Rampage Device Notes

Creo Spectrum/Spectrum Trendsetter

Setup

To setup the Creo Spectrum/Trendsetter refer to the Manual which ships with the device. To connect the Rampage Shooter, connect the supplied interface cable from the back of the Rampage Shooter to the back of the Creo unit. After connecting the necessary cables from the Rampage Shooter to the Creo Spectrum/Trendsetter, follow these steps to get the Shooter running with the Creo Spectrum/Trendsetter. If your Rampage PC has not been setup, follow the detailed Rampage Creo Spectrum Install Notes.

1. Remove DLLs

You will need to remove two files. They are located in "**System Volume -> RSI -> Ramout ->**" `Ctpin.dll` and `Ctprip.dll`

2. Edit the Creo BEGIN.INF file

Open the BEGIN.INF file in "**System Volume -> Print Console -> Bin**". The following lines should be edited to look like the text below. The text in **bold** is what needs to be added or changed.

```
# the following line should be uncommented to start the spool folder (hot
folder) input
#"spoolers /a /h /l /p /s" /unique /newconsole /min /exit 0
#from platesetter version
splfold /unique /noconsole /min /exit 0
# the following lines should be uncommented to start the simulator
#startsim.bat /unique recorder /newconsole /nowatch
# all of the following lines must be uncommented!
#\allegro\allegro4.exe /cd "\allegro" /unique /newconsole /min /exit 0
printconsole /unique /newconsole /exit 0 /master /quit
# the following lines should be uncommented to start the sample RIP
#samplrip /unique /newconsole /min /exit 0
# the following line should be uncommented to start the Heidelberg web prepress
interface
#"ghfs 1 \PrintConsole\scripts\ftphot.cfg" /unique /noconsole /min /exit 0
"\rsi\ramout\rampage -o -creo" /unique /newconsole /exit 0
#ctpws /unique /newconsole /exit 0 /master /quit
```

3. Edit file in Registry

A file in the registry needs to be changed. Run Regedt. Go to **Software -> Creo -> Print Console -> V1.0 -> Allegro**. In the window menu, **Edit ->**

Add value. Value Name: `FolderDir1`, Data Type: `REG_SZ`. Click OK. String: `D:\spool\folder\todo1` (you need to input the correct path name to this folder).

4. Set up the Print Console:

There are four buttons in the main window of Print Console:

`Status` - shows the state of the device
`Queues` - shows pending and processed jobs
`Attention` - flashes red when an alert message is sent from the device
`History` - shows all messages coming from the device

Follow the steps below to setup the Print Console application on the Creo Shooter. Output Media & Print Setup

1. In **History**, you will find some information to help you set up Output Media and Print Setups.
   Device Resolution - Resolution that your device can plot.
   Device Medium - Media types that are set up by the Creo installer.
   Device Proof Format - Sizes that are available when configuring output media, also set up by the Creo Installer
2. In Print Console, go to **`Configuration`** -> **`Device Media`**. This should list the same items as Device Medium in **`History`**.
3. In Print Console, go to **`Configuration`** -> **`Output Media`**. This is where you create your different setups. Try to keep the names simple, no spaces or illegal characters (8up_plate, 4up_proof). Choose the correct Device Medium and Device Proof Format (when setting up media for proofs). When setting up for a plate, you must input the correct size of the plate.
4. In Print Console, go to **`Configuration`** -> **`Print Setups`**. This is where you define names in your PPD. Again, keep it simple. The name has to be different than your Output Media name so add "_su" after the output media name. Choose the Output Medium name you set up, Rip name is Rampage Shooter. Data format is Composite Postscript. Check '**Scan for Output Media Name**' so Print Console won't use the default print setup medium. For proofs, you must go into separation setup and click "Add Process". This does not need to be done when outputting plates. **When outputting proofs, spot colors are not supported at this time. Auto Approve is not recommended at this time**.
5. After doing all your Print Setups, you must generate a PPD. Go to **`Configuration`** -> **`Generate PPD`**. Save the file into "Rampage Master Volume -> Rampage -> System Preferences -> Creo". You will use the Print Setups in your Profiles.

5. Verify Administrator Permissions

For Rampage, you will need to verify the current user's permissions to be the same as the Administrator's. In Administrator Tools —> User Manager, verify that the current user (usually 'ctp operator') has Administrator permissions.

6. Update the Rampage Folder

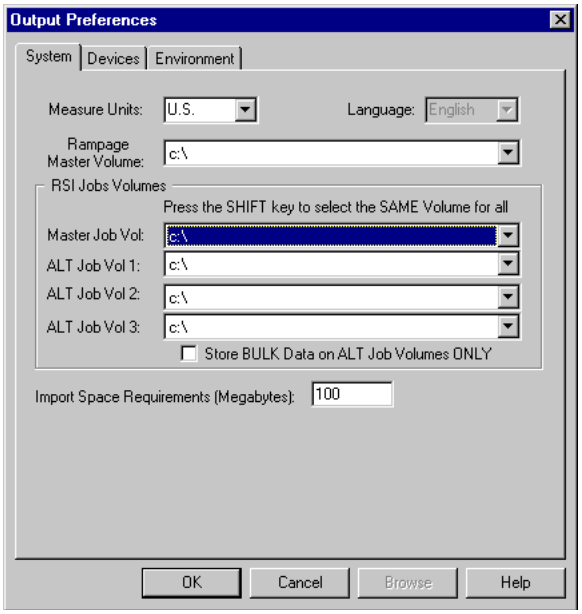
The first step involves setting up the Rampage folder on the server.

1. Open the Rampage folder on the server.

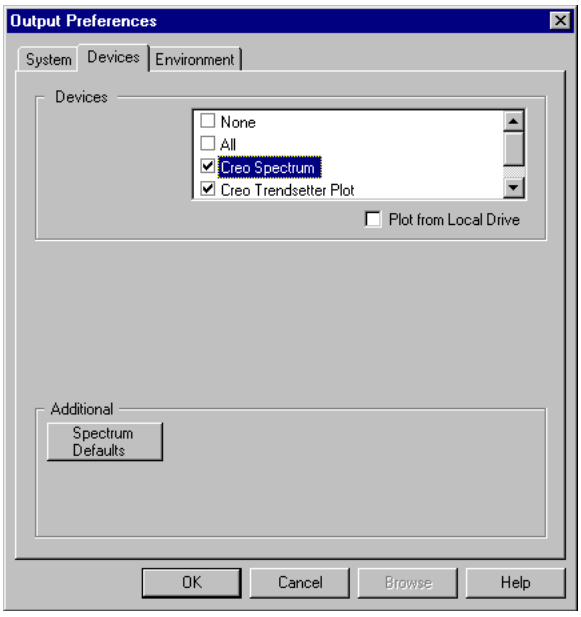
2. Open the System Preferences folder in the Rampage folder.
3. Open the Devices (Disabled) folder in System Preferences.
4. If you have only a Creo Spectrum, drag the **Creo Spectrum** file from the Devices (Disabled) folder to the Devices folder. If you have the dual Creo Spectrum/Trendsetter, move both the **Creo Spectrum** file and the **Creo Trendsetter Plot** file. If you can't find either file in the Devices (Disabled) folder, duplicate an existing file in the Devices folder and rename it.
5. Restart the Rampage Client application.

7. Set Preferences on the Shooter

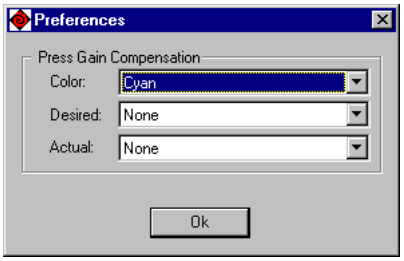
Now you need to set up the System and Devices tabs in the Output application. Open the Output application and select Preferences from the Edit menu.



If you already have a Rampage RIP installed, set up the System tab on the Creo Spectrum/Trendsetter shooter to match the System tab on the Rampage RIP. If this is the first Rampage PC you have installed, the Rampage Master Volume should point to the server volume that holds the Rampage folder. The four Job Volumes should point to the location of the RIPed data. Now switch to the Devices tab. The Preferences window will change to the window below.



If you have a Creo Spectrum/Trendsetter combination, you should check both the **Creo Spectrum** and the **Creo Trendsetter Plot**. If you have only a Creo Spectrum, check only the **Creo Spectrum** device. After checking the correct device(s), press the Spectrum Defaults button. The Spectrum Defaults button will open the Spectrum Preferences tab displayed below. You must select this once for set up. You do not have to choose any Desired or Actual tables at this time.



Press OK twice, to save changes. For a description of all the settings in the dialog, see the section Shooter Device Settings later in this document.

8. Things to Remember

- Launch the Rampage Shooter from the desktop icon only if you are changing the Rampage Master Volume for the Shooter.
- Never exit the Rampage Shooter if you have not started it from the desktop icon. When you exit the Creo software, the Rampage Shooter will exit automatically.
- The Rampage Shooter, after registering with the Creo workstation software, will stay in ‘offline’ mode. Don’t switch Rampage Shooter ‘on-line’ until you’re sure that the Creo workstation software has done all initialization steps and is ready to accept jobs. Submitting jobs to the plot queue while initialization is still in progress will cause plate handling to fail, and all subsequent jobs will need to be removed from the plot queue and resubmitted after complete cycle of power.

- At this time, spot colors are not supported when proofing. If you want to see the spot colors in a job, you must simulate them to process.
- Tiling is not supported at this time.

Operation

1. On Shooter, launch Print Console, this will automatically launch the shooter application.
2. Before turning Rampage on-line, you must check **History** to make sure "**Device Ready**" has been displayed and it is online in the **Status** window.
3. When making Proofs, use a Ramproof Device Profile. Choose the **Creo Spectrum** output device, select PPD and Print Setup.
4. When making Plates, add file to the Plot Queue and modify output parameters. Make sure **Creo Trendsetter Plot** for output device is selected, choose the correct Nickname and plate size you will be using. When picking plate size, make sure you choose a print setup you created in Print Console.
5. When Rampage shooter displays the message in the status window “Waiting for submit response”, go to Print Console, Queues -> Pending you may have to change the media if the correct one is not showing and then approve file. To change the media, right click on the file and go to Properties. Select the correct media. To approve a file, right click on the file and go to Approve.
6. Follow any message that might come up on the shooter for loading proof or plate.

Device Information

`Plotting Resolution`

0800 DPI
1200 DPI
1600 DPI
2400 DPI
3200 DPI

`Media Sizes`

Variable media size between 394mm X 330mm (15.5" X 13") minimum and 813mm X 1118mm (32" X 44") maximum. Maximum imagable are will vary depending on the size of media used. For the 813mm X 1118 (32" X 44") media size, the maximum imagable area is 800mm X 1112mm (31.5" X 43.8").

On installation, the system will be configured with the plate, proof and film sizes you will use.

Screening

Rampage RCS Dot Shape

The RCS dot shape comes standard with this device. The Rampage RCS dot shape is a round-square-round dot which is unrotated. The RCS dot shape contains five screen angles: 00°, 15°, 30°, 45° and 75°. The values listed below are the RCS line screens at the corresponding output resolution.

800	1200	1600	2400	3200	Rotation
35	50	70	105	140	0.0°
45	65	90	133	175	0.0°
47	70	95	140	190	0.0°
50	75	100	150	200	0.0°
55	85	110	175	200	0.0°
65	100	120	190	235	0.0°
70	110	133	200	265	0.0°
80	120	150	250	300	0.0°
90	133	175	265	330	0.0°

Rampage Standard Dot Shape

The Standard dot shape comes standard with this device. The Rampage Standard dot shape is a round-square-round dot which is rotated. The Standard dot shape contains five screen angles: 00°, 15°, 30°, 45° and 75°. Each angle is additionally rotated depending on the line screen listed below. The values listed below are the Standard line screens at the corresponding output resolution.

800	1200	1800	2400	3000	Rotation
20	45	65	90	110	-5.5°
25	50	75	100	130	-10.7°
27	55	80	110	138	-9.8°
30	60	90	120	150	-7.3°
33	65	100	133	165	-6.6°
37	75	110	150	185	-7.3°
45	90	133	175	220	-7.5°
50	100	150	200	250	6.6°
55	110	165	220	275	-7.3°
60	120	175	240	300	-7.3°
65	133	200	265	330	-7.5°
75	150	225	300	375	-9.4°

Rampage Elliptical Dot Shape

The Elliptical dot shape is an option which can be purchased for an additional charge. The Rampage Elliptical dot shape is an elliptical dot which is rotated. The Elliptical dot shape contains five screen angles: 00°, 15°, 30°, 45° and 75°. Each angle is additionally rotated depending on the line screen listed below. The values listed below are the Elliptical line screens at the corresponding output resolution.

800	1200	1800	2400	3000	Rotation
20	45	65	90	110	-5.5°
25	50	75	100	130	-10.7°
27	55	80	110	138	-9.8°
30	60	90	120	150	-7.3°
33	65	100	133	165	-6.6°

37	75	110	150	185	-7.3°
45	90	133	175	220	-7.5°
50	100	150	200	250	6.6°
55	110	165	220	275	-7.3°
60	120	175	240	300	-7.3°
65	133	200	265	330	-7.5°
75	150	225	300	375	-9.4°

Rampage Round Dot Shape

The Round dot shape is an option which can be purchased for an additional charge. The Rampage Round dot shape is a round dot which is rotated at -7.5°. The Round dot shape contains four screen angles: -7.5°, 7.5°, 37.5° and 67.5°. The values listed below are the Round line screens at the corresponding output resolution.

800	1200	1600	2400	3200	Rotation
28	43	55	85	115	5.9°
30	45	60	90	120	-7.5°
34	50	68	100	133	7.5°
35	55	70	110	145	7.5°
40	60	80	120	160	7.5°
45	65	90	133	175	-7.5°
50	75	100	150	200	6.5°
55	85	110	170	225	-7.5°
60	87	120	175	230	7.5°
80	120	150	250	320	-7.5°

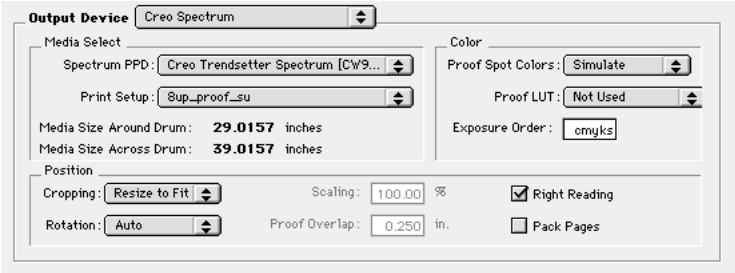
Rampage Stochastic Dot Shape

The Stochastic dot shape is an option which can be purchased for an additional charge. The Rampage Stochastic dot shape is a square shaped stochastic dot. You can vary the size of the stochastic dot by changing the grain and by using dot magnification. Rampage has four grains: Very Fine, Fine, Medium, and Coarse. The values listed below represent the factor that you need to multiply the spot size of the laser at a given resolution to calculate the actual size of the stochastic dot. For example, if the spot size of the laser is 10 microns at 2400 dpi, then the size of the stochastic dot is 60 microns if you set the grain to medium and set dot magnification to 2x.

	800	1200	1800	2400	3000
Very Fine:	1	1	1	1	1
Fine:	2	2	2	2	2
Medium:	3	3	3	3	3
Coarse:	4	4	4	4	4
Medium x 2:	6	6	6	6	6
Coarse x 2:	8	8	8	8	8
Medium x 3:	9	9	9	9	9
Coarse x 3:	12	12	12	12	12
Coarse x 4:	16	16	16	16	16

Profile Device Settings

When you select the Creo Spectrum from the Output Device pop-up menu in a Ramproof Device profile, you get the additional settings listed and described below.



Media Select

Choose the PPD and the Print Setup for the Spectrum you created using Print Console. The media size around and across the drum is displayed.

Proof Spot Colors

The Proof Spot Colors pop-up menu contains three options: No, Yes, and Simulate. If you choose No, Rampage will prompt you for only the four process colors (Cyan, Magenta, Yellow and Black). All spot colors will be skipped. If you choose Yes, Rampage will prompt you for all inks in the job. If you choose Simulate, Rampage will prompt you for only the four process colors (Cyan, Magenta, Yellow and Black). All spot colors will be merged into the process plates. Currently **Yes** for spot colors is not supported in the Creo Spectrum profile.

Proof LUT

This field holds the name of a Rampage CMYK color look up table. This table is generated from a ColorBlind link file and will do CMYK to CMYK color conversion. For more information on using ColorBlind software with the Rampage RIP, see Appendix A: Application Support.

Exposure Order

Exposure Order is the order that the Shooter will use when imaging a proof on the Spectrum. C stands for the cyan ink sheet. M stands for the magenta ink sheet. Y stands for the yellow ink sheet. K stands for the black ink sheet. S stands for the spot color ink sheets. The Spectrum order is CMYK then spot colors. You cannot control the order of the spot inks.

Cropping

The Cropping pop-up menu contains four choices: Resize to Fit, Fit on 1, Fit on 2, and Fit on 4. **Resize to Fit** will always use one sheet of media. If a page is too large to fit on one sheet of media, it will be sized down to fit. If Rotation is set to Auto (see setting below), rotation will occur if it requires less scaling. **Fit on 1** will always use one sheet of media. First, scaling is applied to the page (see setting below). If the page does not fit onto one sheet of media, it is centered on the sheet so the four edges are clipped. **Fit on 2** will first see if the page (with scaling set below), will fit on one sheet of media. If so, the page will image on only one sheet of material. If the page is too large to fit on one sheet of material, then as much of the top of the page will image on the first sheet of material, and the remaining area (with proof overlap) will image on the second sheet. **Fit on 4** will first see if the page (with scaling set below), will fit on one or two sheets of media. If so, the page will image on that many sheets of material. If the page is too large to fit on one or two sheets of material, then as much of the top left of the page will image on the first sheet of material. The remaining top right area of the page (with proof overlap) will image on the second sheet of material. The remaining bottom left area of the page (with proof overlap) will image on the third sheet of material, and the remaining bottom right area of the page (with proof overlap) will image on the forth sheet of material. Currently, only **Resize to Fit** and **Fit on 1** are supported on the Creo Spectrum.

Rotation

This setting determines whether Rampage will rotate the page

- **Normal** - No rotation will occur.
- **Rotate 90** - Rampage will rotate the page 90 degrees.
- **Auto** - This setting will orientate the page on the device, so that the least amount of scaling or cropping will occur.

Scaling

This is the scaling factor when Cropping is set to Fit on 1, Fit on 2, or Fit on 4. Scaling is automatic if cropping is set to Resize to Fit.

Proof Overlap

This is the amount of duplicate data you will get on the edge of the proof when cropping is set to Fit on 2, or Fit on 4.

Right Reading

Check this setting to specify that a proof will be right reading when finally transferred to base material. Unchecking this setting will specify that the proof will be wrong reading.

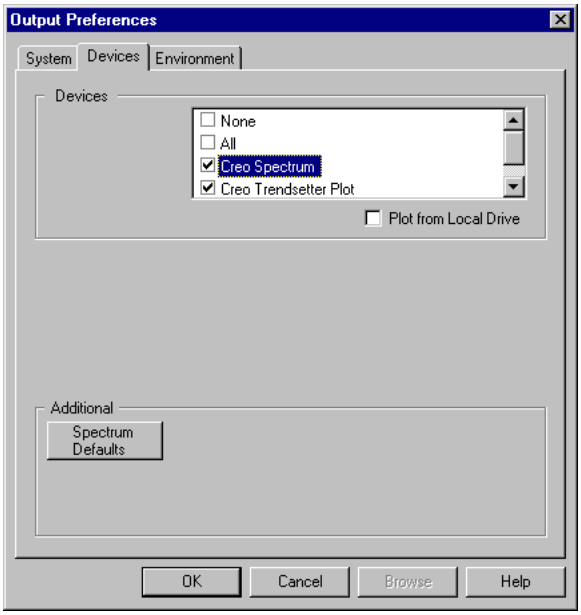
Pack Pages

This feature is not supported on the Creo Spectrum.

Shooter Device Settings

In the Shooter Preferences, when you select the Devices tab and select the Creo Spectrum, the Devices tab displays settings specifically for the Spectrum device.

To enable the Spectrum, you must place a check mark next to the Spectrum device. If you have a combo, you must select both the Creo Spectrum and Creo Trendsetter Plot. Each setting for the Spectrum is described below.

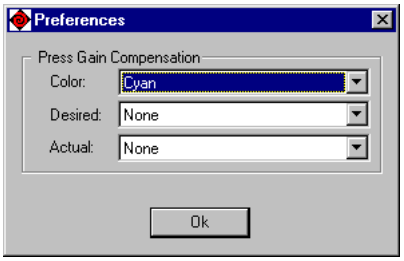


Plot from Local Drive

If this setting is checked, the Shooter application will copy the Rampage RIP data from the server to the local disk before imaging on the Creo Spectrum. This will ensure that network performance has no effect on the imaging of a page.

Spectrum Defaults

The Spectrum Defaults button will open the Spectrum Preferences tab displayed below.



Press Gain Compensation

The Press Gain Compensation area contains the **Local Press Gain Compensation** settings for the Creo Spectrum. This section can be used to linearize the device from the Shooter as apposed to linearizing from the Output tab of the profile. This is necessary, for example, when you have two Shooters connecting to two different Spectrums. If you set Desired and Actual tables from the profile, you will not know which Spectrum Shooter will pick up the job and create the proof. If your tables are different for each Spectrum, your proof will be linearized incorrectly fifty percent of the time.

To set the desired and actual tables for an ink, select the ink from the Color pop-up menu, and then set the table from the Desired and Actual pop-up menus. In the Spectrum RAMproof profile, make sure that **Default** is selected in the Press Gain Actual and Press Gain Desired columns.

Additional Notes

1. At this time, spot colors are not supported when proofing. If you want to see the spot colors in a job, you must simulate them to process.
2. Tiling is not supported at this time.
3. If you 'Modify Output Parameters' when you queue a RIPed page and turn off certain inks, the Print Console window will display "Don’t Print" for the other inks, although they will image correctly.