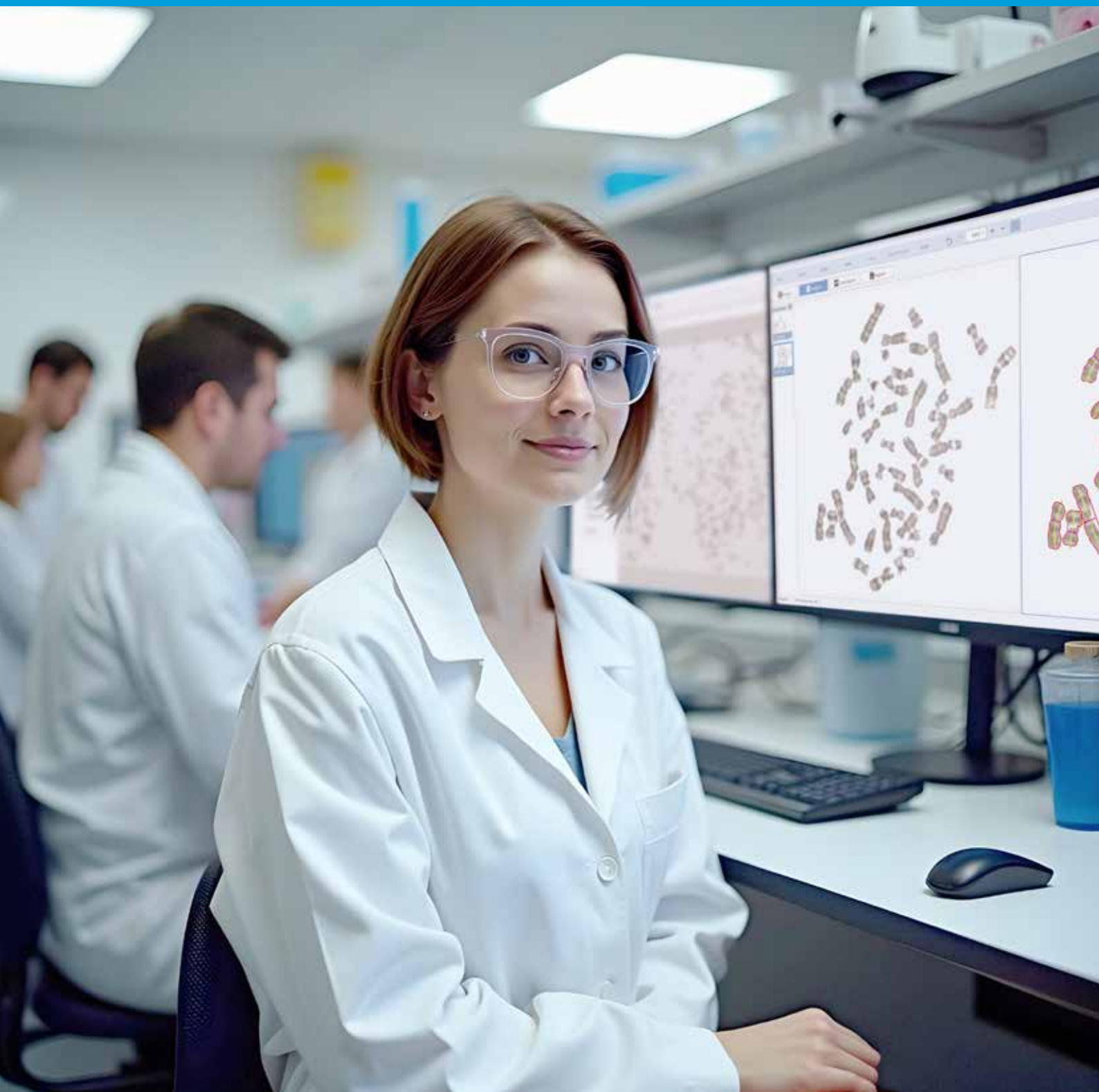


## Digital Scanning Analyzers for Cytogenetics



## Vision Assist



### Key features

- Loading 1 or 4 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- For small and medium-sized laboratories

### Scanning process



01

Place the slide to the slide holder



02

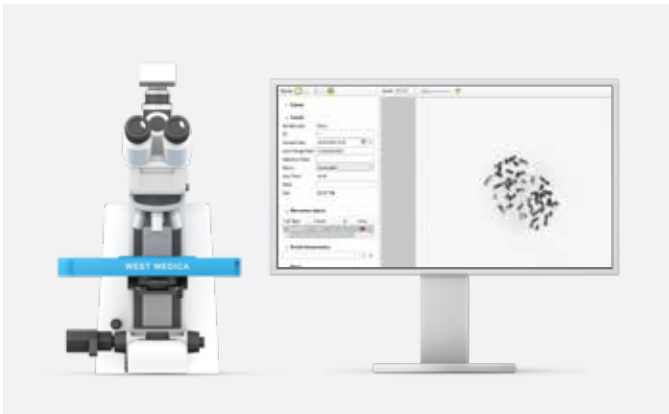
Install into the slide scanner and start scanning



03

Get the result!

## Vision Pro



- Loading 4 or 8 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- Random access
- For medium and large laboratories

## Vision Ultimate 120



- Loading 120 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- High scanning speed and image capture of the whole sample
- Random access and testing of urgent samples
- Night shift work without an operator
- For centralized and large-sized laboratories

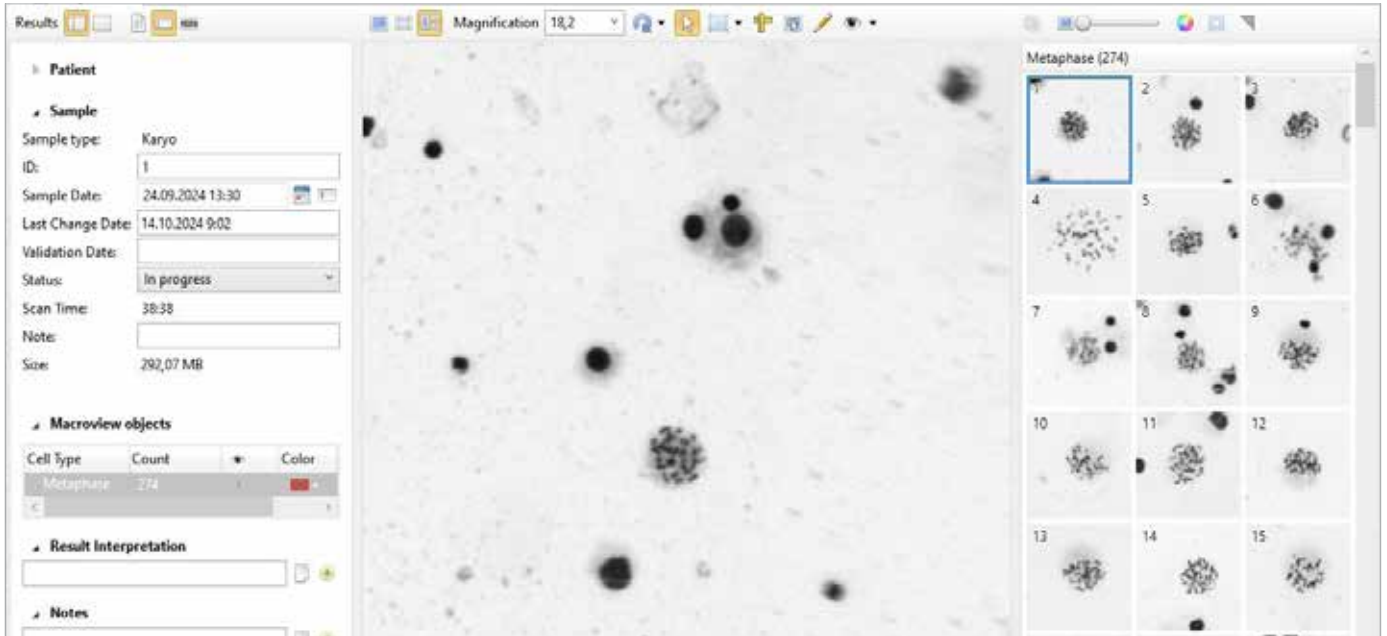
## Vision Ultimate 200



- Loading 200 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- High scanning speed and image capture of the whole sample
- Random access and testing of urgent samples
- Night shift work without an operator
- For centralized and large-sized laboratories

## Vision Metaphase Finder

### Automatic analysis of metaphase plates



### Analysis, search and collection of metaphase plates

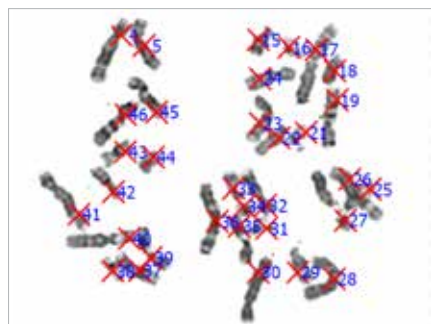
- Creation of a digital slide
- Metaphase plate identification
- Metaphase plate collection
- Metaphase plate image gallery

### Collection of metaphase plates at high magnification



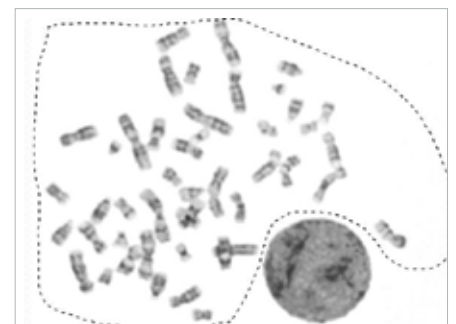
#### Image correction

Improve bands, change brightness and contrast, sharpen images



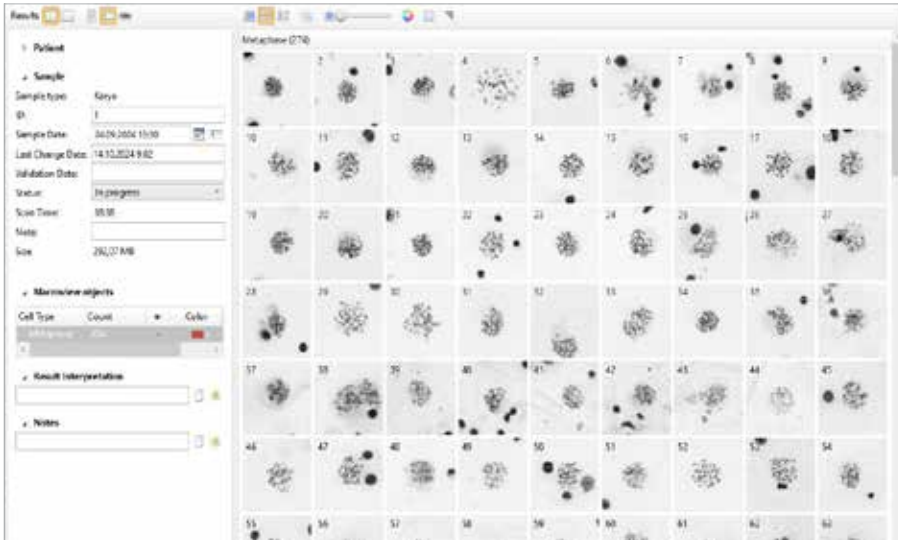
#### Manual counting

Counting the number of chromosomes in the image of the metaphase plate manually



#### Cut fragments

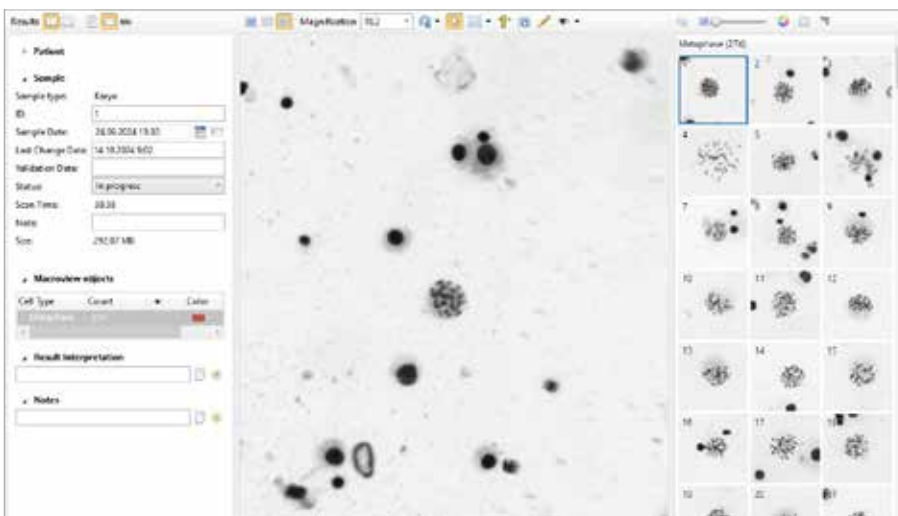
Cut to analyze the part of the image on which the chromosomes are located



### Automatic search and collection of metaphase plates

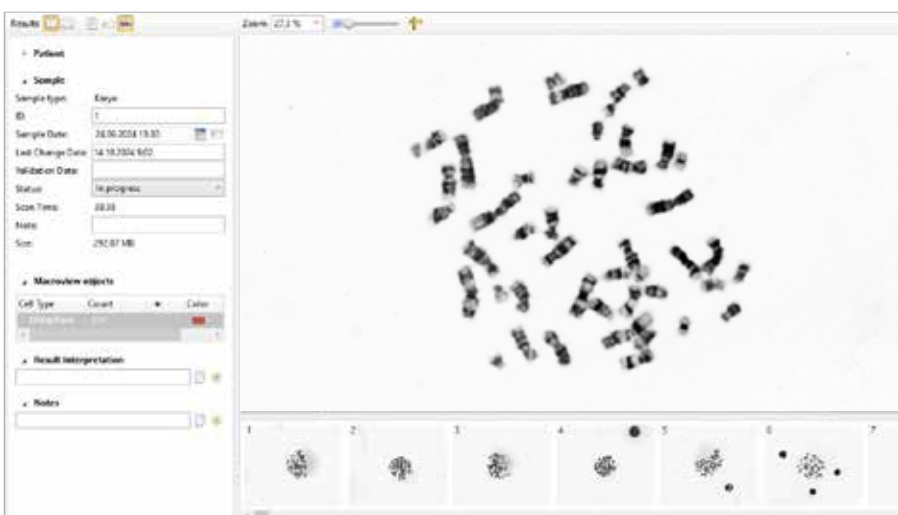
Automatically search for metaphase plates and prepare a gallery of images at low magnification.

Viewing the sample in the “cell gallery” mode allows you to see each cell with metaphase plates separately



### Multiview

Work simultaneously with two modes: “cells in the field of view” and “gallery of cells” of metaphase plates. The cell selected in the gallery is displayed on the preparation, and vice versa, the cell selected on the preparation is in the gallery.



### View metaphase plates

Viewing of found metaphase plates at high resolution with the formation of an image gallery

## Vision Karyo

### Automatic chromosome karyotyping



### Key features

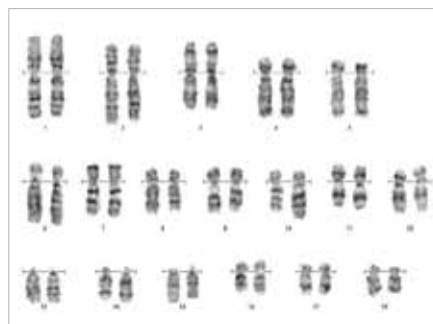
- High accuracy of automatic karyotyping of chromosomes, construction of idiograms
- Automatic recognition of human chromosomes
- Automatic separation of superimposed and contacting chromosomes
- Karyogram editing: chromosome transfer, rotation, straightening
- Creating your own idiogram databases
- Comparison of chromosomes and/or idiograms

### Features of Vision Karyo



#### Chromosome separation

Automatic separation of overlapping and contacting chromosomes



#### Karyogram

Automatic karyogram creation, editing



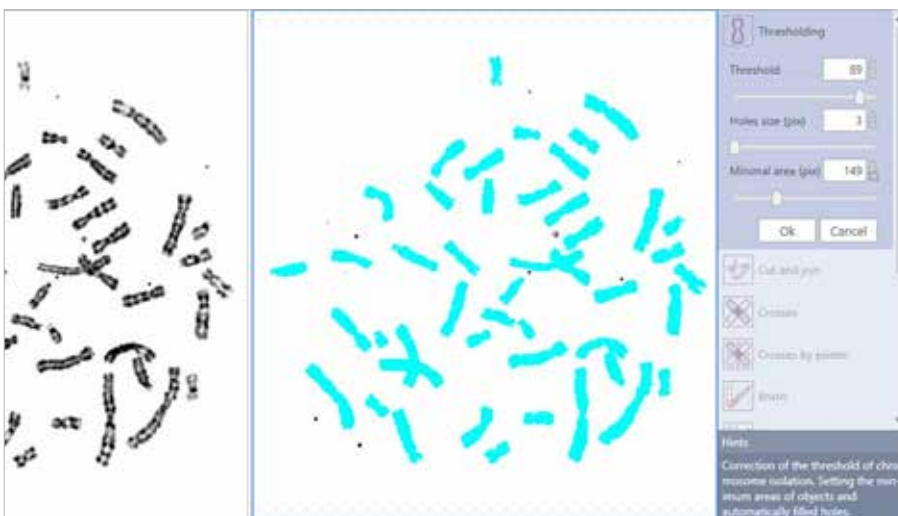
#### Documentation

Automatic report generation



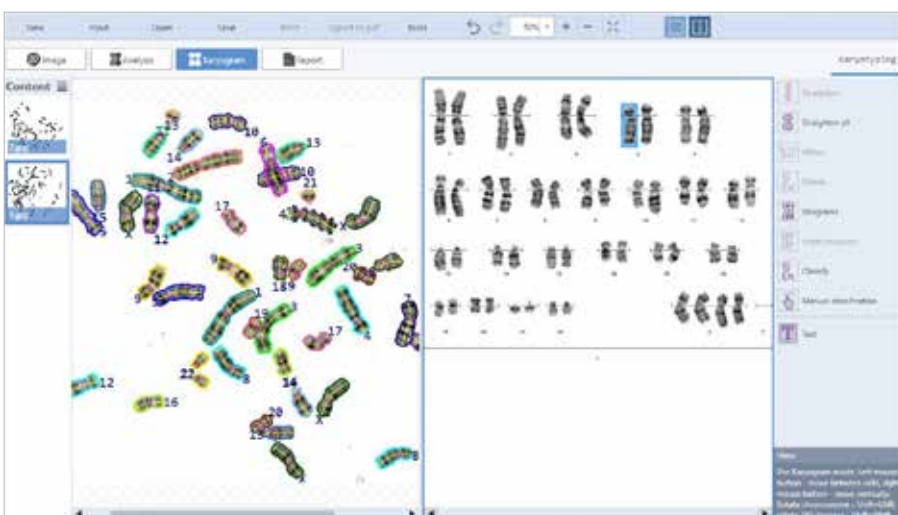
## Image preparation

Preparation of metaphase plate images for automated analysis



## Selecting and editing chromosome outlines

Automatic object contour extraction, separation of contacting and overlapping chromosomes, chromosome counting and parameter measurement for automatic classification



## Karyogram construction

Automatic construction of a karyogram using the active classifier and its editing

# Cell Imaging Analyzers

Key features	Vision Assist	Vision Pro	Vision Ultimate
Clinical modules	Vision Karyo Vision Metaphase Finder	Vision Karyo Vision Metaphase Finder	Vision Karyo Vision Metaphase Finder
Working mode	Queue (for 4 slides only)	Queue, Random access	Queue, Continuous and Random access, STAT sampling 24/7
Scanning	Automatic	Automatic	Automatic
Loading a slide	1 or 4 slides	4 or 8 slides	120 or 200 slides
Specifications	Scanning microscope Personal computer Monitor	Scanning microscope Personal computer Monitor	Scanning microscope Personal computer Monitor Control touch-monitor
Objectives	10x, 60x/100x Oil	10x, 60x, 100x Oil	2,5x, 10x, 63x, 100x Oil
Research method	Bright field	Bright field	Bright field
Illumination	Köhler illumination, LED	Köhler illumination, LED	Köhler illumination, LED
Communications	Bidirectional connection to LIS, LIS2-A2 (ASTM), HL7	Bidirectional connection to LIS, LIS2-A2 (ASTM), HL7	Bidirectional connection to LIS, LIS2-A2 (ASTM), HL7

Pre-classification has to be validated by the specialist reviewing the galleries of cells.

Please check the intended use and the registration in your local regulation.

Depending on the regulations of the respective region, some products may be used for research purpose only.

We reserve the right to change specification without notice.



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