

# Automated Vision Control

## NEW AVC+

Applications with Leica Laser Microdissection LMD6500/7000

Living up to Life

**Leica**  
MICROSYSTEMS

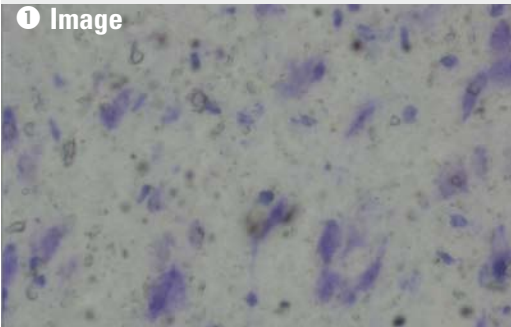
# Automated Vision Control

## NEW AVC+

### Your Benefits:

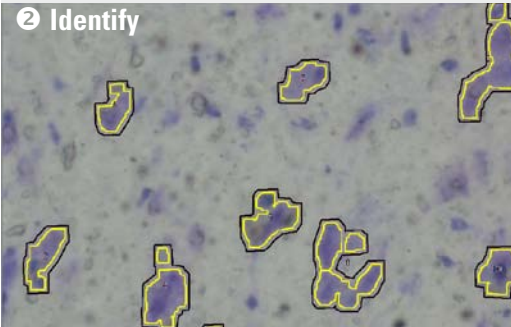
- Let the Leica LMD work for you
- Save your time due to the optimized workflow
- Manage higher sample throughput
- Get reproducible and reliable results
- Intuitive software user interface

### 1 Image



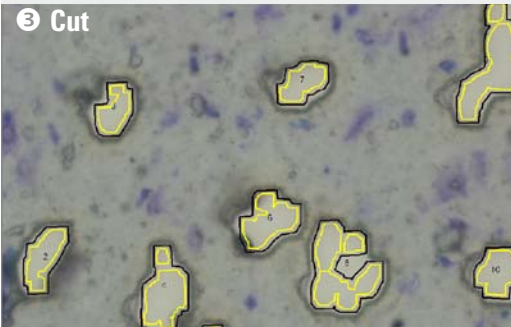
Mouse hippocampus, 12 µm section, stained with Toluidin blue, 63x objective

### 2 Identify



Automated detection of stained cells within chosen AutoShape settings

### 3 Cut



Specimen after dissection. Yellow line: out line of the cell, black line: expanded cut line

AVC+ is an easy to use software for the automated recognition of cells, placement of the cutting lines, and dissection to manage high sample throughput with laser microdissection (LMD) systems Leica LMD6500 and LMD7000.

Leica LMD uses a microscope to visualize individual cells or cell clusters. Regions of interest are selected by a software, excised from the surrounding tissue by a UV laser, and collected easily and safely by gravity into vessels.

Leica LMD7000 with scanning stage is the ultimate tool for the highest precision and perfection of AVC+ applications! Automatically select and dissect cells to obtain significant and reproducible signals in downstream analysis. The new ColourPicker tool makes the selection of the AutoShape settings a straight forward procedure.

This time-saving module is available as AVC+ Standard, which covers the cells within the field of view, or AVC+ Professional, for the complete slide.

AVC+ Professional processes the samples fully automated – controlling autofocus, cell recognition, and cutting, for a defined area on the slide. It is also possible to handle the sample semi-automated – focus manually and select and deselect cells after the automated recognition. Alternatively, collect a set number of cells per field of view to control your experimental conditions.

Index	Object	Perimeter	Area(µm²)	Horz.Pct	Vert.Proj	Roundness	FCP X	FCP Y
0	DK	774.000...	241	226	139	0.465148	34	56
1	not acce...	178.000...	20	45	44	0.750397	51	131
2	not acce...	180.000...	21	46	44	0.750432	86	928
3	not acce...	184.000...	22	44	48	0.750137	163	618
4	not acce...	198.000...	25	48	51	0.741084	271	320
5	DK	1348.41...	367	373	139	0.232809	277	87
6	not acce...	268.000...	37	71	63	0.603614	284	510
7	DK	574.000...	102	159	113	0.357224	312	438
8	not acce...	386.000...	75	111	82	0.594310	489	335

Configure your individual AutoShape settings for best detection results