



Data Sheet

GeneChip® HT Array Plate Scanner

Accelerate discovery

As part of the Affymetrix HT System, the GeneChip® HT Array Plate Scanner is designed to scan and create high-resolution images of GeneChip® HT Array Plates at an unprecedented rate.

Efficient, accurate and precise

The HT Array Plate Scanner automatically focuses on and scans individual arrays on all HT Array Plates and delivers the highest quality and quantity of genomic information.

Easy to use

The HT Array Plate Scanner has a streamlined graphical user interface that is intuitive, simple to use and features software controls that create an optimized workflow.

Introduction

The GeneChip® HT Array Plate Scanner is a part of the Affymetrix® GeneChip® HT System, which offers high-throughput capabilities to enable researchers to complete large projects efficiently.

Discover the benefits of the GeneChip HT Array Plate Scanner:

- Flexible configuration for scanning all GeneChip® HT Array Plate formats and applications
- Specially designed auto-focus optics for increased throughput with uncompromised image quality
- Fast scan times improve workflow and productivity
- 12-bit CCD imaging system for superior dynamic range
- Simplified workflow and optimized user interface
- Smaller footprint that frees up valuable bench space

Features

The GeneChip HT Array Plate Scanner comes standard with:

- Internal, automatic barcode reader
- GeneChip HT Software Suite, featuring instrument control, image analysis and data visualization software
- Dual-core processor computer workstation for instrument control (Windows XP Professional O/S)



Imaging

The GeneChip HT Array Plate Scanner leverages state-of-the-art imaging technology to provide accurate and reliable data. The scanner includes a high-intensity LED excitation source and fast illumination optics to deliver efficient, uniform illumination to the array. This ensures that exposure time is kept to a minimum while throughput is maximized.

The custom-designed imaging optics and 12-bit CCD camera capture clear images for precise analysis. Additionally, the CCD detection system delivers data sets from GeneChip HT Array Plates that are uniform and reproducible, allowing researchers to share and compare data more easily, regardless of throughput requirements.

Specifications

Illumination System:	<ul style="list-style-type: none">• 520 nm high-intensity LED• High-speed auto-focus algorithm assures uniform illumination intensity of each individual array
Imaging:	<ul style="list-style-type: none">• Automated epifluorescence microscope• High-resolution CCD imaging with 12-bit readout• Diffraction-limited imaging optics for fluorescence emission wavelength range 570 nm to 610 nm• Pixelation: 1.0 μm• Field of View: 1344 μm x 1024 μm
Mechanical:	<ul style="list-style-type: none">• Z (focusing) stage with better than 1 μm resolution• X-Y stage can accommodate a standard microtiter plate footprint• Asynchronous control of all motion devices
Dimensions:	16" (29 cm) W x 29" (76 cm) D x 26" (66 cm) H
Weight:	145 lbs (66 kg)
Line Voltage*:	100 to 240 VAC
Current:	2.8 to 1.2 A
Frequency:	50-60 Hz
Working Environment:	
Temperature:	59°F-85°F (15°C-30°C)
Humidity:	10-90% Non-condensing
Clearance:	2" (5 cm) in rear 12" (30.5 cm) on left side
Pollution Degree:	2
Installation Category:	II
Altitude:	<2000 m
Warranty:	One year limited coverage

* Main supply voltage fluctuations are not to exceed $\pm 10\%$ of the nominal supply voltage

The HT Array Plate Scanner is intended for research use only and is not for use in diagnostic procedures.

AFFYMETRIX, INC.

3420 Central Expressway
Santa Clara, CA 95051 USA
E-mail: support@affymetrix.com
Tel: 1-888-362-2447 (1-888-DNA-CHIP)
Fax: 1-408-731-5441

AFFYMETRIX, UK Ltd.

Voyager, Mercury Park,
Wycombe Lane, Wooburn Green,
High Wycombe HP10 0HH
United Kingdom
E-mail: supporteurope@affymetrix.com
UK and Others Tel: +44 (0) 1628 552550
France Tel: 0800919505
Germany Tel: 01803001334
Fax: +44 (0) 1628 552585

Ordering Information

GeneChip® HT Array Plate Scanner

GeneChip® HT Array Plate Scanner
00-0332 GeneChip® HT Array Plate Scanner

To Order

North America

888-DNA-CHIP 888-362-2447

Europe

+44 (0) 1628 552550


Japan

+81-(0)3-5730-8200

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