Press release

Technical data for ExoLens™ with optics by ZEISS

	Wide angle	Tele	Macro
Optical design	ZEISS Mutar	ZEISS Mutar	ZEISS Vario-Proxar
Aperture [2]	ideal for $Ø_{EP}$ = 2mm		
Focal length	18 mm [3]	56 mm [3]	40-80 mm
Magnification factor	0.6x	2.0x	-
Lens elements / groups	4 / 4	5 / 3	3 / 2
Focusing range	0.05m – infinity	0.36m – infinity	78-30mm
Image field (diag.) [4]	100°	42°	not relevant
Coverage at close range (MOD) [4]	Ø 68mm	Ø 273mm	Ø 111,3 mm (far) Ø 35,6 mm (close)
Magnification ratio at minimum object distance [4]	0.088	0.022	0,055 (far) 0,172 (close)
Diameter (without / with lens shade)	44mm / 60mm	44mm / 52mm	34 mm / 39 mm
Length (without / with lens shade)	29mm / 38mm	33.5mm / 46.5mm	12.5mm / 23.2mm
Weight (without / with lens shade)	83g / 90g	91 g / 98 g	41 g / 48 g
Available brackets for smartphones	iPhone®[1] 6, 6 Plus, 6s, 6s Plus		

[1] iPhone® is a trademark of Apple Inc.
[2] EP = Entrance pupil diameter of mobile phone camera = f/(f-number)
[3] focal length including mobile phone camera (35mm-equivalent focal length f = 28mm), referring to 36x24 mm format
[4] assumed mobile phone camera optical parameter:35mm-equivalent focal length f = 28mm, sensor diameter $Ø_{im}$ = 6mm, minimum optical distance MOD = 80mm, min. magnification ß = 0.058