

IDX Firmware Version «Readme»

Edition 2021-04 | DocID rel9959

It is essential that you read / understand / follow the below information!

VERSION DETAILS

| Drive | Firmware Version | | Hardware Version | Application | |
|--------|------------------|---------------|------------------|-------------|---------|
| | Latest Edition | First Edition | Haluwale version | Number | Version |
| IDX 56 | 0x0170 | 0x160 | 0x6751 | 0x0000 | 0x0000 |
| IDX 70 | 0x0170 | 0x170 | 0x6650 | 0x0000 | 0x0000 |

IMPORTANT INFORMATION

The functionality of an IDX drive is determined by its internal operating system (the so-called firmware). The firmware itself is subject to continuous development as part of an ongoing improvement process and is therefore being updated on a regular basis.

- IDX drives are shipped with the latest firmware version available.
- New versions may feature additional or enhanced functionality as well as improved safety-relevant functions, which might not be fully compatible with former versions!
- You can update your device with the latest available versions of firmware and «EPOS Studio» (maxon's graphical user interface for EPOS positioning controllers and IDX drives). You may access the downloads at http://idx.maxongroup.com.

Before downloading a new version, you must check for its compatibility with the hardware version you are currently using! Consult maxon if you are in doubt.

- Earlier versions are available on request.
- The currently used versions of both firmware and hardware can be read out from the controller using the «EPOS Studio».
- To install a new firmware version, use the "Firmware Download Wizard" in «EPOS Studio».
- Be aware that you alone are responsible for using the appropriate firmware version in your present device. Consult maxon if you are in doubt.

maxon or its representatives do not take responsibility nor obligation for any defect (such as, but not concluding; malfunction of the device and/or attached equipment, loss of production, etc.) caused by incompatibility of firmware versions and/ or by mismatch of a particular firmware version with a given hardware version!



VERSION HISTORY

| IDX_0170h_xxxxh_0000h_0000h (Release 2021-04) | | | | |
|---|---------------------------|---|--|--|
| Binary Files | IDX 56 | IDX_0170h_6751h_0000h_0000h.bin | | |
| | IDX 70 | IDX_0170h_6650h_0000h_0000h.bin | | |
| Features | Introduction | «IDX 70» | | |
| | Position window | Position window functionality for PPM and HMM added | | |
| | Controller identification | Optical node identification by blinking LED added | | |
| | System monitoring | Actual PWM duty cycle object added | | |
| | Drive protection | Objects to configure the undervoltage, overvoltage, and thermal overload error limits added | | |
| | Error behavior | NMT state in case of CAN heartbeat error is new configurable | | |
| | SSI encoder | Homing methods with (virtual) index added | | |
| Changes | CAN communication | Support of Node-ID 255 (undefined) added (used as default value if no valid preset) | | |
| | EtherCAT communication | Check of minimal cycle time added. Process data latency improved. | | |
| | Regulation tuning | Improvements and corrections in regulation tuning system identification | | |
| | Velocity controller | Velocity controller filter cut off frequency object (0x30A2; 0x05) added | | |
| | Position controller | Position controller I gain scaling object (0x30A1; 0x09) added | | |
| | System monitoring | System overload signalization changed to warning (instead of error) | | |
| | Bugfix | Touch probe: occasionally wrong sensor index detection corrected | | |
| | Bugfix | CAN PDO: unexpected "CAN Rx queue overflow error" at overlapping PDO and SYNC frames fixed | | |
| | Bugfix | PPM with dual loop configuration: sporadic trajectory discontinuity corrected | | |
| | Bugfix | General minor bug fixing and improvements | | |

| IDX_0161h_xxxxh_0000h_0000h (Release 2020-04) | | | |
|---|--------|---|--|
| Binary Files | IDX 56 | IDX_0161h_6751h_0000h_0000h.bin | |
| Changes | Bugfix | Transfer of occasionally incorrect actual position values via EtherCAT resolved | |

| IDX_0160h_xxxxh_0000h_0000h (Release 2019-11) | | | | |
|---|------------|---------------------------------|--|--|
| Binary Files | IDX 56 | IDX_0160h_6751h_0000h_0000h.bin | | |
| Features | Full range | Initial release | | |

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