

Thermal 1.x Exposure Head

Firmware Installation Procedure

Document Number
739-00295A-EN

12-Jun-06

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Revision History

Revision	Date	Author	Comments
A	8 May 2006	Ken Dyck	Created for TH1 firmware release V2.00

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1. HOST/EXPOSURE HEAD COMPATIBILITY

Thermal 1 head firmware is distributed as part of a controlled release package or patch. This firmware has been qualified with certain versions of MPE and MCE firmware for each output device. Head firmware should only be loaded as part of a controlled release package. If you are installing a replacement head:

- See **TechPlanet > Output > All CTP Devices Home Page > Controlled releases**, to determine whether or not your head firmware is compatible with the device control software and firmware.
  If it is compatible, you can install the head firmware.
- If your head firmware is out-of-date, upgrade the head firmware to the version supported by the controlled release.
- If the device control software and firmware are out-of-date, determine if an upgrade path exists for a newer controlled release. If an upgrade path exists, upgrade the host to the correct controlled release.

2. LASER SAFETY PRACTICES

To use this document, you *must* have attended an exposure head introductory course given by the Kodak service-training department, product specialist, or engineering support team. You must be familiar with the necessary safety precautions when working with a thermal head.

DANGER: *Never operate the host device with the write laser beam on and a door open. Do not use the service bypass jigs to bypass the door interlocks.*

3. RELATED RESOURCES

- Firmware release page, available from **TechPlanet** > **Output** > **Heads** > **Thermal 1/17** > **Downloads** > **Firmware Releases** (http://techplanet.creo.com/firmware/CTP/Head/Thermal/versions.htm)
- Thermal 1/1.7 Upgrade Scripts, available from: **TechPlanet** > **Output** > **Heads** > **Thermal 1/17** > **Downloads** > **Firmware Releases** (http://techplanet.creo.com/firmware/CTP/Head/Thermal/versions.htm)
- Service Shell: **TechPlanet** > **Output** > **Service Tools** > **Service Shell** (http://techplanet.creo.com/output/service_tools/service_shell/nav/v2-x/index.htm)
- Controlled Releases: **TechPlanet** > **Output** > **All CTP Devices** > **Control/settings** (http://techplanet.creo.com/output/computer_to_plate/all_ctp/nav/control-set.htm)
- TEH 1/1.7 Head Firmware Summary, available from: **TechPlanet** > **Output** > **Heads** > **Thermal 1/17** > **Reference** > **Release Notes** (http://techplanet.creo.com/output/heads/thermal/content/docs/719-00017A-A-PR01.pdf)

4. PRELIMINARY CHECKLIST

Before you upgrade the exposure head firmware, complete this preliminary checklist:

1. ☐ **Verify the current head firmware version.** If you are upgrading from head firmware version 1.80 or earlier, contact the Response Center for upgrade instructions.
2. ☐ **Verify the hardware version of the exposure head** by typing the following monitor commands:

   MPE:

   ```
   >> list version
   ```

   MCE:

   ```
   >> head version
   ```

   WARNING: If the PHC hardware version is version 1.00 or earlier, *do not* upgrade the thermal head firmware. Doing so could seriously affect head functionality. A hardware upgrade is required to take full advantage of new thermal head functionality.
3. ☐ **Ensure that you have Service Shell version 2.5 SP2 or later**. If you do not have Service Shell installed, contact the Response Center for upgrade instructions.
4. ☐ **Determine if an upgrade of the host firmware is required.** An upgrade of the host firmware is *not* required to upgrade the exposure head firmware. However, an upgrade of the host firmware may be required to take advantage of the new functionality of the exposure head.
5. ☐ **Ensure the thermal 1/1.7 firmware files are available.**
6. ☐ **Ensure the following applications are *not* running**:
   - Allegro Workstation
   - Print Console
   - Prinergy

5. UPGRADE INSTRUCTIONS FOR HEAD FIRMWARE

To upgrade to Thermal 1.x Head firmware version 2.00 you must use FirmwareUpgrade.spt script version 4.94 or greater.

- If the current Service Shell version installed on your workstation is 3.1, then you will already have the required scripts.
- If you are running an earlier version of Service Shell, you can find an updated version of this script on the firmware release page (see “Related Resources”).

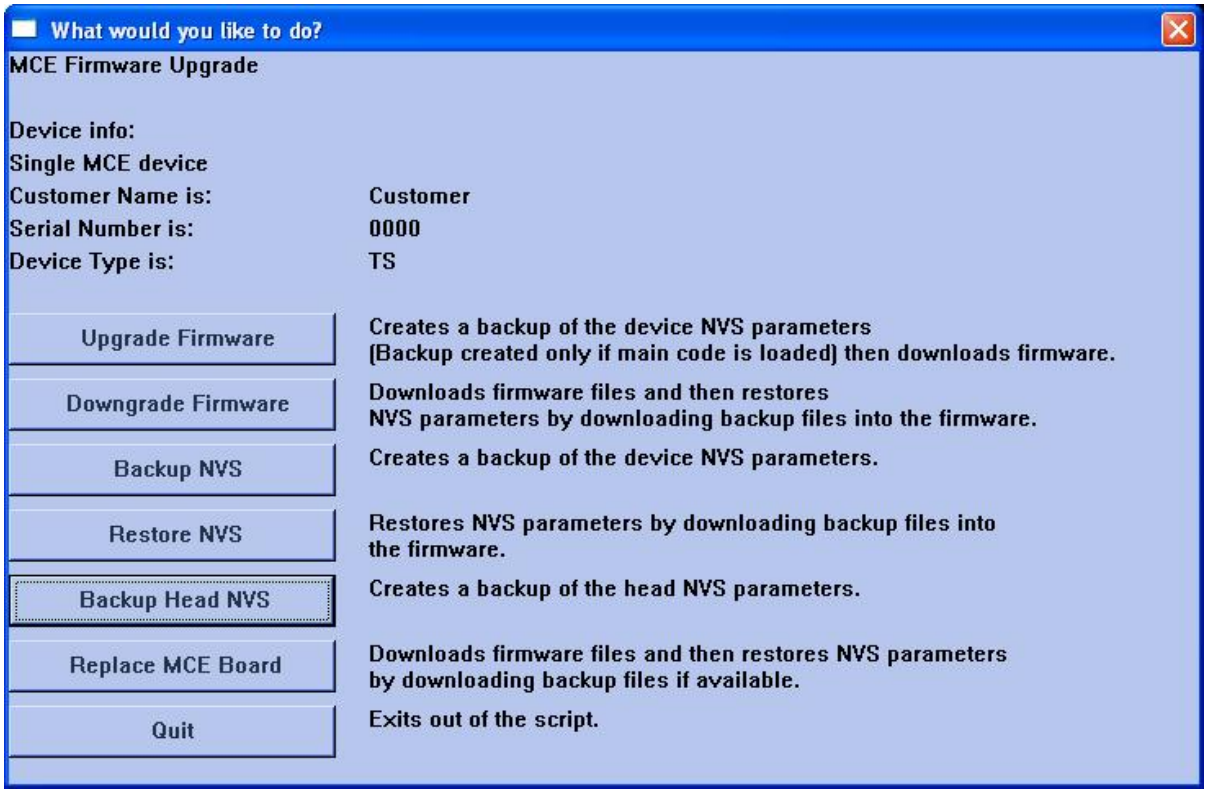
The script files are bundled with the TH1.x V2.00 firmware. These files have been tested on Service Shell 2.5 Service Pack 2, Service Shell 2.6 Service Pack 2, Service Shell 3.0, and Service Shell 3.1.

For detailed information on FirmwareUpgrade.spt, right-click on the script name in Service Shell (as shown below), or see the **d:\ServiceShell\scripts\device** folder on your computer.



1. Copy the two files CommonUtilities.inc and FirmwareUpgrade.spt to the ServiceShell\Scripts\Devices directory on your workstation.
2. If the host firmware is being updated, upgrade the host firmware *first*, prior to upgrading the head. For more information see the controlled release version tables and the TechPlanet Controlled Releases site (these versions are updated frequently).
3. In Service Shell, click the **Device** tab and load FirmwareUpgrade.spt.
4. Execute the script. This script will upgrade the head code to the latest version, provided the current version is 1.80 or later.

   The upgrade script will take approximately 30 minutes to complete.
5. When it is finished the script will take you back to the main dialog box shown below. Click **Quit** to close the script.



6. UPGRADING THE FIRMWARE MANUALLY

Only use this procedure to upgrade the Th1.x firmware if the FirmwareUpgrade.spt script has failed and you were instructed to use this procedure from the Response Centre.

Note: The file must be stored locally on the computer for this command to work.

To manually load firmware in Service Shell, type the command

```
download <path and filename>
```