

# Zebra Aurora™ MV/FIS Configuration Utility

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## Description

### Product Description

Zebra Aurora™ is a host-side application which allows for the configuration Zebra FS10, xS20, xS40 and xS70 devices.

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## Device Compatibility

Zebra Aurora™ can be used to program Zebra MV/FIS devices through these programming modes:

- USB connected cable
- M12 Ethernet

Supported Devices	Supported Device FW
FS40, VS40, FS70, VS70	CAAESS00-002-R06
FS10, FS20, VS20	CAAFFS00-002-R06

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## Release Notes

This document summarizes the following software release:

Software Version Number	Release Date
V5.0.13000	February 2023

## V5.0.13000

### RELEASE DATE: FEBRUARY 2023

- Technology Previews
  - Aurora and HMI Language Support – Simplified Chinese, Korean, German, French and Spanish
  - Expanded ZETI Interface Commands
- Tools

- Deep Learning Based OCR for Fixed Industrial Scanners
    - Fully Released – Activated via Licenses
  - Performance
    - Improvements to deployed job run consistency including Barcode tool timeout, decoding, and trigger timing consistency.
    - Level Trigger Enhancements
    - Triggered Image Buffering
  - UX Improvements
    - Backup/Restore/Firmware Upgrade in Aurora
  - Device Configuration 1D Parameter Barcode Setup
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## Known Issues

- Rarely, a barcode tool can sometimes fail on certain images if it follows a machine vision tool.
  - **Resolution:** Move barcode decode tool to run before the machine vision tool.
- When viewing a circle tool that failed in the HMI, it will sometimes cause the HMI to not refresh and will display a blank page.
  - **Resolution:** Use Aurora to inspect the details of a failing circle tool.
- When a user needs to change a device USB IP address, they must first disable the DHCP server option and then re-enable it again afterwards.
- When executing the ZETI command 'Trigger with result', after using the 'Deploy Job', the trigger command can sometimes fail.
  - **Resolution:** Add a 2 second delay or more after the 'Deploy Job' command.
- When using ZETI, any command that has a job slot option, the job slot must be specified for this release.
- The ZETI command line 'help' command is not complete. Please refer to ZETI documentation for comprehensive overview of the command set
- When in Edit mode in Aurora, setting the GPIO Hardware Trigger falling edge can cause the trigger to use the rising edge instead.
  - **Resolution:** Set the edge back to rising and then back to falling in the drop-down menu.
- If a device is added to Aurora by IP address, the Aurora Firmware Dual Update will not complete the Dual Update.
  - **Resolution:** Use HMI if Dual Update is required.

- Flaw detection tools have to click 'Undo' twice to perform the undo operation.
- When using Aurora for viewing a running barcode job, sometimes decode summary will fail to get updated.
  - **Resolution:** Close the job being viewed and reopen the job again in view mode.
- Device will sometimes not be discoverable in Aurora when starting firmware update in HMI. Device will re-appear once the firmware update completes and reboots
- After updating the firmware, some jobs will not be able to be changed using the HMI.
  - **Resolution:** Run "User Settings" reset in HMI (must be admin)
- Rarely, the HMI may not appear through the display port unless the device is rebooted.
- Autotune will sometimes fail at a range of ~200mm on 2D barcodes only, if illumination is off
  - **Resolution:** Ensure adequate light is available, either with continuous light or enabling the LED lights on the device.
- When generating a backup, if done after setting the time zone, the backup may fail.
  - **Resolution:** Reboot device after time zone change if planning to backup.
- When setting the TCP Heartbeat string in Aurora, nonstandard ASCII characters may cause the heartbeat to not be sent.
  - **Resolution:** Ensure any heartbeat string the user defines uses standard ASCII characters only
- When reordering tools in Aurora that have dependencies on other tools, the reordered tool may not be able to be edited.
  - **Resolution:** Remove and re-add the tool back to the workflow.
- Certain special characters in a job name cause the job results image folder to not allow download from the device.
  - **Resolution:** Use only standard characters for job names
- In some cases, using large number of image banks cause slight delays in processing.
- After upgrading the device firmware, USB options may be grayed out.
  - **Resolution:** Perform User Setting Reset from HMI and update device settings after.
- Firmware update will fail if memory consumption is already high.
  - **Resolution:** Reboot the device and upgrade
- Uninstalling the InstallShield does not always remove all registry entries.
  - **Resolution:** regedit and manually delete Aurora folder under Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Zebra

## Release Notes (Previous Releases)

### V4.0.22000

#### RELEASE DATE: DECEMBER 2022

- Added Measure Object Tool
- Added Flaw Detection Edge and Intensity Tools
- Added Object Locate Counting
- Added Image Filters: Gradient, Gradient Horizontal, Vertical and Full
- MV Output Formatting on Supported Interfaces (Global or Interface Specific)
- Added Find and Replace to Barcode Decode Tool
- Improved 1D/2D Barcode Decode Performance
- Setting Barcode Match String via TCP or Serial input
- Added Image Download Capability via HMI
- Enhanced Session Based Triggering for Level, Continuous and Presentation Triggers w/Exit Criteria/Aggregation
- Technology Preview: Device Backup/Restore Functionality
- Performance and Stability Enhancements

### V3.1.40000

#### RELEASE DATE: AUGUST 2022

- Added Reset on Trigger for Do Note Read Same Barcode
- Spanish HID Keyboard support
- Performance and Stability Enhancements

### V3.0.10000

#### RELEASE DATE: JUNE 2022

- Added Edge Counting
- Added Deep-Learning Based OCR Tool (*in Beta*)
- Added Circle Find Tool
- Added Circle Diameter Measurement Tool
- Added a Circle ROI Type
- Added Open and Close Filters
- Added Erode Filter

- Added RS-232 Input Trigger
- Additional 2D Barcode Performance Improvements
- Added ADF to include Pass/Fail Data Types
- Added ADF to include Barcode Quality Metrics Data
- Performance and Stability Enhancements

## V2.0.8000

### RELEASE DATE: APRIL 2022

- Performance and Stability Enhancements

## V2.0.7000

### RELEASE DATE: MARCH 2022

- Performance and Stability Enhancements
- 1D Barcode Quality Metrics
- Added Object Locate Plus
- Added Blob Tools
- Added Binarize Filter/Tool
- Added Dilate Filter/Tool
- ImagePerfect(+) fixes & improvements
- Added Scale Calibration for Distance tool
- Added Advanced Pass/Fail Configuration (AND/OR logic for Job results)
- HID Keyboard Expansion – added French and German KB
- Added support for Codabar symbology
- Added Encoding type (Text/Base64) for ADF Full String data type and added option to show non-printable characters as hex values
- For xS10/20, added external illumination support
- Added “File Path” option when using (S)FTP to Save images
- Added Ability to Open a Local Job (created with emulator) On a Real Connected Camera

## V1.200.2001

### RELEASE DATE: DECEMBER 2021

- Performance and Stability Enhancements

- Support for 5MP xS40 and xS70 models
- ImagePerfect(+) for FS models
- Option to output Barcode Location Co-ordinates
- Option to not read last n number of barcodes
- Device can be a TCP/IP Client
- Configurable RS-232 settings
- Ability to configure GPIO Trigger delay
- Support for Fast Hardware Trigger (2.3 MP models only)
- Ability to set GPIOs to static high or low
- Added Job controls to clone, rename and delete jobs
- Support for Conditional Regular expressions for Barcode String Match
- Barcode String Match Regular expression support for ManyCode
- Backwards compatibility of Job files
- Decode and MV statistics in Aurora and HMI stored and queried from device

## V1.148.0001

### RELEASE DATE: OCTOBER 2021

- Performance Enhancements
- Stability Improvements
- Implementation of licensing error messages in Web HMI
- Fixed issue of Job pausing on refresh of Web HMI
- Fixed issue of crash when clicking on "Communications" tab
- Fixed inability to "View" active Jobs from Job menu when Job utilizes a trigger that is automatic in nature.
- Fixed issue of slow decode rate when "Fast 1D/2D" license is enabled
- Added Configurable TCP/IP – results port and trigger string can be configured
- Support for GPIO > Hardware trigger (normal speed)
- Allow setting a job as Startup / Power up job
- Emulators now have license level
- Supports a total of 21 emulators
- ZJOB backwards compatibility and auto conversion of old job files (Windows only)
- Seamless (live) tool changes when Upgrade licenses are applied

## V1.134.0001 – Initial Product Release

**RELEASE DATE: JULY 2021**

- Bug Fixes
- Stability Improvements

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### Components

SW Component	Version
InstallShield	5.0.13000
Aurora™	5.0.13
BSP (xS40/70)	CAAESS00-002-R06
BSP (FS10/xS20)	CAAFFS00-002-R06
Aurora™ HMI	2.1.00

The components are installed in the following folders:

Component	Location
Application	Program Files\Zebra Technologies\Aurora
Job/Configuration Files	Users\Public\Documents\ZebraAurora\xSx0\Jobs
Saved Images	Users\Public\Documents\ZebraAurora\Captures\xSxxxxxx Camera

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## Minimum PC Requirements

Component	Location
CPU	Intel or AMD 64-bit processor
Random Access Memory Files	4 GB   Recommended: 8GB
GPU	GTX 1030, Intel UHD 620 or equivalent
Graphics Memory	2GB   Recommended: 4GB
Disk Space	4GB free disk space
Monitor Resolution	1280 x 800   Recommended: 1920 x 1080
Operating System	Windows 10
Internet Connection	Required for software activation

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## Installation

**Aurora™ can be launched from the Windows 10 Start button.**

- Start / All Programs / Zebra Scanner / Zebra Aurora