotopaper.com/)**

Joto site has videos and good pdf process documents to guide print and transfer process. Lists our printers as Recommended.

<table>
<thead>
<tr>
<th>Media Names</th>
<th>Transfer Sheet Type</th>
<th>Appropriate materials to print on</th>
<th>Self-Weeding Media ?</th>
<th>Print style</th>
<th>Printer Tray to be used</th>
<th>Recommended Printer Driver Settings</th>
<th>Heat Press Times</th>
<th>Summary / Notes / Web pages for reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL100/120/135/140</td>
<td>Single-Step Transfer</td>
<td>White and light colored textiles</td>
<td>Trimming required</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>HVY/Label1</td>
<td>1Step_LtXfer</td>
<td>One press - 25s</td>
</tr>
<tr>
<td>CL Trim Free</td>
<td>One-Step Self Weeding Transfer</td>
<td>Light colored textiles</td>
<td>Yes</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>HVY/Label1</td>
<td>2Step_DkXfer</td>
<td>One press - 30s</td>
</tr>
<tr>
<td>Cl WaterSlide</td>
<td>Single-Step Transfer</td>
<td>Candles, glass, and decorated ceramics</td>
<td>Trimming required</td>
<td>No Mirror</td>
<td>MP-Tray</td>
<td>Trans</td>
<td>Trans</td>
<td>no press</td>
</tr>
</tbody>
</table>


Magic touch USA site has videos to guide heat transfer process, but provides little information on print process and settings. The global website has more information on printing, feeding and recommended settings.

<table>
<thead>
<tr>
<th>Media Names</th>
<th>Transfer Sheet Type</th>
<th>Appropriate materials to print on</th>
<th>Self-Weeding Media ?</th>
<th>Print style</th>
<th>Printer Tray to be used</th>
<th>Recommended Printer Driver Settings</th>
<th>Heat Press Times</th>
<th>Summary / Notes / Web pages for reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL Trim Free</td>
<td>One-Step Self Weeding Transfer</td>
<td>Light colored textiles</td>
<td>Yes</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>HVY/Label1</td>
<td>2Step_DkXfer</td>
<td>One press - 30s</td>
</tr>
<tr>
<td>Cl WaterSlide</td>
<td>Single-Step Transfer</td>
<td>Candles, glass, and decorated ceramics</td>
<td>Trimming required</td>
<td>No Mirror</td>
<td>MP-Tray</td>
<td>Trans</td>
<td>Trans</td>
<td>no press</td>
</tr>
</tbody>
</table>
### TTC

**Transfer Sheet Type**: Single-Step Transfer  
**Appropriate materials to print on**: White and light colored textiles  
**Self-Weeding Media**: Trimming required  
**Print style**: Mirror  
**Printer Tray to be used**: MP-Tray  
**Driver Settings**: HVY/Label1  
**Recommended Printer**: 1Step_LtXfer  
**Heat Press Times**: One press - 10s  
**Summary / Notes**: A single step paper that will leave a haze around the design, similar to Neenah EZP, Joto CL media.  
**Benefit**: Fast print and transfer time  
**Link**: [YouTube video](https://www.youtube.com/watch?v=iiYW-reo7h2w)

### WOW

**Transfer Sheet Type**: Two-Step, Self Weeding Transfer  
**Appropriate materials to print on**: Dark colored garments  
**Self-Weeding Media**: Yes  
**Print style**: Mirror  
**Printer Tray to be used**: MP-Tray  
**Driver Settings**: Label1  
**Recommended Printer**: 2Step_DkXfer  
**Heat Press Times**: 1st press - 40s  
2nd press - 5s  
3rd press - 10s  
**Summary / Notes**: Recommended for CP211WT. Similar to Neenah ImageClip Dark, Forever Laser Dark No Cut.  
**Benefit**: Fast final transfer / needs third step with finishing sheet  
**Link**: [YouTube video](https://www.youtube.com/watch?v=Nr7YoJrr-a8)

### CPM

**Transfer Sheet Type**: Single-Step Transfer  
**Appropriate materials to print on**: Light colored ceramics, plastics  
**Self-Weeding Media**: Trimming may be needed  
**Print style**: Mirror  
**Printer Tray to be used**: MP-Tray  
**Driver Settings**: Medium  
**Recommended Printer**: Medium  
**Heat Press Times**: One press - 30s  
**Summary / Notes**: Ceramic Plastic Metal. Single step transfer with sponge pad / spray  
**Link**: [YouTube video](https://www.youtube.com/watch?v=OysTR1085kY)

### Neenah - [http://www.neenahpaper.com/](http://www.neenahpaper.com/)

We have been working with Neenah on media for many years and they have made several formulation changes to accommodate our print engines. Their website has lots of instructions on transfer/pressing, but minimal information on print settings. ISW Inc. provides information on print settings for the Neenah papers.

<table>
<thead>
<tr>
<th>Media Names</th>
<th>Transfer Sheet Type</th>
<th>Appropriate materials to print on</th>
<th>Self-Weeding Media?</th>
<th>Print style</th>
<th>Printer Tray to be used</th>
<th>Recommended Printer</th>
<th>Driver Settings</th>
<th>Heat Press Times</th>
<th>Summary / Notes / Web pages for reference</th>
</tr>
</thead>
</table>
| Techni-Print EZP | Single-Step Transfer | White and light colored textiles | Trimming required | Mirror | MP-Tray | HVY/Label1 | 1Step_LtXfer | One press - 30s | A single step paper that will leave a haze around the design, similar to Joto CL.  
**Benefit**: Fast print and transfer time  
**Link**: [YouTube video](https://www.youtube.com/watch?v=sLXX8B-BjAIU) |
| Image Clip Laser Dark | Two-Step, Self Weeding Transfer | Dark colored garments | Yes | Mirror | MP-Tray | Heavy | 2Step_DkXfer (if not using white in design) | 1st press - 20s  
2nd press - 25s  
Different press temps | This media has been tested extensively with Oki products.  
**Benefit - good quality, but need temp adjustments (these take lots of time or require a second press).**  
**Link**: [YouTube video](https://www.youtube.com/watch?v=PpiE1_ZIbKI) |
| Image Clip Laser Light | Two-Step, Self Weeding Transfer | Light colored garments | Yes | Mirror | MP-Tray | Heavy | 2Step_LtXfer | 1st press - 20s  
2nd press - 30s  
Different press temps | This media has been tested extensively with Oki products.  
**Benefit - good quality, but need temp adjustments (these take lots of time or require a second press).**  
**Link**: [YouTube video](https://www.youtube.com/watch?v=vKPeL2_zBlI) |
| LaserOne Opaque | Single Step/trim | Dark fabric, leather, mouse pads | Trimming required | No Mirror | MP-Tray | UltraHeavy3 | 1Step_Heavy | One press - 30s | This is white film that gets printed on/pressed. Leaves heavy plastic feel for t-shirts/ many times used on other surfaces.  
Whatever gets trimmed, gets printed.  
**Link**: [YouTube video](https://www.youtube.com/watch?v=5mLOqAY8YTM) (This video is 15 minutes.) |

### One Step - [http://www.onesteppapers.com/](http://www.onesteppapers.com/)

OneStep site has good pdf process documents to guide print and transfer process. Lists our printers, and provides settings. This paper is more popular in Latin America, but is also carried by small independent distributors in US.

<table>
<thead>
<tr>
<th>Media Names</th>
<th>Transfer Sheet Type</th>
<th>Appropriate materials to print on</th>
<th>Self-Weeding Media?</th>
<th>Print style</th>
<th>Printer Tray to be used</th>
<th>Recommended Printer</th>
<th>Driver Settings</th>
<th>Heat Press Times</th>
<th>Summary / Notes / Web pages for reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Name</td>
<td>Transfer Sheet Type</td>
<td>Appropriate materials to print on</td>
<td>Self-Weeding Media?</td>
<td>Print style</td>
<td>Printer Tray to be used</td>
<td>Recommended Printer Driver Settings</td>
<td>Heat Press Times</td>
<td>Summary / Notes / Web pages for reference</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------</td>
<td>-----------------------------------</td>
<td>---------------------</td>
<td>-------------</td>
<td>-------------------------</td>
<td>-------------------------------------</td>
<td>------------------</td>
<td>----------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>HiTemp Plus / Premium</td>
<td>Single-Step Transfer</td>
<td>White and light colored textiles</td>
<td>Trimming required</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>Label1/Label2</td>
<td>1 Step_LtXfer</td>
<td>Premium paper has a heavier transfer sheet to help eliminate jams (not an issue with the straight thru paper path). Benefit - Simple / inexpensive single step print/trim paper. <a href="http://www.youtube.com/watch?v=EM5yqzQS-k4">www.youtube.com/watch?v=EM5yqzQS-k4</a></td>
<td></td>
</tr>
<tr>
<td>HiTemp Opaque</td>
<td>Single-Step Transfer on white film</td>
<td>Dark colored garments</td>
<td>Trimming required</td>
<td>No Mirror</td>
<td>MP-Tray</td>
<td>Labels2</td>
<td>1 Step_Heavy</td>
<td>Similar to Neenah LaserOne Opaque. Print on white film, trim, peel from backing sheet and transfer to shirt. <a href="http://www.onesteppapers.com/docs/hitempplusopaque.pdf">http://www.onesteppapers.com/docs/hitempplusopaque.pdf</a></td>
<td></td>
</tr>
<tr>
<td>Laser EZ Peel</td>
<td>Two-Step, Self Weeding Transfer</td>
<td>Dark colored garments</td>
<td>Yes</td>
<td>Mirror</td>
<td>MP-Tray</td>
<td>Trans (if not using white in design)</td>
<td>1 Step_LtXfer</td>
<td>This media is a rebranded version of Forever Laser Dark No Cut / LoTemp. The print sheet is film (not paper). When first printed (without the finishing step) the output is high gloss. Benefit - high quality, but long press times and surfaces other than cotton need temp adjustments (these take lots of time or require a second press). <a href="http://pantograms.com/t-shirt-printing/">http://pantograms.com/t-shirt-printing/</a></td>
<td></td>
</tr>
</tbody>
</table>

**Dictionary**

**Heat Press**
A heat press is a machine engineered to imprint a design or graphic on a substrate, such as a t-shirt, with the application of heat and pressure for a preset period of time. While heat presses are often used to apply designs to fabrics, they can also be used to imprint designs on mugs, plates, jigsaw puzzles, and other products.

**Transfer paper**
Transfer paper is used in textiles and arts & crafts projects. Often, an ink-jet or other printer is used to print an image on the paper. Then a heat press can transfer the image onto clothing, canvas, or other surface. Transfer paper is used in creating iron-ons.

**Self-Weeding**
Self-weeding transfer paper is a laser transfer paper that allows you to skip the hassle of trimming, also known as weeding, around your image. This type of paper transfers only the image you want with no overprint.

**Heat Press Times**
The amount of time, in seconds, that heat must be applied to the design sheet/T-shirt. The number and length of heat application differ depending on the media type.