

Letter of Volatility

This letter describes volatile, non-volatile, and storage media on the specified product(s). Customers can use this document to comply with security requirements and equipment handling procedures.

For additional information, please contact Ocean Optics at +1 407-673-0041 or visit https://www.oceaninsight.com.

Product Information

Product Family:	Flame Series Spectrometers
Product Models:	All variants and configurations
Manufacturer: Address:	Ocean Optics, Inc. dba Ocean Insight 3500 Quadrangle Blvd. Orlando, Fl. 32817

Volatile Memory

This product contains volatile memory, which is erased when power is removed.

Item 1 Type: FPGAUser Modifiable: NoFunction: Provides major functionality for the spectrometer. The device is re-programmed viaFLASH on power up.Process to sanitize: Power down

Item 2 Type: RAMSize: 16kBUser Modifiable: NoFunction:Stores program memory for the microcontroller. The device is re-programmed eachtime the board is powered up.Process to sanitize:Power down

Item 3 Type: SRAMSize: 4MbUser Modifiable: YesFunction: This device is used to expand operating memory for the microcontroller and provides
storage of spectral data. Data is modified by executing various device firmware instructions
and operating parameters.Process to sanitize: Power down



Non-volatile Memory

This product contains non-volatile memory, which is retained when power is removed.

Item 1 Type: EEPROM Size: 256kB User Modifiable: Limited; via service routines only <u>Function</u>: This external memory serves the microcontroller. Stores program data and calibration constants. Memory can only be modified by Ocean Optics service routines and authorized software. <u>Process to sanitize</u>: None, clearing the device will render the product inoperable. User Modifiable: Limited; via service Item 2 Type: EEPROM Size: 256kB routines only <u>Function</u>: This external memory serves the microcontroller. Stores calibration constants. Memory can only be modified by Ocean Optics service routines and authorized software. <u>Process to sanitize</u>: None, clearing the device will render the product inoperable. Item 3 Type: FLASH Size: 4Mb User Modifiable: Limited; via service routines only Function: This external memory stores configuration data for the FPGA. Memory can only be modified by Ocean Optics service routines and authorized software. Process to sanitize: None, clearing the device will render the product inoperable.

Media

This product does not contain media storage devices.

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