

# Zebra Aurora™ MV/FIS Configuration Utility

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## Description

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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	CAAESS00-001-R45
FS10, FS20, VS20	CAAFFS00-001-R45

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## Release Notes

This document summarizes the following software release:

Software Version Number	Release Date
V3.1.40000	August 2022

### 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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### Known Issues

- When editing a job on the camera, it can sometimes take up to 30 seconds for the Edit mode to complete, if the job has been running for a long time.
- When using Profinet and running a job for a long time, users should not use the HMI Dashboard View and instead use the Live Monitoring View. The Dashboard View can sometimes impact job performance.
- When using custom trigger string, using the NULL “\0” terminator is not working.
- The Data code tool does not yet support Decode time on results for TCP and other Interfaces
- When modifying certain parameters on Locate Object tools, when object is complex or large, an additional delay occurs. This occurs during setup only.
- When fixturing to the Circle Tool, if the found circle changes from the original expected size, this can cause a shift the location of the fixtured ROI.

- Switching between different HID modes (USB/CDC and HID-KB) can sometimes take extended time.
- External illumination does not turn ON when running a job created with a previous (non-current) firmware version.
  - **Resolution:** Enable/Reenable External Illumination
- In some cases, External Illumination cannot be turned off when in NPN mode
  - **Resolution:** Switch back to PNP mode before turning off
- On FS10, certain hubs cause USB interfaces (both RNDIS and HID) to break on HID Keyboard re-enumeration
  - **Resolution:** Disconnect and reconnect USB cable.
- Firmware update is failing with “Invalid plugin file” when FW plugin filename has special characters (i.e. space , parentheses, etc)
- Firmware update will fail if memory consumption is already high.
  - **Resolution:** Reboot the device and upgrade
- “Image Saving” logic does not take into account “Advanced Pass/Fail Configuration” or local “Disabling” of tool
- Uninstalling the InstallShield does not always remove all registry entries.
  - **Resolution:** regedit and manually delete Aurora folder under Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Zebra\

## Components

SW Component	Version
InstallShield	3.1.40000
Aurora™	3.1.40
BSP (xS40/70)	CAAESS00-001-R45
BSP (FS10/xS20)	CAAFFS00-001-R45
Aurora™ HMI	1.0.44

The components are installed in the following folders:

Component	Location
Application	Program Files\Zebra Technologies\Aurora

Job/Configuration Files	Users\Public\Documents\ZebraAurora\Xs0\Jobs
Saved Images	Users\Public\Documents\ZebraAurora\Captures\Xsxxxxx 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