

MTi 10-series Firmware



Changelog

Author: Product Manager
Last updated: April 1, 2019
Document: MT0225P

Symbol	Meaning
+	Added
^	Changed
!	Note
#	Fixed
-	Removed

Reference documents

- MT Software Suite changelog

Version 1.11.2

Applies to: 5th generation MTi

Release date: March 20, 2019

Compatible MT Software Suite version: 2019.1.2

Release type: Beta

Improvements & features

Improvement	MKVFW-80	^	Update to World Magnetic Model 2015v2
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Bug Fixes

Version 1.10.0

Applies to: 5th generation MTi

Release date: February 14, 2019

Compatible MT Software Suite version: 2019.0.1

Release type: Stable

Improvements & features

New Feature	MKVFW-28	+	Enabled AccelerationHR and RateOfTurnHR for 10-series
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Bug Fixes

Bug	MKVFW-20	#
Bug	MKVFW-25	#
Bug	MKVFW-32	#
Bug	MKVFW-36	#
Bug	MKVFW-63	#

Fixed several rarely occurring minor bugs

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Author: Product Manager
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Version 1.8.2

Applies to: 4th generation MTi

Release date: February 14, 2018

Compatible MT Software Suite version: 4.8.0

Release type: Beta

- # [MKIVFW-48] A settings problem locks up the EMTS client.
- ^ [MKIVFW-98] MAG clip flags are not sticky.
- # [MKIVFW-124] *ReqAlignmentRotation* does not return parameter.
- ^ [MKIVFW-132] Status word bit for selftest is 0 with SCR data.
- + [MKIVFW-144] Add *ReqHardwareVersion* message to MTi Product Family.
- # [MKIVFW-112] Remember ICC DDT value over *gotoConfig/gotoMeasurement*.

Version 1.7.4

Release date: October 10, 2017

Compatible MT Software Suite version: 4.8.2

Release type: Beta

- + [MKIVFW-121] Added possibility to configure USB buffering behavior in order to reduce communication latency.
- # [MKIVFW-133] Fixed update process of Firmware Update for 5th generation MTi.

Version 1.7.2

Release date: July 5, 2017

Compatible MT Software Suite version: 4.8

Release type: Stable

- [MKIVFW-105, MTSDK-4002] 5th generation MTi's no longer support legacy mode.
- # [MKIVFW-109] Solved situation where MTi would crash when outputting all NMEA strings at 400 Hz.

Version 1.6.3

Release date: March 31, 2017

Compatible MT Software Suite version: 4.7.2

Release type: Beta

- + [MTSDK-3958, MTSDK-3685, MKIVFW-103] Added 5th generation MTi support, see BASE.xsens.com.

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Version 1.5.1

Release date: December 21, 2016

Compatible MT Software Suite version: 4.7

Release type: Stable

- + [MTIONE-135, MKIVFW-81] Added ICC to Firmware. ICC is a beta feature for MTi-G-700/710.
- + [MTIONE-136, MTS DK-3872, MTS DK-3854, MTS DK-3855] Representative Motion mode, both in firmware and MT Manager.
- + [MTSDK-3856, MTIONE-137] Possibility to store ICC data to non-volatile memory.
- ^ [MTSDK-3698, MTS DK-3787, MTS DK-3807] Gyro Bias Estimation using the No Rotation Update uses a stillness detection mechanism which is more robust to slow rotations and facilitates faster convergence times - this improves the functionality of NRU and AHS features.
- ^ [MKIVFW-78, MTS DK-3859] Improved and simplified Gyro Bias estimation status bits.
- # [MKIVFW-85] PHTRO (NMEA-output) has a bug fixed when roll is higher than $\pm 90^\circ$.

Version 1.4.18

Release date: October 10, 2016

Compatible MT Software Suite version: 4.6.5

Release type: Beta

- ^ [MTSDK-3698, MTS DK-3787, MTS DK-3807] Gyro Bias Estimation improved with faster convergence times.
- ^ [MKIVFW-38, MTS DK-3809] BusId can now be selected for RS485 bus communication. Note: feature may disappear in favor of more versatile addressing features.

Version 1.4.16

Release date: August 10, 2016

Compatible MT Software Suite version: 4.6.3

Release type: Beta

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Version 1.4.12

Release date: July 12, 2016

Compatible MT Software Suite version: 4.6

Release type: Stable

- + [MTSDK-3661] Added AHS for all MTi's and MTi-Gs. AHS off by default, also for VRU_general. AHS can be switched on with a boolean in SetOptions.
- ^ [MTSDK-3656] MTi with 15g accelerometers output up to 18g now.
- # [MKIVFW-40] MTi-OEM can be scanned on 2nd UART again.

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[MTSDK-3764] Fixed timing bug with magnetometer, resulting in heading errors in mag-aided filter profiles.

Version 1.4.10

Release date: May 20, 2016

Compatible MT Software Suite version: 4.5.6

Release type: Beta

^ [MTSDK-1813] High gyro bias is now successfully estimated.

^ [MTSDK-3672, MTSDK-3672, MTSDK-3528] Stillness detector improvements result in higher performance for gyro bias estimation functionality.

Version 1.4.6

Release date: April 11, 2016

Compatible MT Software Suite version: 4.5.4

Release type: Beta

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Version 1.4.5

Release date: January 18, 2016

Compatible MT Software Suite version: 4.5

Release type: Stable

[MKIVFW-25] A timing difference of 500us has been corrected for in the MTi MkIV.

^ [MTSDK-3407] Legacy mode deprecated for MTi MkIV; normal mode is default mode for all products now.

^ [MTSDK-3410] FreeAcceleration output improved after periods of excitation.

[MKIVFW-22] The magnetometer output will no longer flip polarity when saturated.

[MTSDK-3294] Sample mixer now correctly subtracts gyroscope bias.

^ [MKIVFW-28, MTSDK-3407] Default output configuration mode is Normal Mode (no longer Legacy Mode).

+ [MTSDK-3159] Updated World Magnetic Model to WMM2015.