

IQI11-FM Software Release™ Controller and Remote Browser

INTRODUCTION

This is the software release note for IQI Series tools and controller. This document details the software version, tool compatibility, connectivity support, new features and enhancements, and upgrade instructions for the release.

******Please ensure you are updating both the controller and the tool firmware versions******

******Please upgrade controller to version 1.0.0.282, before upgrading to this version******

1. Release Information

The following software releases are launched as part of this release package.

IQI Controller Firmware (.ecir)		
#	Description	Version
1	Application Version	1.0.0.299
2	Database Version	3.46.1
3	OS Version	6.6.31.8
4	Controller Version	1.0.0.49
5	Remote Browser Version	1.0.0.277

IQI Tool Firmware (.etir)			
#	Description	IQI2L Series	IQI4L Series
1	Communication Version	1.0.25.0	1.0.52.0
2	BLDC Motor Version	1.0.25.0	1.0.52.0

2. New Features and Enhancements

New Features

- **Smart Torque Arms:** Introduced the Smart Torque Arms module with encoder-based guidance to assist operators in screw positioning. Available on the IQI Controller
- **Operator Guidance on Remote Browser:** Added Operator Guidance capability with image upload and screw pattern guidance for enhanced visual instructions. This is available only on the Remote Browser.
- **Tare Torque Compensation:** Added Tare Torque Compensation. When enabled, the Target Torque is adjusted by adding the Average Prevailing Torque. The resulting target torque is validated against the High Torque Limit, and an error is generated if the limit is exceeded.
Note: Available only when the final tightening step uses Torque Control.
- **PFOP MID:** Added support for MID 2500/2501 Rev 2 messaging.

Enhancements

- **Special Characters on Job/PSET Name:** Only “_” and “-” are supported as special characters in Job/PSET names. Use of “.” may result in inconsistent parsing of PFOP data and should be avoided.
- **Job ID Arrangement:** Jobs can now be rearranged on the Jobs Screen on the Remote Browser.
- **PFOP MID0076:** Corrected issue where MID0076 alarm status was not set properly. Alarm status is now correctly set to 1 when an alarm occurs
- **AC ToolsNet:** After reboot, if ACTools Net is disabled, the PIM (Protocol Interface Module) server defaults to **192.168.4.1**.
- **Duplicate PSET Names not allowed:** Optimized the Copy PSET functionality to ensure new names do not exceed **40 characters** and are unique (no duplicates allowed).
- **Motor Optimization for IQI4 Series:** Introduced a one-time motor tuning procedure to optimize tool performance. Primarily applicable for 5 Nm, 10 Nm, and 15 Nm tools. **(This is Must for all IQI4 Tools)**
- **Controller UI Freezing Issues Fixed:** Resolved intermittent UI freezing issues that caused the bottom menu to become unresponsive.
- **Translations Fixed:** Fixed incorrect translations in exported CSV files.

Instructions for Motor Brake Optimization:

Please follow the steps below to perform the Motor Brake Optimization.

1. Turn **ON** the controller and log in.
2. Check the **Application Version** of the controller
3. Perform firmware upgrade as required:
 - If the controller is on Application version **1.0.0.282**, upgrade **directly to 1.0.0.299**.
 - If the controller is on Application version **earlier than 1.0.0.282**, perform a **two-step upgrade**:
 - Upgrade to **1.0.0.282**
 - Upgrade to **1.0.0.299**
4. Login to the controller after the upgrade is finished, and the controller has restarted.
5. Navigate to:
System Maintenance → Firmware Upgrade → Update Type → Tool
 - Select file: **Tool_20260525.etir**
 - Start the firmware update.
6. After the update completes, a message will appear indicating: **Motor Brake Optimization is required**.
7. Click **OK**.
8. Hold the tool firmly in Hand or secure using a torque arm.
9. Click **Start** when ready.
10. The tool will automatically run in forward and reverse directions. (**Do NOT press the trigger during this process**)
11. Wait until it finishes.
12. Motor Brake Optimization is complete. The tool is now tuned and ready for use.

3. Controller Upgrade Instructions

SendSafely:

- Controller versions will be available to share from SendSafely platform from below link:

SendSafely Link: [IQI SendSafely Link](#)

Instructions: [IR Tools Help - Updating Firmware](#)

- Ensure to update both the controller firmware version and the tool firmware version
- If the controller is running a application version earlier than 1.0.0.282, a **two-step upgrade is required**:
 - First upgrade to **1.0.0.282**
 - Then upgrade to **1.0.0.299**

4. Revision History

Application Version	Date	Summary of Changes	Author
1.0.0.254	8/13/2025	New features and issue resolution	Swathi Murali
1.0.0.265	10/14/2025	New features and issue resolution	Swathi Murali
1.0.0.273	12/08/2025	New features and issue resolution	Swathi Murali
1.0.17.0 (IQI2L Series) 1.0.43.0 (IQI4L Series) 1.0.0.282	1/29/2026	Updated tool firmware version New features and issue resolution	Swathi Murali
1.0.25.0 (IQI2L Series) 1.0.52.0 (IQI4L Series) 1.0.0.299	6/17/2026	Updated tool firmware version New features and issue resolution Introduced a one-time Motor Brake Optimization for Motor Tuning	Swathi Murali