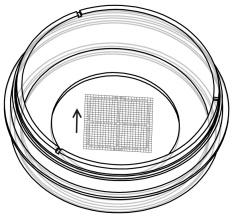
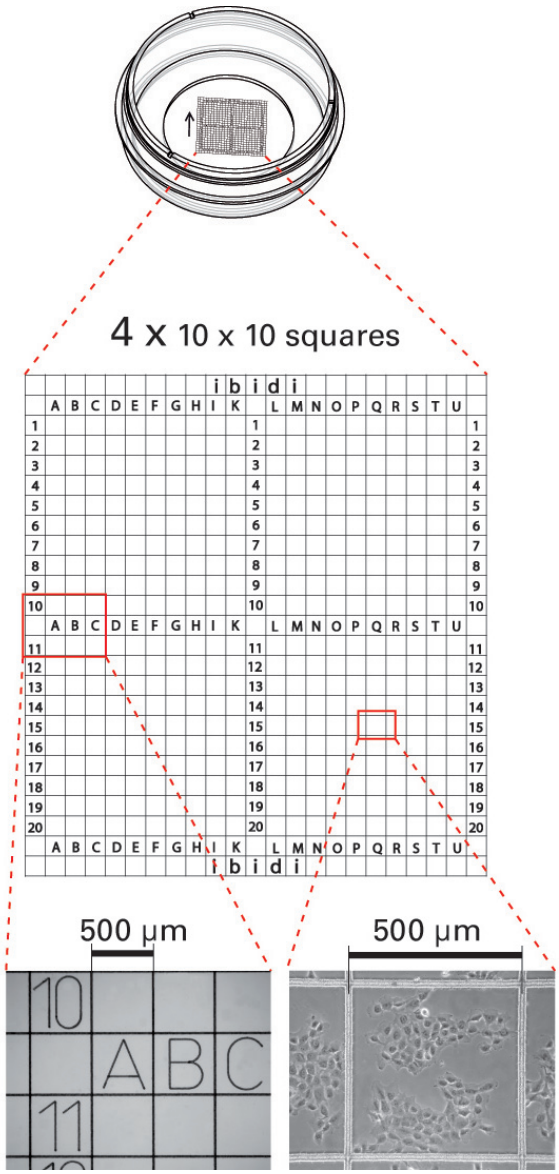


The Grid–500 is a grid structure for relocating events on a glass coverslip. It provides 400 distinguishable observation squares of 500 µm edge length. The grid is clearly visible by microscopy and imprinted into a microscopy coverslip. The outer dimensions and other parameters are identical to ibidi µ–Dishes.

Geometry of the Grid–500



Microscopic images of the grid. Left: 4x objective lens brightfield without cells. Right: 10x objective lens phase contrast with rat fibroblast cells.

The four major squares are separated in 10 ×10 observation fields and indicated by letters and numbers ranging from:

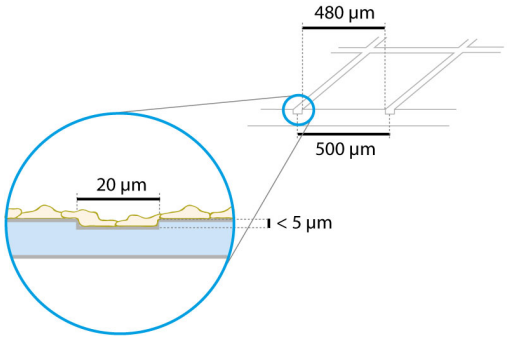
- A to K (J not used) and 1 to 10
- A to K (J not used) and 11 to 20
- L to U and 1 to 10
- L to U and 11 to 20

Geometry of the Grid–500	
Number of squares	400
Repeat distance	500 µm
Groove width	20 µm (± 5 µm)
Groove depth	< 5 µm

Characteristics of the Grid

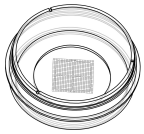
The Grid–500 is made of small grooves that are imprinted into a microscopy coverslip. The structure is imprinted on the side on which cells are growing. Cells and grid are in one focal plane. There is no reported effect on cell growth, coating protocols, or surface properties. Proliferation and cell behavior is comparable to standard non–gridded glass coverslips. Washing steps (e.g. with PBS) before cell seeding can remove glass dust which is advantageous for direct cell growth on the surface. Please also refer to the instructions of ibidi µ–Dishes glass bottom for information on surfaces, coatings, and cell seeding.

The grooves are 20 µm (± 5 µm) wide and approximately 5 µm deep. Cells can grow in the grooves as well. We recommend using objective lenses up to 20×. Anyhow, the optical quality meets the requirements of 63× and 100× oil objective lenses as well (glass coverslip bottom, No. 1.5).



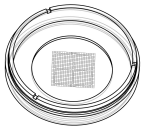
µ–Dish $^{35\ mm}$ Grid family

µ–Dish $^{35\ mm,\ high}$ with Grid–500



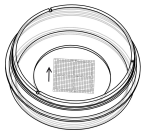
Ordering number	Treatment or Coating	Characteristics
81166	ibiTreat, tissue culture treated, sterile	hydrophilic, tissue culture treated
81161	uncoated, sterile	hydrophobic

µ–Dish $^{35\ mm,\ low}$ with Grid-500



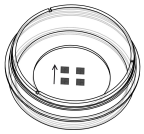
Ordering number	Treatment or Coating	Characteristics
80156	ibiTreat, tissue culture treated, sterile	hydrophilic, tissue culture treated
80151	uncoated, sterile	hydrophobic

µ–Dish $^{35\ mm,\ high}$ glass bottom with Grid-500



Ordering number	Treatment or Coating	Characteristics
81168	glass bottom, sterile	uncoated glass coverslip

µ–Dish $^{35\ mm,\ high}$ glass bottom with Grid-50



Ordering number	Treatment or Coating	Characteristics
81148	glass bottom, sterile	uncoated glass coverslip

For research use only!

Further technical specifications can be found at www.ibidi.com. For questions and suggestions please contact us by mail info@ibidi.de or by telephone +49 (0)89/520 4617 0. All products are developed and produced in Germany. ©ibidi GmbH, Am Klopferspitz 19, 82152 Martinsried, Germany.