Technical Bulletin

B&G

TB- 130756 / June 30, 2020

ZM16, 19 and 24 Software Update

Product:

Product Description:	000-11736-001 ZM16-T
	000-11737-001 ZM19-T
Software Version:	BOOTLOADER 12_0_00_00
	MCU 1_5_06_00
	OSD 2_0_04_01
Effective Date:	December 2019
Inspect/Update Current Inventory:	No

B&G is pleased to announce that new software has been released for the ZM range of widescreen monitors. This release incorporates some minor fixes from the previous version.

Fixes

- If the power button is pressed repeatedly the monitor would become unresponsive
- A smoother backlight transition is implemented
- PiP source history was not saved
- PiP split screen did not always work
- Wrong source displayed when switching PiP
- Half screen sometimes displayed on start up

Download and preparation Instructions

Download

1. Download the software update from https://ww2.bandg.com/support/software/ and search for monitors.
2. Download the software update zip file **BandG_ZM_MONITOR_SOFTWARE_2019.zip**
3. The software upgrade pack contains these three files:
   - Bootloader: KETOS Boot Loader 12_0_00_00.swup
   - BIOS: ZM16 19 - MCU 1_5_06_00.swup

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- OSD: ZM16 19 - OSD 2_0_04_01.swup
4. Unzip the three files and copy to the root of a SD card.
   Note: B&G multifunction displays can read SD/microSD cards up to 32GB if formatted FAT 32. Cards over 32 GB require formatting to NTFS before use. Refer to your computer's operating system manual for formatting instructions.
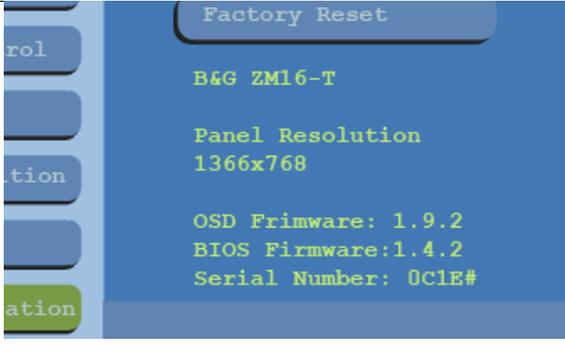
Preparation

- Before commencing with the upgrade, it is recommended that NMEA 2000® network traffic is minimized by powering down unnecessary devices such as AIS transponders and multifunction displays.
- Upgrades must be performed dock side and not while the vessel is underway. Some NMEA 2000 devices will go into maintenance mode during the upgrade and will be offline.
- Make sure all monitors to be upgraded are connected to the NMEA 2000 network.
- The updaters can be run from any B&G MFD that is on the same NMEA 2000 network as the ZM Monitor. If there is another MFD other than the connected Zeus[2/3] GH it is recommended to run the updater from that MFD.

Check current versions

Before upgrading, please make a note of the current versions as this determines in which order the software is to be upgraded.

1. Press the power button on the monitor to bring up the OSD (On Screen Display)
2. Press the down arrow to select CONFIGURATION
3. Check the software version and proceed to the next relevant step.

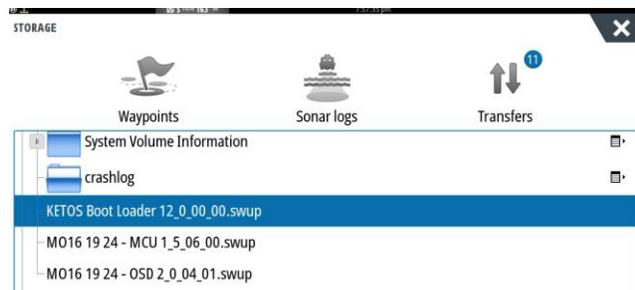| OSD 1.9.2 BIOS 1.4.2	OSD 2.0.3 BIOS 1.4.9 or higher

Goto STEP A	Goto STEP B

Step A

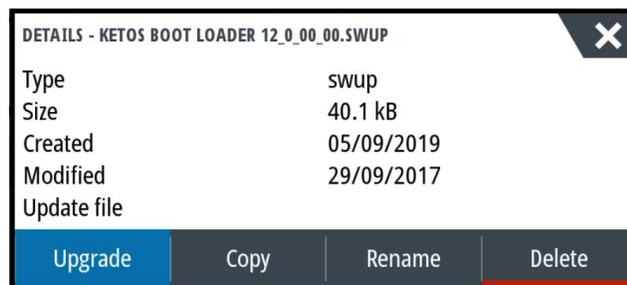**Install Bootloader upgrade file "KETOS Boot Loader 12_0_00_00.swup"**

Only apply this upgrade file to one monitor at a time. (Multiple monitors on a network can be powered on, but only <u>one</u> monitor at a time should be selected before starting the upgrade).
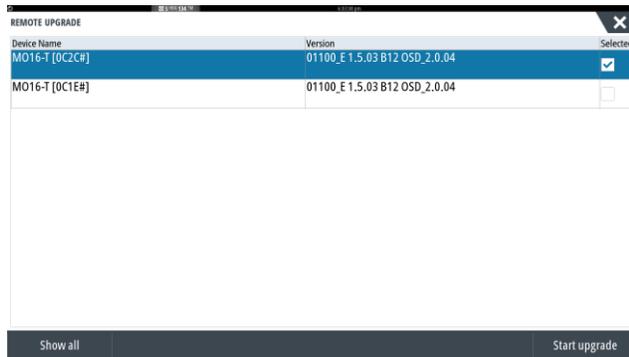
1. Insert the media card into the card reader of an MFD or Zeus$^{2/3}$ GH processor.
2. From the HOME page select FILES.
3. Select the media card that holds the upgrade files.
4. Select the upgrade file "**KETOS Boot Loader 12_0_00_00.swup**".

5. Select **Upgrade** to continue.

6. Select the monitor to upgrade **(make sure only one is selected).** Then select Start upgrade (ZC1 /ZC2 press MENU> then select start upgrade).

7. The upgrade process of the BIOS only takes a short time as indicated by a progress bar.

8. Once complete, acknowledge the upgrade successful message.
9. The LED on the monitor will continue to flash for approximately 45 seconds after, after which the monitor (not the MFD/Zeus$^{2/3}$ GH) will automatically restart.
10. Press X to exit installer page.
11. Apply to the next monitor.
12. Proceed to Step B

Note: If when running this updater the update fails. Power cycle and proceed to Step B.
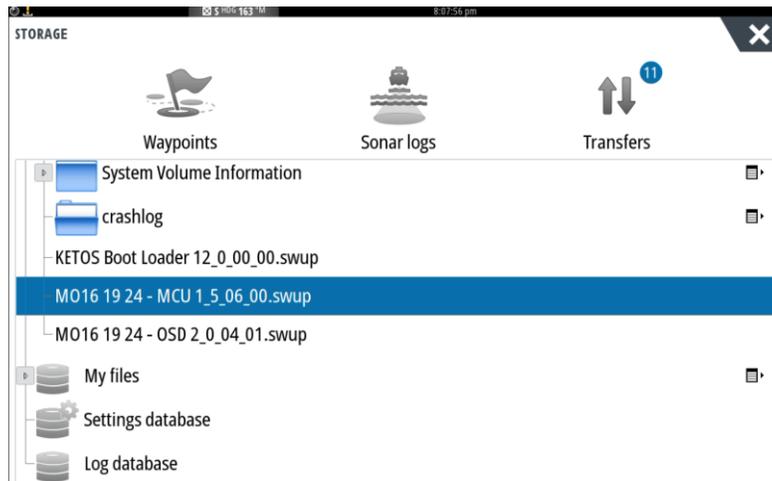
Step B

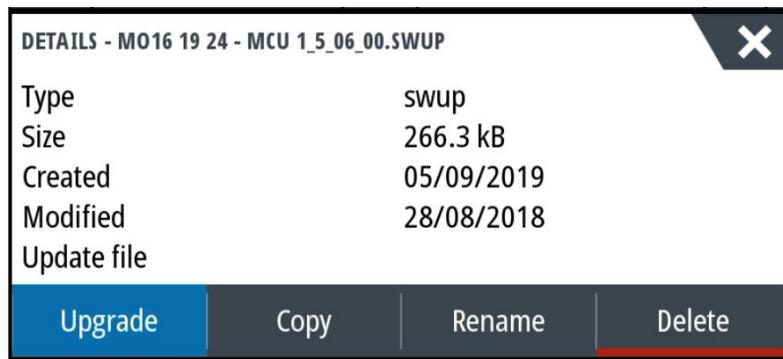**Install Bootloader upgrade file "ZM16 19 - MCU 1_5_06_00.swup"**

Only apply this upgrade file to one monitor at a time. (Multiple monitors on a network can be powered on, but only <u>one</u> monitor at a time should be selected before starting the upgrade).

1. Insert the media card into the card reader of an MFD or Zeus$^{2/3}$ GH processor.
2. From the HOME page, select FILES.

3. Select the media card that holds the upgrade files.
4. Select the upgrade file "**ZM16 19 - MCU 1_5_06_00.swup**".

5. Select UPGRADE to continue.

6. Once completed, acknowledge the upgrade successful message.
7. The LED on the monitor will continue to flash for approximately 45 seconds, after which the monitor (not the MFD/ Zeus[2/3] GH) will automatically restart.
8. Press X to exit installer page.
9. Apply to the next monitor.
10. Proceed to Step C.

Note: If the monitor reboots to a black screen and flashing red LED, remove power to the monitor then power back on. Proceed to Step C.
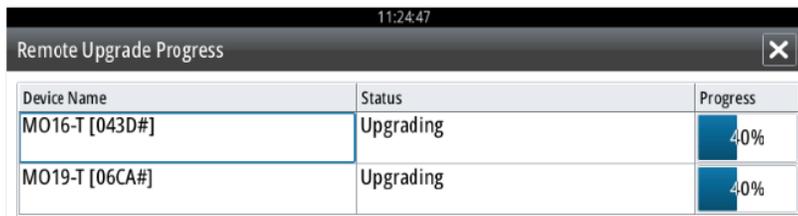
Step C

Install the OSD updater file "ZM16 19 - OSD 2_0_04_01.swup"

Make sure you have upgraded the BIOS (MCU 1.5.0 or later) as above.

This upgrade can be applied to multiple monitors on the network at the same time (up to six monitors).

1. Insert the media card in to the card reader of an MFD or Zeus$^{2/3}$ GH processor.
2. From the HOME page select FILES.
3. Select the media card that holds the upgrade files.
4. Select the upgrade file "**ZM16 19 - OSD 2_0_04_01.swup**".
5. Select UPGRADE to continue.
6. Select the monitor(s) to upgrade **(you can select up to six monitors at a time).** Then select Start upgrade.
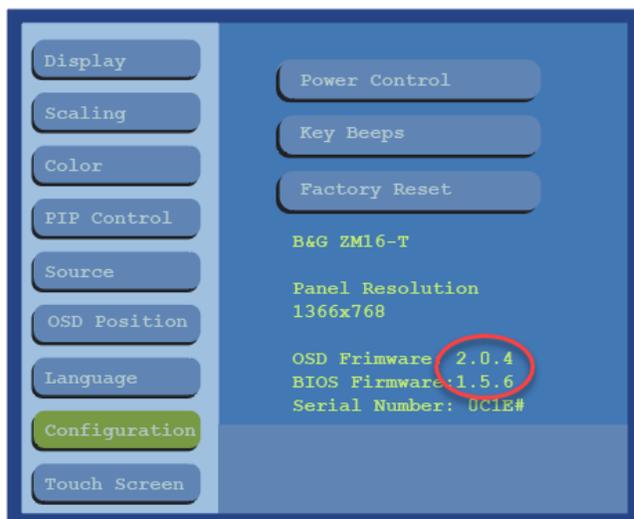

7. **This process will take about ten minutes to upgrade one monitor. Allow for an extra ten minutes for each additional monitor that is selected to be upgraded. Please be patient**. **It is important not to remove power to the system at this stage.**
8. As each monitor is upgraded, the red LED status light will flash.
9. Once completed, acknowledge the upgrade successful message.
10. The LED on the monitor will continue to flash for approximately 45 seconds, after which the monitor (not the Zeus$^{2/3}$ GH) will automatically restart.
11. Press X to exit installer page.

Recheck the software versions

After applying both upgrades. Recheck the version numbers.
1. Press the power button on the monitor to bring up the OSD (On Screen Display).
2. Press down arrow to select CONFIGURATION.
3. The new software versions displayed should be
   a. OSD Should now be 2.0.4

b. The BIOS should now be 1.5.6

For More Information:
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Canada Based Resellers Technical Support: (855) 361-1564

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- International/Latin America – international@navico.com
- National Retail – retail@navico.com
- Dealers/Distributors – orders@navico.com

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