

Software Requirements for TI DLP® Pico™ TRP Digital Micromirror Devices

1 Summary

This document summarizes the software requirements for systems utilizing a TRP digital micromirror device (DMD). The DLP Pico DMDs outlined in this document require specific system software versions to operate correctly. DMDs outlined in this document are mechanically, optically, and electrically unchanged from the previous version.

NOTE: The information in this document is not a substitute for the specifications listed in the corresponding device data sheets. In the event of a discrepancy, the data sheet supersedes this document.

WARNING

The DMD requires the appropriate system software version in order to operate.

2 Affected Products

The software requirements for the following DMDs are outlined in this document.

Table 1. Part Numbers

| PRODUCT | DESCRIPTION | DEVICE NUMBER |
|---------|--------------|---------------|
| DLP3010 | 0.3 720p DMD | DLP3010AFQK |

3 Software Requirements for New DMD Part Numbers

It is required that customers are running compatible software with the specified DMDs. This section describes how to verify the current software version and how to update it if necessary.

Table 2. System Software Requirements

| Product | Description | Part Number | System Software Version ⁽¹⁾ |
|---------|-------------|-------------|--|
| DLP3010 | .3 720p DMD | DLP3010AFQK | v5.3.0 or higher |

⁽¹⁾ System software refers to the software the DLPC343x controller executes internally.

3.1 Verify Software

During EVM operation, use either of the following three methods to determine the system software version.

- Access the information page of the GUI. In the EVM Information box click **Get** . See the system software version in the box next to *EVM Software*.
- Navigate to the **Advanced** window of the GUI. In the **Systems** window of Projector Control click **Read System Software Version**.
- Issue an I²C command to the DLPC343x controller. For further information on I²C commands, consult the applicable Software Programmer's Guide.

3.2 Update Software

During EVM operation, update the system software by following these steps which updates the EVM firmware.

- Navigate to the ti.com EVM page.
- Download the latest EVM firmware to your PC. Be aware that the firmware version and the system software version can be different.
- Use the supplied GUI to update the EVM firmware. The GUI User Guide is available on the ti.com EVM page.
- Verify that the system software version is correct by using one of the methods described in [Section 3.1](#).

Contact to Texas Instruments at e2e.ti.com for help.

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