



# Saphyr<sup>®</sup> ICS v3.1.4 Release Notes

Document Number: 30230

Document Revision: A

## Table of Contents

---

Legal Notice .....	3
Revision History .....	4
Saphyr® ICS .....	4
Introduction .....	4
Compatibility .....	4
ICS v3.1.4 Highlights .....	5
User Interface and Functionality .....	5
ICS v3.1.4 Tickets .....	5
Technical Assistance .....	6

## Legal Notice

---

### **For Research Use Only. Not for use in diagnostic procedures.**

This material is protected by United States Copyright Law and International Treaties. Unauthorized use of this material is prohibited. No part of the publication may be copied, reproduced, distributed, translated, reverse-engineered or transmitted in any form or by any media, or by any means, whether now known or unknown, without the express prior permission in writing from Bionano Genomics. Copying, under the law, includes translating into another language or format. The technical data contained herein is intended for ultimate destinations permitted by U.S. law. Diversion contrary to U. S. law prohibited. This publication represents the latest information available at the time of release. Due to continuous efforts to improve the product, technical changes may occur that are not reflected in this document. Bionano Genomics reserves the right to make changes in specifications and other information contained in this publication at any time and without prior notice. Please contact Bionano Genomics Customer Support for the latest information.

BIONANO GENOMICS DISCLAIMS ALL WARRANTIES WITH RESPECT TO THIS DOCUMENT, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE FULLEST EXTENT ALLOWED BY LAW, IN NO EVENT SHALL BIONANO GENOMICS BE LIABLE, WHETHER IN CONTRACT, TORT, WARRANTY, OR UNDER ANY STATUTE OR ON ANY OTHER BASIS FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING BUT NOT LIMITED TO THE USE THEREOF, WHETHER OR NOT FORESEEABLE AND WHETHER OR NOT BIONANO GENOMICS IS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### **Patents**

Products of Bionano Genomics may be covered by one or more U.S. or foreign patents.

### **Trademarks**

The Bionano Genomics logo and names of Bionano Genomics products or services are registered trademarks or trademarks owned by Bionano Genomics in the United States and certain other countries.

Bionano Genomics®, Irys®, IrysView®, IrysChip®, IrysPrep®, IrysSolve®, Saphyr®, Saphyr Chip®, and Bionano Access™ are trademarks of Bionano Genomics, Inc. All other trademarks are the sole property of their respective owners.

No license to use any trademarks of Bionano Genomics is given or implied. Users are not permitted to use these trademarks without the prior written consent of Bionano Genomics. The use of these trademarks or any other materials, except as permitted herein, is expressly prohibited and may be in violation of federal or other applicable laws.

© Copyright 2018 Bionano Genomics, Inc. All rights reserved.

## Revision History

Revision	Notes
A	Initial Release

## Saphyr® ICS

This document describes the v3.1.4 release of Saphyr ICS (Instrument Control Software). In this document we will provide an overview of what is changing with this release so that you may better understand the impact of moving to this version of ICS. Should you have any questions, please contact [support@bionanogenomics.com](mailto:support@bionanogenomics.com).

## Introduction

Saphyr ICS v3.1.4 is a new release of our instrument control software which provides the Saphyr instrument user with an interface for operating the instrument. ICS is designed to run in a Windows 10 environment on the PC supplied with the Saphyr instrument. **ICS v3.1.4 must be installed by Bionano Customer Solutions Team.**

## Compatibility

Saphyr ICS v3.1.4 is compatible with Bionano Access® v1.1 and higher. ICS v3.1.4 changes have not affected data quality. Therefore, assemblies generated from data captured by ICS v3.1.4 are comparable to ICS 3.1.3.

## ICS v3.1.4 Highlights

### User Interface and Functionality

Improvement	Description	Associated JIRA Ticket(s)
<b>DNA Loading Improvement</b>	<ul style="list-style-type: none"> <li>Improved DNA detection algorithm to improve DNA wavefront detection during adaptive loading</li> <li>Updated the re-optimization trigger threshold</li> <li>Limit re-optimization attempts to 3</li> <li>Apply default recipe duration if wavefront not found</li> </ul>	ICX-2491
<b>Laser Usage Logging</b>	Added additional laser head hours logging to allow service users to audit the amount of runtime	ICX-2457
<b>Bug Fix</b>	Fixed an issue where the authentication with Access would timeout after 30 days of continuous connection.	ICX-2400
<b>Bug Fix</b>	Fix an issue that could stop a run if a laser failed to respond with its temperature data.	ICX-2080
<b>Focus target corruption on failed alignment</b>	Previously a failed chip alignment could cause the focus target to be temporarily corrupted until the application was restarted. This was fixed by no longer performing fine image based focus and changing the target, but instead using the focus hardware target unchanged.	ICX-2553

### ICS v3.1.4 Tickets

Summary	Issue Key
<b>Access Authentication Token Expired</b>	ICX-2400
<b>Automatically log the Sapphire laser head and power supply usage hours</b>	ICX-2457
<b>3.1.4 Release adaptive loading updates</b>	ICX-2491
<b>Fix for failure to get laser temperature 3 times in a row kills run</b>	ICX-2080
<b>Merge PSD/AFM focus for alignment instead of image based fine focus</b>	ICX-3432

## Technical Assistance

---

For technical assistance, contact Bionano Genomics Technical Support.

You can retrieve documentation on Bionano products, SDS's, certificates of analysis, frequently asked questions, and other related documents from the Support website or by request through e-mail and telephone.

Type	Contact
Email	<b>support@bionanogenomics.com</b>
Phone	<b>Hours of Operation:</b> <b>Monday through Friday, 9:00 a.m. to 5:00 p.m., PST</b> <b>US: +1 (858) 888-7600</b>
Website	<a href="http://www.bionanogenomics.com/support">www.bionanogenomics.com/support</a>