

Plasmon®

UDO2

Firmware History
For Library, Archive Appliance
And Desktop
60 GB Optical Drives



Product Change Notice

Product Model Name: UDO60

Date: June 2008

Reference ECO No: 18969

Reason for Change

This PCN announces the release of UDO60 drive firmware version W06A. This firmware is available at no cost from Plasmon via the website, www.plasmontech.com.

Description of Change

The following changes/features are incorporated into the new firmware release:

- A change was made to fix a WPC tracking abort issue that incorrectly reported inaccessible sectors during reads on R/W media.
- The WPC blank search algorithm was improved.
- The UDO30 read speed was reduced by 10% to improve read reliability.
- A track damage and recovery algorithm for RW media was added. This prevents multiple writes from degrading the adjacent tracking information that causes seek problems prevents data recovery on some media.
- A change was made to use default values instead of the actual SDI values on WO media manufactured prior to June 1st 2008.
- The ECC value was changed writing to Liquid Cover Layer media to improve data reliability.
- The sense key was changed from 04 to 03, when the drive issues a check condition for “spares full” during a flush of the drive cache.

Firmware History

To confirm the current firmware version, issue an Inquiry (12H) command.
The following table shows the release history of the UDO30D/I firmware:

Code	Release Date	ECO#
W01	April 2007	18398
W02	May 2007	18461
W03	May 2007	18502
W03A	September 2007	18618
W04A	November 2007	18756
W05	March 2008	Withdrawn
W05A	March 2008	18931
W06A	June 2008	18969

Caution: Do not attempt to install an earlier revision of UDO drive firmware on newer hardware. Downgrading UDO firmware can lead to uncertain and unsupported consequences.

Contact Information for Technical Questions:

Americas and Asia Pacific

Plasmon Technical Support Team
United States Calls: 1-877-585-6793
International Calls: 1-719-593-4437
Fax: 1-719-593-4192
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Product Change Notice

Product Model Name: UDO60

Date: March 2008

Reference ECO No: 18931

Reason for Change

This PCN announces the release of UDO60 drive firmware version W05A. This firmware is available at no cost from Plasmon via the website, www.plasmontech.com.

Description of Change

The following changes/features are incorporated into the new firmware release:

- A change was made to use default values for WPC instead of actual SDI values for media manufactured prior to April 1, 2008. If the SDI is used on media manufactured prior to that date an incorrect power setting could be specified causing the drive to report "dirty", 04-40-9D.
- A change was made to clear the calibration log after a cleaning operation. This will cause a new WPC to be performed on all media after that operation.
- The LPC (laser power calibration) range was increased to 16mv.
- The cleaning tab activation was changed to 7 days or 250 unloads.
- An issue was resolved that prevented the drive from staying in fail safe mode.
- A correction was made so that a false CDE 208 (partial opt table in use) is not caused by the drive issuing a spares early warning 3 (03-40-e3) check condition
- The USB operation was changed to prevent a "stall" from being issued. This increases the compatibility with certain PC BIOS.
- A correction was made to stop the USB chip from intercepting the CBW signature and stalling the transfer. This would occur if a 0x42, 0x43, 0x53 or 0x55 data sequence was received at the beginning of a data packet.
- TTP: 1281, An issue was resolved when spinning down a UDO-Guarded disk. On an Inquiry the media serial number returned on page C1 was set to 0 until the spin-down was completed. Now during spin-down the media serial number is also returned.
- TTP: 1283, An error was corrected in the Format Immediate command. If the Format Immediate was performed and followed by a standard Format, the standard Format was also treated as Immediate.
- TTP: 1284, A change was made to the DSP firmware to determine if the current PBA is less than the armed PBA. This corrected an issue during a read recovery where the DSP was getting "stuck" off of the desired track, causing a read timeout (0x50E).
- The initialization of the WPC area of RW media was corrected to properly erase the area after all of the sectors have been used. It allows proper overwrite of the sectors in the WPC area.

Firmware

To confirm the current firmware version, issue an Inquiry (12H) command.

The following table shows the release history of the UDO30D/I firmware:

Code	Release Date	ECO#
W01	April 2007	18398
W02	May 2007	18461
W03	May 2007	18502
W03A	September 2007	18618
W04A	November 2007	18756
W05	March 2008	Withdrawn
W05A	March 2008	18931

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Product Change Notice

Product Model Name: UDO60

Date: March 2008

Reference ECO No: 18905

Reason for Change

This PCN announces the release of UDO60 drive firmware version W05. This firmware is available at no cost from Plasmon via the website, www.plasmontech.com.

Description of Change

The following changes/features are incorporated into the new firmware release:

- A change was made to clear the calibration log after a cleaning operation. This will cause a new WPC to be performed on all media after that operation.
- The LPC (laser power calibration) range was increased to 16mv.
- The cleaning tab activation was changed to 7 days or 250 unloads.
- An issue was resolved that prevented the drive from staying in fail safe mode.
- A correction was made so that a false CDE 208 (partial opt table in use) is not caused by the drive issuing a spares early warning 3 (03-40-e3) check condition
- The USB operation was changed to prevent a "stall" from being issued. This increases the compatibility with certain PC BIOS.
- A correction was made to stop the USB chip from intercepting the CBW signature and stalling the transfer. This would occur if a 0x42, 0x43, 0x53 or 0x55 data sequence was received at the beginning of a data packet.
- TTP: 1281, An issue was resolved when spinning down a UDO-Guarded disk. On an Inquiry the media serial number returned on page C1 was set to 0 until the spin-down was completed. Now during spin-down the media serial number is also returned.
- TTP: 1283, An error was corrected in the Format Immediate command. If the Format Immediate was performed and followed by a standard Format, the standard Format was also treated as Immediate.
- TTP: 1284, A change was made to the DSP firmware to determine if the current PBA is less than the armed PBA. This corrected an issue during a read recovery where the DSP was getting "stuck" off of the desired track, causing a read timeout (0x50E).
- The initialization of the WPC area of RW media was corrected to properly erase the area after all of the sectors have been used. It allows proper overwrite of the sectors in the WPC area.

Firmware

To confirm the current firmware version, issue an Inquiry (12H) command.

The following table shows the release history of the UDO30D/I firmware:

Code	Release Date	ECO#
W01	April 2007	18398
W02	May 2007	18461
W03	May 2007	18502
W03A	September 2007	18618
W04A	November 2007	18756
W05	March 2007	

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Product Change Notice

Product Model Name: UDO60

Date: November 2007

Reference ECO No: 18756

Reason for Change

This PCN announces the release of UDO60 drive firmware version W04A. This firmware is available at no cost from Plasmon via the website, www.plasmontech.com.

Description of Change

The following changes/features are incorporated into the new firmware release:

- The spindle controller communication was corrected to prevent a library unload or eject command from being missed and causing a retry
- The WO WPC algorithm was enhanced and prevents an incorrect write power from being selected. Selecting the incorrect write power results in a write error, 03-XX-XX.
- Improvements were made to the RW WPC to better handle aging media.
- Two USB variables were changed. The first to indicate a MAX power of 100ma and the second to indicate that the drive is Self-Powered. (uses no power from the USB)
- The scan retries were increased when getting a VAP (verify and protect) detect during a write to VAP detection. This prevents check conditions for false VAP detects.
- The LPC (laser power calibration) algorithm was enhanced.
- A UDO Guard issue was resolved where the drive returned a check condition for guarded status on a TUR, if UDO Guarded media was loaded, unloaded with the eject button on the drive.
- A problem was corrected where the drive would return a check condition 03-0c-01, ESC 3d immediately following the initial WPC of the disk.
- A problem was corrected that prevents improper handling of the WPC sectors.

Firmware

To confirm the current firmware version, issue an Inquiry (12H) command.

The following table shows the release history of the UDO30D/I firmware:

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W01	April 2007	18398
W02	May 2007	18461
W03	May 2007	18502
W03A	September 2007	18618
W04A	November 2007	18756

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