



# Optique Peter

OPTICAL & MECHANICAL ENGINEERING

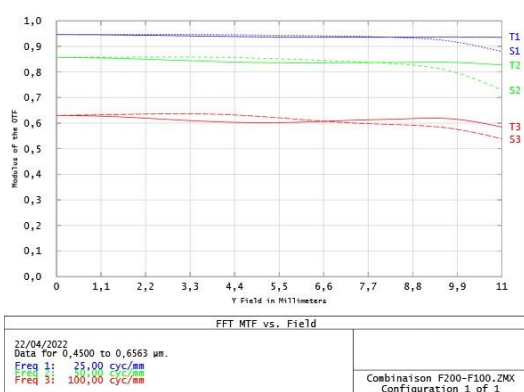
## HIGH RESOLUTION / HIGH NUMERICAL APERTURE TANDEM MACROSCOPES



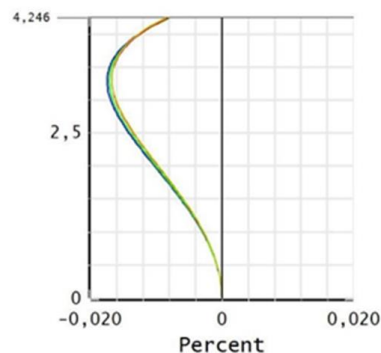
- Tandem configuration with specially designed high resolution / High NA tandem optics
- X-ray protection by front radiation resistant glass
- 0,5X to 2X magnifications
- Easy objective changing
- Camera detector diagonal from 22 mm to 44 mm
- Scintillator field of view diagonal from 22 mm to 44 mm

16 possible tandem combinations with 4 specially designed high resolution objectives :

|                                    |  | Objective on the camera side             |   |   |   |   |
|------------------------------------|--|--|---|---|---|---|
|                                    |  |  |  |  |  |  |
|                                    |  | Focal / NA                               | F 100 mm / 0,27   | F 133 mm / 0,20   | F 150 mm / 0,18   | F 200 mm / 0,135  |
| Objective on the scintillator side | Focal / NA   | $\emptyset$ scint. / $\emptyset$ detect. | 22 mm   | 29,33 mm  | 33 mm   | 44 mm   |
|                                    |  F 100 mm / 0,27    | 22 mm                                    | 1X/0.27   | 1,33X/0.27  | 1,5X/0.27   | 2X/0.27   |
|                                    |  F 133 mm / 0,20    | 29,33 mm                                 | 0,75X/0.20  | 1X/0.20   | 1,12X/0.20  | 1,5X/0.20   |
|                                    |  F 150 mm / 0,18   | 33 mm                                    | 0,67X/0.18  | 0,89X/0.18  | 1X/0.18   | 1,33X/0.18  |
|                                    |  F 200 mm / 0,135 | 44 mm                                    | 0,5X/0.135  | 0,67X/0.135   | 0,75X/0.135   | 1X/0.135  |



MTF in scintillator plane – 2X/0,27 NA configuration



Distortion in detector plane – 2X/0,27 NA configuration