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1 Release type

Product/solution	FsMega Firmware 1.4.2	
Release type	Demo	☐
	Proto	☐
	New product	☐
	Additional features /functionalities	☐
	SW product	☒
	Document update	☐
	Correction revision	☐
	Other [state here what]	☐

2 Release components

Release component	Name and version
HW + version	
SW name + version	
Camera firmware	FsMega Firmware 1.4.2

Documentation	Name and version
User manual	☐
Installation guide	☐
Release note	Release Note FsMega 1.4.2 ☒

3 Release feature

This release supports sensors LCI1220 and LCI1620.

FsMega release 1.4.2 includes the following improvement:

- FSBL updated to correct the MAC address reading bug which caused sensors to have an identical MAC address

4 Previous FW release features

FsMega release 1.4.1 includes the following improvements:

- FSBL updated to autodetect the memory type
- Support for writable PARAM_Y_TOLERANCE_MIN and PARAM_Y_TOLERANCE_MAX parameters for FSSDK.
- Better firmware file handling support for Sensor Maintenance Tool 1.2.0.

FsMega release 1.4.0

Release included the following improvements:

- Improved network stability
- Status LED blinks blue in network IP configuration phase

FsMega release 1.3.2

Release included features:

- The number of available Dynamic Sensor Control points has been increased to 32.
- Added support for PARAM_MAX_POINT_COUNT parameter which limits the amount of payload data in Ethernet.

FsMega release 1.3.0

Release included features:

- High Dynamic Range (HDR) imaging is supported by the sensor and it is useful in situations where the target has high level of contrast.
- Improved network connection initialization reliability.

5 Important Notes

When using Dynamic Sensor Control (DSC) with a variable Region-of-Interest (ROI) height, set the initial ROI size to the maximum height in the DSC parameters. This must be done because the size of internal data buffers is determined by the initial ROI, not the ROI values in the DSC parameters. ROI Y offset is not important in this regard. For example, if you have ROI height values 100, 500, and 1000 in the DSC parameters, set the initial ROI to the maximum height 1000.

If a non-recommended Intel Ethernet Converged Network Adapter X710 is used, go to Network connections, select the used connection and then => Properties => Configure => Advanced => Speed & Duplex setting should be set to "10 Gbps Full Duplex". Connection doesn't work with the 'Auto Negotiation' option.

If changing the above setting doesn't succeed with the current network adapter driver, update the driver from Intel (<https://downloadcenter.intel.com/download/22283/Intel-Ethernet-Adapter-Complete-Driver-Pack>).

Updating needs to be done manually from device manager, remember to update all Intel(R) Ethernet Converged Network Adaptor X710 ports.

6 Disclaimer

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