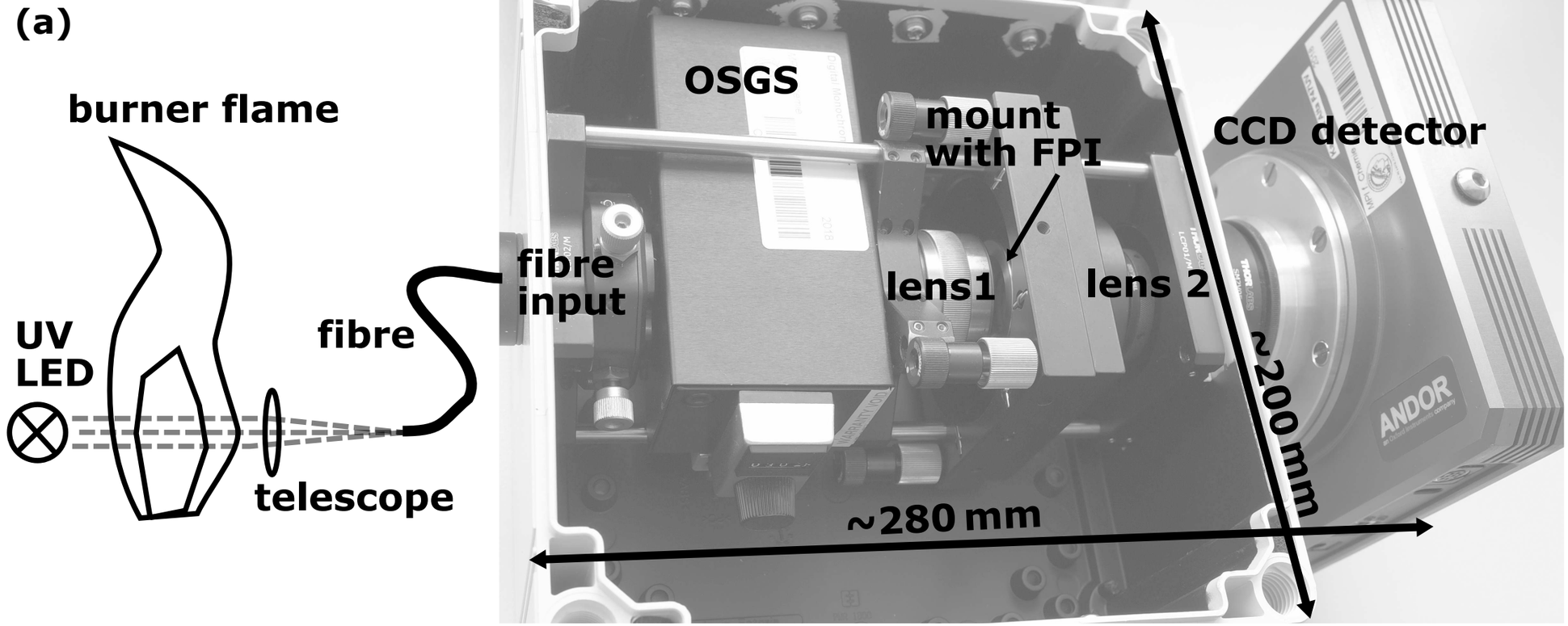
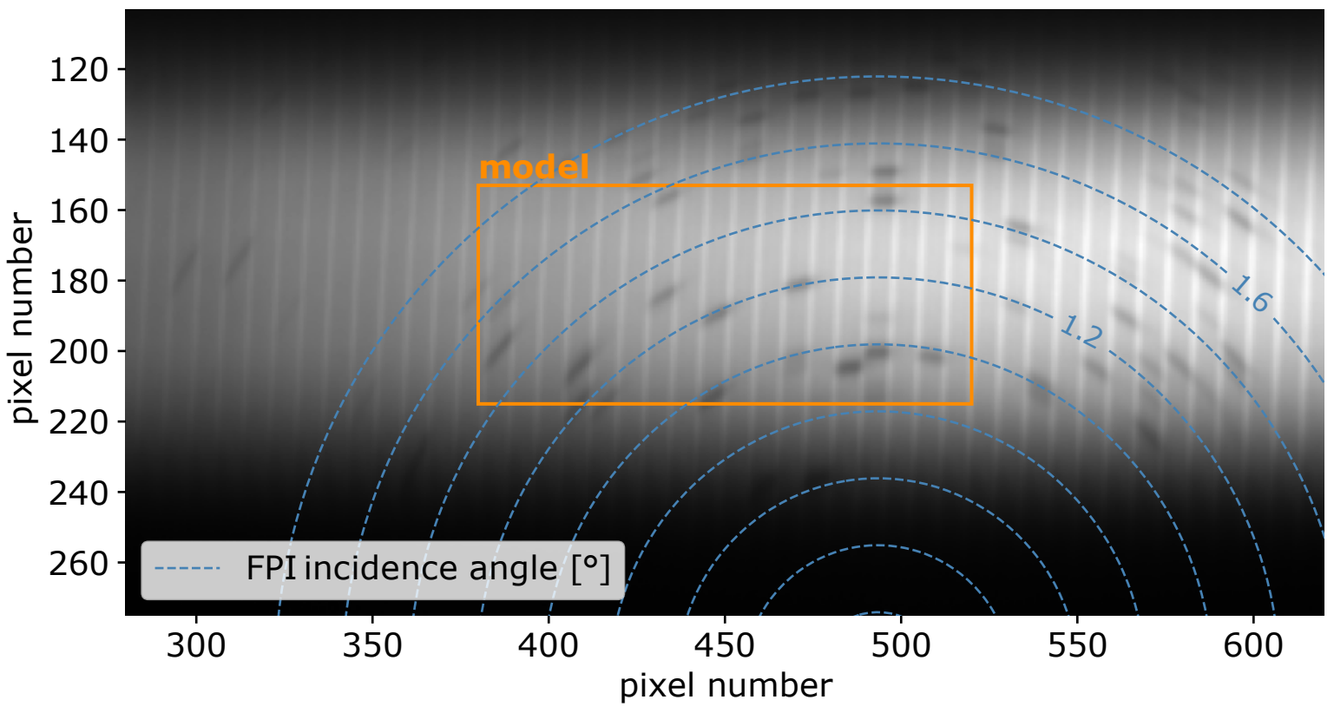
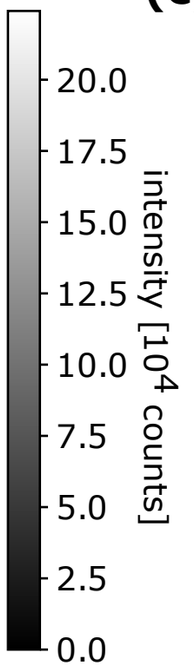
(a)

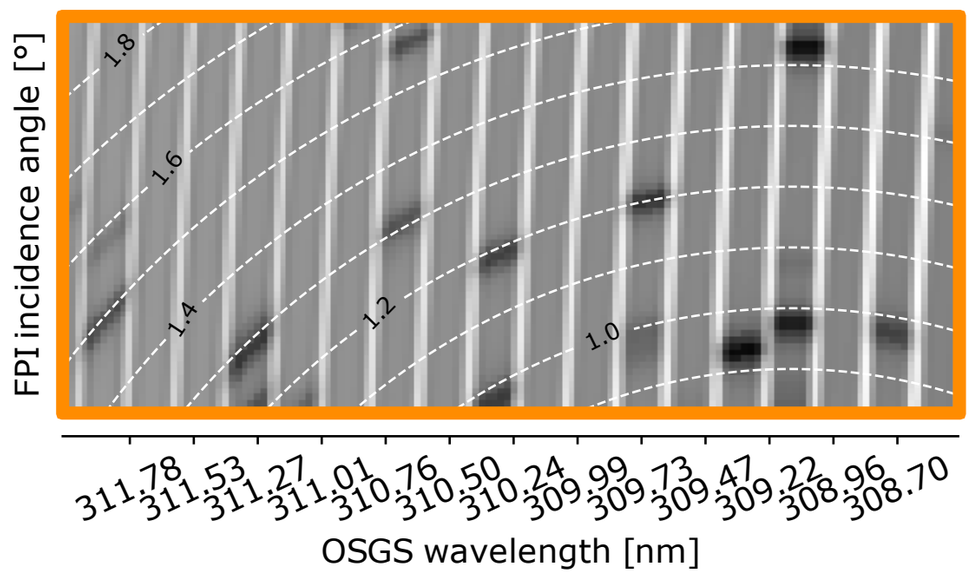

burner flame
UV LED
fibre
telescope
fibre input
OSGS
mount with FPI
lens1
lens 2
CCD detector
~200 mm
~280 mm

(b)


model
1.6
1.2
FPI incidence angle [°]
pixel number
pixel number
120
140
160
180
200
220
240
260
300
350
400
450
500
550
600


20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
intensity [10⁴ counts]

(c)


modelled intensity [a.u.]
for 0.43x10¹⁶ OH molec. cm⁻², 1864 K
FPI incidence angle [°]
1.8
1.6
1.4
1.2
1.0
311.78
311.53
311.27
311.01
310.76
310.50
310.24
309.99
309.73
309.47
309.22
308.96
308.70
OSGS wavelength [nm]