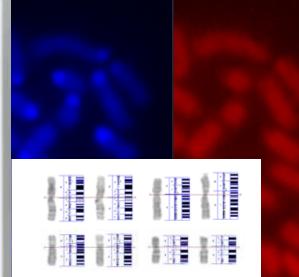# MX Vision KaryoFISH®

Karyotyping and analysis using
the FISH method

MX Vision KaryoFISH®
Karyotyping of chromosomes

A modern approach to chromosome analysis, using FISH method

— automatic separation of crossing over and touching chromosomes

— straightening of curved chromosomes

— automatic and manual object selection for measurement

— wide range of karyogram operations

— standard ideograms of different human chromosomal ISCN nomenclatures: 400, 550 or 850

— ideogram generation for future identification of chromosomes

— simultaneous comparison of chromosomes and ideograms

— karyotyping of animal and plant chromosomes

1 Digital camera
High resolution delivers superior image quality of a metaphase plate microscopy sample. An ultrasensitive camera detects even the weakest of signals.

2 Optical system
The combination of innovative technology and classical microscopy extends the working possibilities. If necessary, microscopy sample of a metaphase plate can be viewed through the eyepieces.

3 Fluorescence
A fluorescent unit provides a wide range of possibilities of the FISH method application.

4 Toolbar
The toolbar is designed according to the analysis' algorithm and ensures compliance with all the stages of the procedure, providing reliable results.

5 Karyotyping
An automated karyotyping with the possibility of manual correction.

6 Final image and pseudocoloring
The final image is generated by combining and pseudocoloring a serie of original monochrome images with different fluorescent stains.

Specification

MicroOptix

MX Vision KaryoFISH® system for karyotyping and analysis using FISH method
General characteristics

Working modes	sample visualization and image capture
Instruments	automatic separation of crossing over and of touching chromosomes, straightening of curved chromosomes, automatic and manual object selection for measurement, generation of ideograms for future identification of chromosomes
Optical system	fluorescence: 10x, 20x, 40x, 100x oil; bright field: 100x
Microscopic slides	standard 75x25 mm, 1.1 mm thick
Database	archiving of results via transfer to external storage media
Software	Vision Karyo® + Vision FISH® — database of digital samples — reference guide for ideograms — a professional set of tools to work with digital samples of metaphase plates: create, edit, organize, classify and comment — karyotyping of human chromosomes, karyotyping of plant and animal chromosomes — Fluorescence In Situ Hybridization method (FISH). Identification of specific DNA sequences directly in cytological and histological samples — statistics and quick search — remote access and network capabilities

Ordering Information	
Description	**Code**
MX Vision KaryoFISH® / Standard set Set includes: MX300 (TF) budget microscope, Vision CAM® V1200S (M) digital camera, Vision Karyo® + Vision FISH® software, PC, monitor	60.0045.10
MX Vision KaryoFISH® / Primary set Set includes: MX300 (TF) budget microscope, Vision CAM® V1200S (M) digital camera, Vision Karyo® + Vision FISH® software. *Use your personal computer**	60.0045.11

* Minimal PC requirements: Intel Core i5, 4 GB RAM, 1 TB HDD, Windows 7, 1920x1080

* Product images are shown for reference only and final product may differ

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