Contents

Chapter 1 Overview ................................................................................................................................................ 4
  1.1 Introduction .................................................................................................................................................... 4

Chapter 2 IrysView® Software Installation ........................................................................................................ 5
  2.1 System Requirements .................................................................................................................................... 5
  2.2 Prerequisites .................................................................................................................................................. 5
    2.2.1 Microsoft .NET 4.5.2 Runtime .............................................................................................................. 5
    2.2.2 Windows Python Runtime .................................................................................................................. 5
    2.2.3 Auto Detect Application v2.1.4 (optional) .......................................................................................... 5
    2.2.4 Install Windows RefAligner (v5122) and Windows Assembler (v5122) .............................................. 5
    2.2.5 Configuration Clean Tool (optional) ................................................................................................... 5
  2.3 Install IrysView v2.5.1 .................................................................................................................................. 6
    2.3.1 Updating from previous IrysView versions .......................................................................................... 6
    2.3.2 Fresh IrysView installation ................................................................................................................ 6
  2.4 Knickers ......................................................................................................................................................... 6
Legal Notices

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® and IrysSolve® 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 2016 BioNano Genomics, Inc. All rights reserved.
Chapter 1 Overview

1.1 Introduction

This manual describes how to install the genomics analysis software, IrysView® v2.5.1, to analyze and visualize data generated by the Irys® instrument. To understand what features have been added or modified since our last release please review the release notes.
Chapter 2 IrysView® Software Installation

2.1 System Requirements

IrysView supports Windows OS 64-bit systems only.

Note: Local system administrator privileges are required for installation and running of IrysView.

2.2 Prerequisites

2.2.1 Microsoft .NET 4.5.2 Runtime

- If not already installed, download from: Microsoft .NET Framework 4.5.2

2.2.2 Windows Python Runtime

Note: Skip if already installed. Accept default installation path during installation.

- Run python-2.7.5.msi from: http://www.bnxinstall.com/tools/python-2.7.5.msi

2.2.3 Auto Detect Application v2.1.4 (optional)

Note: Required installation if you wish to convert .tiff images to digitized molecules and labels.

- Click install from: http://www.bnxinstall.com/autodetect/autodetect.htm

2.2.4 Install Windows RefAligner (v5122) and Windows Assembler (v5122)

Note: Accept default installation path during installation.

- Uninstall the current versions from Control Panel → Program and Features RefAligner and WindowsAssembler.
- Run Setup file from: http://www.bnxinstall.com/RefalignerAssembler/Windows/r5122/RefAligner.msi

2.2.5 Configuration Clean Tool (optional)

- Clean previous configuration settings of IrysView.
- Click install from: http://bnxinstall.com/tools/clean/CleanIrysViewConfigs.htm
2.3 Install IrysView v2.5.1

2.3.1 Updating from previous IrysView versions

- If internet connection is available, IrysView will automatically update from the web. By launching IrysView from Start Menu → All Programs → IrysView, a pop up will notify the user of a more current version. Click OK to accept the latest version. The Configuration Clean Tool will run automatically without user intervention.

- If the user chooses Cancel, the current installed version will start.

2.3.2 Fresh IrysView installation

- Uninstall previous IrysView versions from Control Panel → Program and Features.
- Install IrysView 2.5.1 from: http://bnxinstall.com/IrysView/irysview.htm
- Check the version of all necessary Windows components of at least IrysView 2.5.1, by clicking on the tab Help and About IrysView.

2.4 Knickers

- Knickers is used to convert FASTA files to BioNano CMAP file format. Knickers should be used for all genomes larger than 100MB.

http://www.bnxinstall.com/Knickers/Knickers.htm