

DM5E version 1.27.B1 is an upgrade of the software and firmware for DM5E, including the fixes described below.

Version 01.27.B1 Fixes and Enhancements, Feb 2021

- Rebrand DM5E as a UT standard product from Waygate Technologies.

Version 01.26.B3 Fixes and Enhancements, Sep 2012

- Update the probe settings for DA312, DA401 and DA507

Version 01.26.B1 Fixes and Enhancements

- Fixed the bug that the instrument stops detection in auto mode when zeroing process isn't finished.
- Fixed the bug that sometime a noise will cause a "valid" reading even when there is no probe connected. Now the code will check the probe status at the same time.
- Fixed the bug that the auto power off parameter is not initialized when the device is power on.

Version 01.25.B1 Fixes and Enhancements

- DM401 probe setting. Adjust the gain setting for zeroing process from 56 to 59.
- Fixed a bug in calling 'scanf' function which will cause the instrument shuts down.
- Clean the code for release.

Version 01.24.B20 Fixes and Enhancements

- Change DA512 probe settings, the adjustment value for OFF BLOCK ZEROING. Now this value is based on the matrix testing. Detect more times during OFF BLOCK ZEROING to get a stable value.
- Adjust waiting time from 100ms to 10ms while reading battery ADC values.

Version 01.24.B19 Fixes and Enhancements

- Update LCD driver. DM5E don't support two types LCD module. Set a constant value for LCD module.
- Change DA512 probe settings, the adjustment value for OFF BLOCK ZEROING. Now this value is as same as the value for ON BLOCK ZEROING. Add some delay before OFF BLOCK ZEROING to get a stable reading.
- Disconnect probe from DM5E, will show "zero invalid" or calibration reminder after a while.

Version 01.24.B17 Fixes and Enhancements

- The instrument will shut down after pressing "CAL" button when using some DA512 probe.
- In 1pt mode, only update zero value after user press CAL/ON button
- Adjust dead battery from 2.2V to 2.3V.
- Adjust DA512 zeroing gain from 50dB to 48dB.

Version 01.24.B16 Fixes and Enhancements

- Not limit the parameter value of remote command 'TK'

Version 01.24.B15 Fixes and Enhancements

- Fixed bugs in DR system.
- Check the reading before saving. If the reading is zero, it won't be saved. This is done for all measurement modes, including B-Scan, Min Scan, Max Scan and Diff.

- Add new remote commands as required.

Version 01.24.B08 Fixes and Enhancements

- Add a combination key to format the flash. The combination key is power on and left arrow and right arrow.

Version 01.24.B07 Fixes and Enhancements

- Update data log and file system code to handle error check.
- Change the code to clean the flash blocks to improve the efficiency.
- Version description is changed. Add a "B" for building and a "T" for testing.

Version 01.24.B04 Fixes and Enhancements

- Load default zero value only when "ZERO INVALID" shows on screen
- Zero process suspend when probe plug in and out
- Run in power saving mode
- Wait 6ms after power on

Version 01.24.B03 Fixes and Enhancements

- Show "ZERO INVALID" only when user kick off zero process and zero is invalid
- End zero process if processing time is more than 3 seconds
- Reduce auto-zero frequency when probe is uncoupled

Version 01.24.B02 Fixes and Enhancements

- Update calibration workflow.

Version 01.24.B01 Fixes and Enhancements

- Add a new remote command, SD, to set/get the delay time for power strobe.

Version 01.23.B01 Fixes and Enhancements

- Update calibration workflow.
- Add check of value limits in remote commands.
- Improve detection and calculation of battery voltage.

Version 01.20.B06 Fixes and Enhancements

- Translation update in German. "KOPPELMITTEL VOM PR"FKOPF ABWISCHEN i®ZEROj¯ ODER i®CALj¯ DR"CKEN" change to: "KOPPELMITTEL VOM PR"FKOPF ABWISCHEN i®NULLj¯ ODER i®CALj¯ DR"CKEN".

Version 01.20.B05 Fixes and Enhancements

- Fix bug of FH2E can't calibrate in AUTO mode.

Version 01.20.B04 Fixes and Enhancements

- Disable delay line check when in manufacture calibration mode.

Version 01.20.B03 Fixes and Enhancements

- Set DA501 DM range to 3mm - 45mm.

Version 01.20.B02 Fixes and Enhancements

- Save dual-multi flag when power off.
- Optimize power management when detect connection.

Version 01.20.B01 Fixes and Enhancements

- Use new startup process as discussed with Peter

Version 01.19.B09 Fixes and Enhancements

- fix bug of storage value incorrect when use dual-multi

Version 01.19.B08 Fixes and Enhancements

- Update dual-multi range for all probes to give 0.03 mm buffer.

Version 01.19.B06 Fixes and Enhancements

- Change DA501 dual-multi from POS to NEG.

Version 01.19.B05 Fixes and Enhancements

- Change DA507 dual-multi to PEAK mode per Peter's comments.

Version 01.19.B04 Fixes and Enhancements

- Default B-Scan range set to 10 inch, and display at least 1 pixel when coupled.
- Set DA507 gain back to 66 dB in SIP mode, and change gate threshold to -38

Version 01.19.B01 Fixes and Enhancements

- Decrease DA507 SIP search gain of 3 dB, from 66dB to 63dB
- Update FPGA driver code to support FPGA version 02.01

Version 01.18.B16 Fixes and Enhancements

- Add check of gate A reading in dual-multi mode, to avoid wrong reading on very thin test block.

Version 01.18.B12 Fixes and Enhancements

- Add check of dual-multi range when calibration.

Version 01.18.B11 Fixes and Enhancements

- Update probe setting of DA501, dual-multi range and setting.

- Update probe setting of DA507, update DM range.
- Zero init bug when switch probe to DA512.

Version 01.18.B09 Fixes and Enhancements

- Update probe setting of DA507.

Version 01.18.B08 Fixes and Enhancements

- Update Italian translation of new message "ZERO INVALID".

Version 01.18.B07 Fixes and Enhancements

- Change probe table to support POS and peak-to-peak gate in dual-multi mode for DA501.
- IP and Dual-Multi mode use different Gate A setting.
- Enable DA507 for test.

Version 01.18.B06 Fixes and Enhancements

- Update DA512 probe setting.

Version 01.18.B05 Fixes and Enhancements

- Update Polish and Spanish translation of new message "ZERO INVALID".
- Remove DA507, it still in test.

Version 01.18.B04 Fixes and Enhancements

- Update Russian translation of new message "ZERO INVALID".
- Roll back FH2E setting to version 01.17, because more test needed.

Version 01.18.B03 Fixes and Enhancements

- Update language translation of new message "ZERO INVALID", update fonts.

Version 01.18.B01 Fixes and Enhancements

- Add a build number into software version number when display at start up.
- Inform user when zeroing is not valid.
- Reset key for empty password doesn't work, fixed.
- Improve the power up process.
- Change the battery icon display levels
- Feed watch dog more frequent in file transmit. Add feed of watch dog when file creation.
- reduce the length of memo to 16 per line and the total length is 32 including nulls
- Change AGC process and setting of FH2E, to improve the performance of FH2E on FBH #2 test block.
- Upgrade USB driver to compatible with Windows 64bits.

Version 01.17 Fixes and Enhancements

- remove DA507 for release
- change on-off block zeroing algorithm, add 5ms delay before acquisition
- In IPT calibration, add right function key "CAL/ON"
- Adjust default calibration space values.
- If current DR cell isn't empty, add a yes/no indicator for overwriting.
- If password is empty, enter lockout menu directly.
- Add new language: Polish
- Add Zero/Cal indicator new dual-multi icon.
- Add B-Scan update rate selection in configuration menu, change B-Scan column width from 4 to 1.
- Change "DATA RECORDER" to "DATA LOGGER".
- Add probe EM 089
- DR create file Japanese GUI change:

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- Setting of thickness hold should be a global parameter, so keep unchanged after change probe.
- DR record wrong number when use comma as separator
- In French and English calibration message, sometimes the unit (mm/in) mismatch.
- A bug occurs in Japanese or Chinese GUI, when press SEND, the language set to English automatically.
- Some Japanese messages changed.
- Japanese calibration message line 1 changed.

Version 01.16 Fixes and Enhancements

- Force to use low gain when use DA512 and in dual multi-mode.
- DA512 Dual-multi parameter changed.
- Backlight may light on in AUTO mode, without any action, fixed.
- Some message in Japanese GUI changed.
- Fixed a bug in Japanese GUI, when do zeroing/calibration, some characters missed.
- Remote code 8S to set auto power down time.

Version 01.15 Fixes and Enhancements

- License key generator algorithm changed. Use only characters to generate license key, instead of char and number.
- Remote code PQ to change current probe.
- Remote code 8N to set units.
- Remote code 8P to set backlight status.
- Remote code 8Q to set language.
- Remote code 8R to power down instrument.