Magnus VLF Resolution Upgrade: 2400 dpi to 2540 dpi

Product

Magnus VLF

Background

This procedure explains how to upgrade a 2400 dpi thermal head to a 2540 dpi thermal head. Both heads are available as P22 (Magnus Premium) or P33 (Magnus Performance) heads. Both resolutions are available in S, F, or V speed. This procedure does not include changes to the imaging speed or head type. Changing the imaging speed (S or F to V) is a separate option as well as changing from Performance (P33 head) to Premium (P22 head).

The new head must be the same type (P22 or P33) and the same speed (S, F or V).

Time required

Parts required

Part Number	Part Name	Quantity
507-00098A	TH2.7 2540 dpi Premium (Quantum) V speed head	1
32-4196A	TH2.7 2540 dpi Premium (Quantum) S or F speed head	1
507-00156A	TH2.7 2540 dpi Standard (P33) V speed head	1
32-4223A	TH2.7 2540 dpi Standard (P33) S or F speed head	1

Document Requirements

If upgrading the head on a Z-stage carriage, refer to the procedure *Replacing a Thermal Head 2 on a Z-stage Carriage.*

If upgrading the head on a fixed carriage, refer to the *Thermal Head Installation Procedure*.

Procedure

1. Close Print Console on the workstation. From Service Shell, run the firmware upgrade script to back up the machine's NVS parameters.
2. Replace the 2400 dpi thermal head with the 2540 dpi thermal head. Do not zero the head yet.
3. Set up the mode for the new head. Type `>>set mode 1`

```
PRM mode parameters:

Group        Parameter       Active             Default            Units

-------------------------------------------------------------------------

mode         MscanResolution[1] 2400               2400               DPI

mode         SscanResolution[1] 2400               2400               DPI

mode         MscanDuplicate[1] 1                  1

mode         SscanDuplicate[1] 1                  1
```

```
*** Command Complete
```

4. Change the resolution of mode 1 from 2400 to 2540 for both the SscanResolution and MscanResolution as follows:

   ```
   set mode 1 MscanResolution 2540

   set mode 1 SscanResolution 2540
   ```

5. The parameters MscanDuplicate and SscanDuplicate must be left at 1.
6. Repeat steps 3 and 4 for mode 2. It is not necessary to change modes 3 – 10.
7. Type `>>media` and check to see if the media in use at the site has been set up in the new head. If not, enter the new media name into an empty hdm slot. Use the media database to determine the wpower and drum speed.
8. Refer the head installation procedure and continue setting up the new head. Set the sr parameter and zero the head. Perform the standard image quality setup procedures (focus, power, slope, curve).
9. Open Print Console and wait for the device to initialize. When it is complete, click the **Messages** button and confirm that Print Console recognizes the new imaging resolution.

Test

Run the appropriate test images and confirm the performance of the machine.

See also	*Replacing a Thermal Head 2 on a Z-stage Carriage* *Thermal Head Installation Procedure*
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