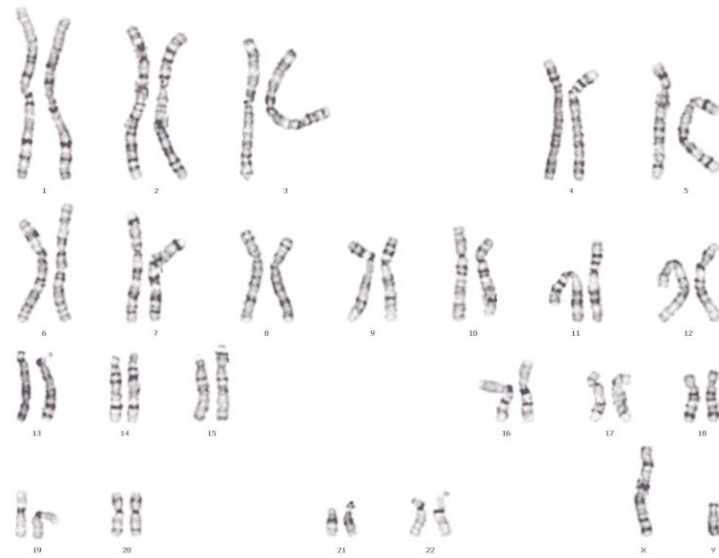


# ARGENIT

## AKAS Chromosome Analysis System



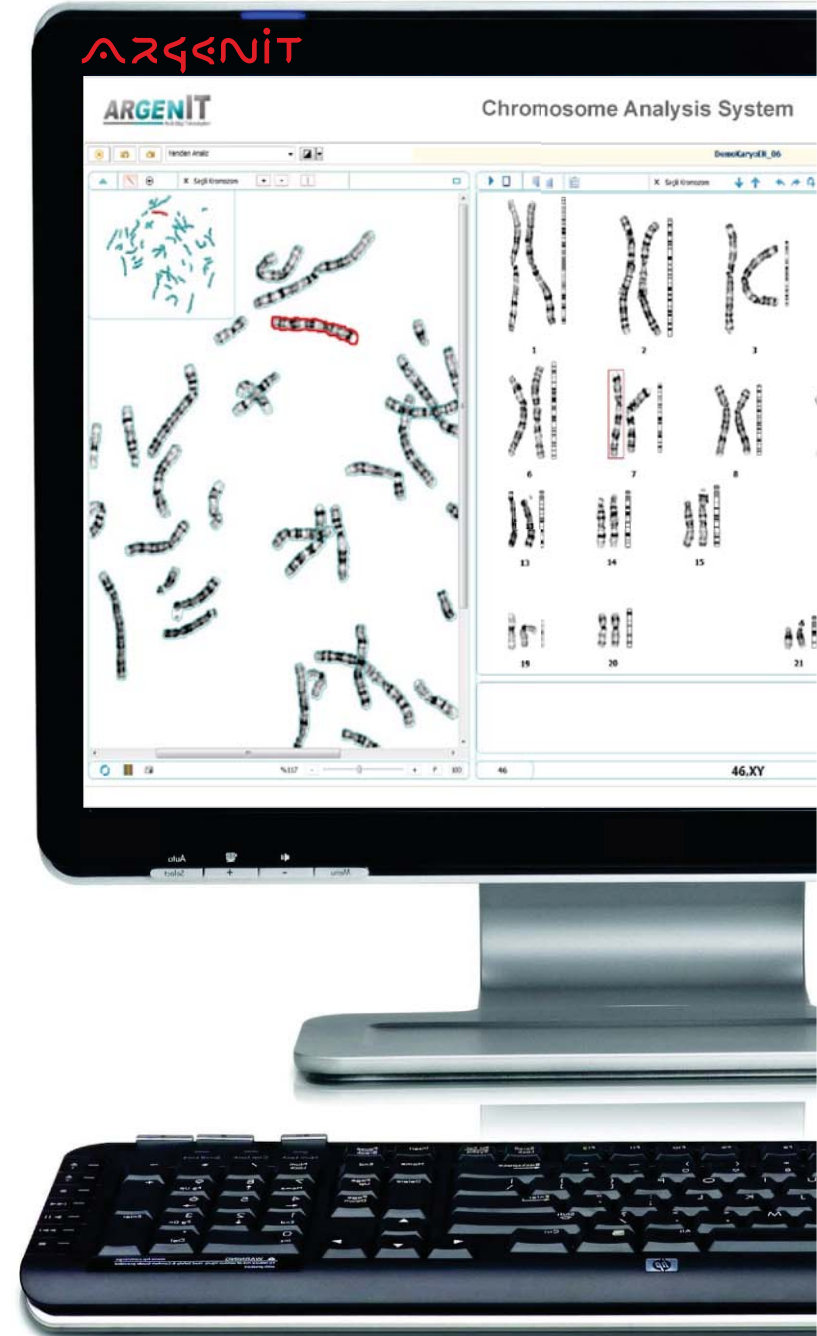
Automatic Metaphase Scanner - Automatic Karyotyping System - Excellent Image Resolution  
Advanced Image Processing Algorithms - Olympus BX53 - BX61 Research Type FL Microscopes  
12-bit 2/3-inch Monochrome Camera - All In-One PC - Compatible with Windows 8 - Touch Screen  
Color Laser Printer - 2 Tb External Hard Disk - Archiving Unit - DAPI-TxRED-FITC-Gold - Triple-  
Aqua Fluorescence Filter Set - Registration of Original-Processed and Analyzed Images of Metaphase  
Automatic or instant data archiving - Call data from archive - Grayscale Profile Demonstration  
Director review feature for Metaphase - Keyboard Shortcuts - Chromosome Flattening - Ideogram Editor  
Sentromer Demonstration - ISCN 2009 classification 300-400-500-550-700 and 850 Bandwidth  
Ideo-gram Display - 200 preperat load capacity Fully automatic preperate scan - Gallery Module  
Barcode Reading Feature - Automatic Lipstick Feature - Client & Server Architecture Support  
Motorized X-Y-Z movement, motorized Focus - Motorized lens replacement - Automatic light adjustment -  
Motorized fluorescent filter replacement - 100 W halogen visible illumination - 200 W LED fluorescent lighting

ISO 9001 - ISO 13485 - CE Certificate - Local Property Certificate - Easy to use English Interface

AKAS Karyotyper Automatic Karyotyping System is for research use and can not be used for medical diagnosis.  
Some parts in the catalog are optional accessories.

**ARGENIT SMART INFORMATION TECHNOLOGIES LTD.**

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# AKAS

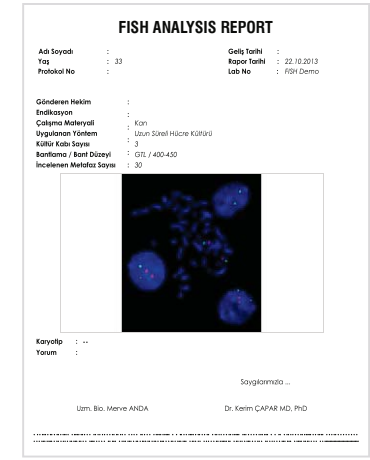
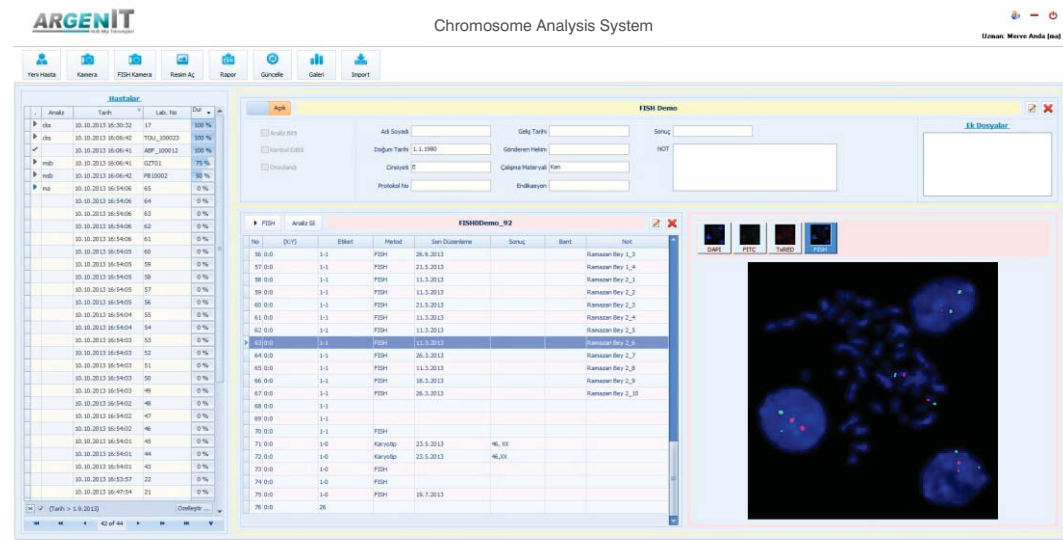
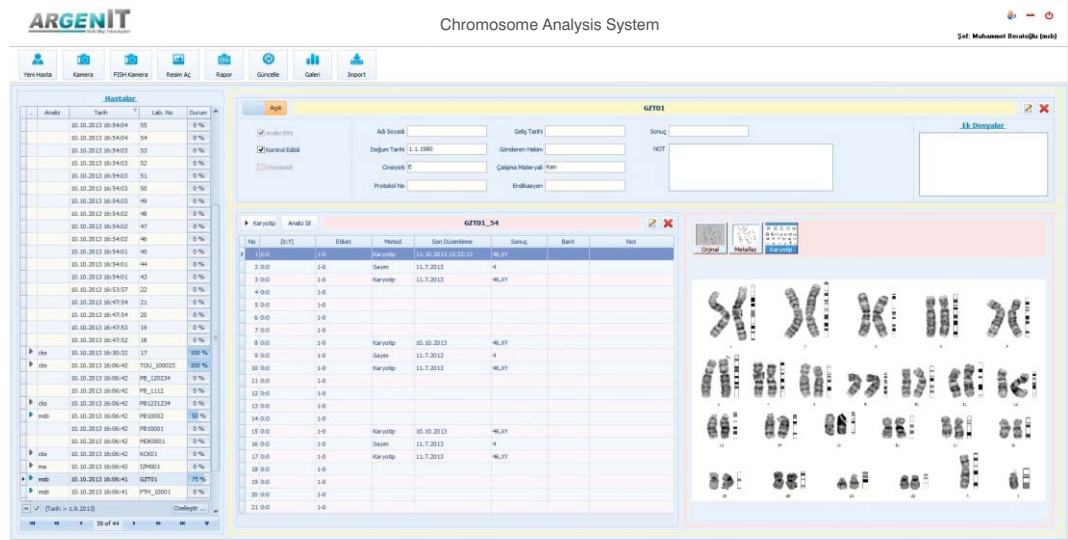
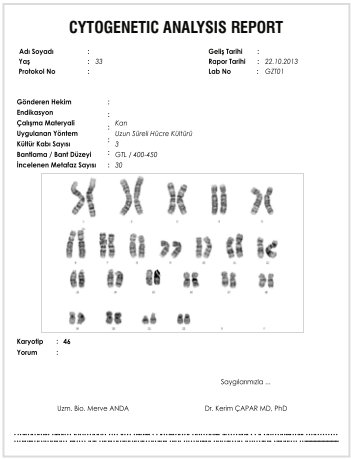
Automated Karyotyping System

# AKAS

## Automated Karyotyping System

Zeiss-Olympus-Nikon-Leica Brand Research Type Microscopes and SONY CCD medical sensor with superior optic quality The Karyotyper Karyotyping System integrated with Cameram 2 Imaging Systems has an easy to use and understandable English user interface.

AKAS Karyotyper Genetic Diagnosis Assisted Karyotyping System project is a project supported by Istanbul Technical University, TUBITAK, Ministry of Science and Technology and receiving the First 500 Companies of Informatics award every year with its activities in this scope.



### Smart Data Management:

AKDATA MANAGEMENT is a user-friendly environment, providing an easy way to find and review cases that functions as a count sheet, data storage and management tool. AKDATA was designed around the paperless lab concept, and provides as much data as possible in a single view for ultimate functionality.

AKDATA is integrated, clinical utilities for multi-application support for pathology and cytogenetics and flexible data management and storage options meet the needs of any size laboratory or multi-site laboratories. Advanced multiple-user access and user permission management mechanism can be made and can support Multi-language operation.

### Automated MetaPhase Finder:

AKAS Automated MetaPhase Finder improves workflow efficiency. The Automated MetaPhase Finder scans the entire slide, locating and capturing the best metaphases and remembering their coordinates in minutes. The Automated MetaPhase Finder is also supported by robotic slide loader, allowing 200 slides to be loaded in a single batch, reloaded without disrupting system operation, and providing labs with 24x7 continuous scanning and analysis. During review, it is always possible to return to the exact coordinates under the microscope by clicking on a metaphase in the image gallery. Built-in barcode reader and automatic oil dispenser makes the system 7/24 working high throughput walk-away station.

### Report, Archive and Data Mining:

Karyotyping Analysis Results can be exported to Report page just one click. You can design your own report page template with your corporate logo and corporate details. Your report page can be design in various page sizes and page formats (PDF, Word, Excel, etc.). Also you can E-mail your reports. With Our unique feature, you can hide sex chromosomes on your reports with one click. AKAS Smart Archive System, AKDATA , will provide you to store all the needed patient details and Karyotyping-FISH results automatically. You can upload every details and filter the needed information for Data Mining of the patients history.

### AKAS Karyotyper Analysis Platform:

AKAS Karyotyping Analysis Platform gives you an easy merge of chromosomes with convenient "Drag & Drop" feature and cut-paste tool for instances of chromosome translocation. Automated image enhancement and automatic separation of overlapping chromosomes is done by just one click. On screen comparison of genetic samples for determining inheritance is very easy to perform. AKAS is also makes the automatic chromosome alignment and distinct coloring of chromosomes for easy identification and separation. Annotation tools, Multi-chromosome review and comparison panel is also only one click ahead.

### Multi-Species Chromosome Analysis System:

With Multi-Species Chromosome Analysis System, you can karyotype over any plant and animal genetics. You can capture the metaphase images of the selected cells and align the chromosomes to the karyotype chart due to the morphological specification. You can also export the statistical details of the karyotypes and report as desired. Karyotype chart, chromosome measurement details and ideogram graphics will be made automatically. You can add the new species to the ideogram library and create the dendrogram of the observed species.

### DNA FISH Probes and Consumables :

- \* Deletion - Amplifications Probes
- \* DNA Split FISH Probes
- \* DNA Fusion FISH Probes
- \* Centromeric FISH Probes
- \* Telomeric FISH Probes
- \* FISH Deparaffinization and Pretreatment Kit
- \* DAPImiks

### Manuel Count and XY Reader:

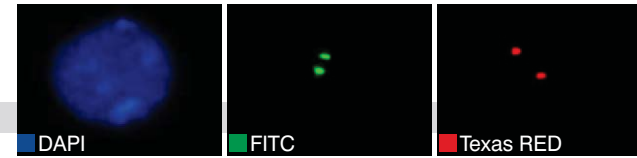
AKAS Karyotyper System is fully suitable with the control of touch screen technology and manuel count operations can be made with touch on a screen. Every touch will be spotted with colors. That makes counts very easy and efficiently. You can make your counts over chromosome twins and program shows you the abnormalities in different colors while you are counting. Counted metaphases are automatically exported to Report Page. Thanks to the XY Coordinator, you can optionally adapted your manuel microscope to XY Coordinator that saves your XY Coordinates every time for your repeatability. The XY Reader expands the capabilities of any manual microscope to automatically read and list the cell's XY coordinates in real-time.

### easy FISH

#### SPOT Count - FISH Scoring - SPOT Gallery

Interphase cell nuclei are found automatically by motorized microscopy. Normal - Abnormal cells are counted and scored according to FISH probe. Counting and scoring can also be done manually. All spots can be viewed as galleries. A high resolution digital slideshow image of the corresponding FISH field is created. Measurement results and statistics are automatically added to the report page.

### FISH Analysis & Imaging:



FISH Module is a multicolor image capture and enhancement software module. It enables users to perform image enhancements, annotations, sharing, printing and report generation. Generally used within a manual workflow, AFISH allows users to perform analysis on single FISH images and cells also.

- \* Can be adapted manual and automatic microscopes
- \* Automatic Z-axis control for auto focus, Z-stacking and 3D data export
- \* Automatic XY motorized stage to save time
- \* Support for any number of filters and multiple automated filter wheels
- \* Easy automated multi-layer imaging
- \* Automatic exposure control and image enhancement, fully automatic with no user interaction
- \* User-defined image capture region
- \* Enhanced quantitative support for signals and cells intensity and morphology
- \* Powerful automatic and manual control over contrast, brightness, and sharpness levels of the entire image as well as individual signals
- \* Automatic background correction to compensate for microscope and sample non-uniformities. Robust image analysis.
- \* Also background subtraction is available.
- \* Automatic and manual segmentation to obtain the morphology and intensity of each object, complete with its color layers
- \* Dedicated detection and quantification of multiple small signals
- \* Can choose the probes from the branded charts and see the every details of the probe.