

# LENS SPECIFICATIONS

AUTHOR: Andy Sanders FBDO. UPDATED: February 2019



## Low ADD Boost lenses

Lens Design	ADD Boost	Fitting Cross Position (mm)	Position Below Pupil to reach Boost (mm)	Minimum Fitting Height (mm)	Minimum Frame Depth (mm)	Fitting Info	Availability	Notes
<b>Essilor Eyezen Boost (Expert)</b>	0.40D / 0.60D / 0.85D / 1.10D	4	15	15	-	Pupil centre / Mono PDs and heights to pupil centre	1.5 / 1.59 / 1.6 / 1.67 / 1.74 photochromic	0.40D 18-34 year olds / 0.60D 35 to 39 year olds / 0.85D and 1.10D 40 to 50 year olds
<b>Hoya Sync III</b>	0.57D / 0.95D / 1.32D	4	14	16	-	Pupil centre / Mono PDs and heights - option to specify frame based parameters. Actual frame VD / FFFA / Panto	1.5 / 1.53 / 1.59 / 1.6 / 1.67 / 1.74 Photochromic options to 1.67	13+ to pre presbyopia. Inset based on 30cm working distance. Ultra boost achieved if fitting height 20mm+ 0.75D / 1.25D / 1.75D
<b>Nikon Relaxsee</b>	0.50D to 1.25D (0.25 Steps)	4	15	18	-	Pupil centre/ Mono PDs and heights or SV on HCL	1.5 / 1.6 / 1.67	30 to 40 year olds
<b>Norville Booster</b>	0.37D / 0.62D / 0.87D	0	12	16	-	Pupil centre / Mono PDs and heights - option to specify frame based parameters. Trial frame VD / Actual Frame VD / FFFA / Panto	1.5 / 1.53 / 1.59 / 1.6 / 1.67 / 1.74 / 1.76 Photochromic options	Pre-presbyopes
<b>Rodenstock Impression Mono Plus 2</b>	0.50D / 0.80D	0	12	16	-	Pupil centre/ Mono PDs and heights. Specify frame based parameters. Frame VD / FFFA/ NOT Panto *DNEye Option	1.6 / 1.67 / 1.74 Photochromic	Pre-presbyopes
<b>Rodenstock Multigressiv Mono Plus 2</b>	0.50D / 0.80D	0	12	16	-	Pupil centre/ Mono PDs and heights *DNEye Option	1.5 / 1.6 / 1.67 / 1.74 Photochromic	Pre-presbyopes
<b>SEIKO Extensive Vision</b>	0.75D	4	12	17	-	Pupil centre / Mono PDs and heights	1.5 / 1.6 / 1.67	30 to 40 year olds (2.5mm set inset)
<b>Shamir Relax</b>	0.50 / 0.65D / 0.80D	0	12	16	-	Pupil centre / Mono PDs and heights	1.5 / 1.53 / 1.56 / 1.59 / 1.6 / 1.67 Photochromic	18 to 29 yrs 0.50D Boost 30-39 yrs 0.65D Boost 40-45 yrs 0.80D Boost -16.75/+8.25 cyls to 8.00 Prism to 10
<b>Zeiss Digital</b>	0.50D to 1.25D (0.25 Steps)	6	11 to 15	14 to 20 †	-	Pupil centre / Mono PDs and heights	1.5 / 1.6 / 1.67 / 1.74 Photochromic glass 1.6 / 1.8	30 to 49 year olds. Possible to order with i-scription

† Zeiss Digital Not Customisable set according to fitting height and RX

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## Degressives lenses

Degressives	Degression Power	Fitting cross Position relative to engravings (mm)	Position Below pupil to reach full ADD/ Position above pupil to achieve full degression (mm)	Minimum Height (mm)	Minimum Frame Depth (mm)	Fitting Info	Availability	Notes
<b>Essilor Interview 080 / 130</b>	0.80D and 1.30D	0 Fit as a bifocal on lower limbus	6	12 to 14	-	Fit using near PDs heights to lower limbus as bifocals and full NV Rx	1.5 / 1.6 / 1.67	Use 0.80D for Adds to 2.00D and 1.30D for Adds over 2.00D Full degression at eye point
<b>Essilor Computer 2V</b>	0.55D	0	8 / 0	15	30	Mount on HCL order full NV Rx and NV mono PDS	1.5	Adds available 1.00D to 2.50D 0.55D degression at eye point
<b>Hoya Add Power TF 60 and 120</b>	0.75D and 1.50D	4 or fit on HCL	12 / 12	12 below pupil centre 8 below engravings	24	Fit 4mm below pupil centre or on HCL use mono Near CD order using full near Rx	1.5 (60) 1.5 and 1.6 (120)	Degressive lens with non-linear degression. 0.25D (add power 60) or 0.50D degression (add power 120) achieved at eye point. (Non linear)
<b>Nikon Online Wide</b>	1.00D / 1.50D / 2.00D / 2.50D	0 Fit as a bifocal on lower limbus	15 / 15	15	30	Fit to NV monocular PDs order full NV Rx	1.5 / 1.6 / 1.67 / 1.74	Linear 19mm degression starts 5mm below fitting cross 65% of degression at eye point 7mm above limbus
<b>Norville Versatile Office</b>	0.75 D / 1.25D / 1.75D / 2.25D	0	12 / 12	16mm below 12mm above	28	Fit to distance PDs and heights option to specify frame based parameters, Trial frame VD, Actual frame VD/ FFFA / Panto order using full near Rx specify required degression	1.5 / 1.53 / 1.56 / 1.59 / 1.6 / 1.67	As rule of thumb degression should be 0.50D less than full add. *Photochromic availability
<b>Rodenstock Nexyma 40</b>	1.00D	4	11 / 4	13	19	Fit to distance PDs and heights. Order using full NV Rx	1.5	Full degression achieved 6mm above fitting cross 0.75D degression at fitting cross
<b>Rodenstock Nexyma 80A / 80B</b>	0.80D and 1.50D	4	18 / 4	20	26	Fit to distance PDs and heights. Order using full NV Rx	1.5	Full degression achieved 4mm above fitting cross 0.10D(A) degression at fitting cross and 0.2D (B) degression at fitting cross
<b>SEIKO COMPUTER Xtra</b>	1.00D / 1.50D / 2.00D	0	-	15	30	Fit to pupil centre on "main viewing line" using intermediate PDs giving full reading Rx and required degression	1.5 / 1.6 / 1.67 and Tribrid	40% degression at fitting cross 25mm corridor length
<b>Shamir Computer</b>	0.75 to 2.25	0	14 / 10	14	24	Fit to distance PDs and heights to pupil centre full Dv Rx and Add. Frame shape data also required	1.5 / 1.59 / 1.6	30% degression at fitting cross "Continuous Dynamic Power" 70% degression 8mm above fitting cross. Photochromic availability
<b>TOKAI (Pro/Hi) Readers</b>	1.00D	2	9 or 19 for 0.50D extra power / 11	19	34	Fit to DV mono PDs BUT order on Near RX	1.5 / 1.6	1.00D degression and extra 0.50D "progression" beyond prescribed addition 9mm below fitting point
<b>TOKAI BS Largo A &amp; B</b>	A - 1.00D B - 1.50D	4	9 / 10	16	31	Fit to DV mono PDs BUT order on Near RX	1.5 / 1.6	Linear degression 45% at fitting cross

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## Occupational lenses (Page 1 of 2)

Occupationals	Design	Fitting cross: Position relative to engravings (mm)	Position of centre of NV / Minimum to top rim (mm)	Minimum Fitting Height (mm)	Minimum Frame Depth (mm)	Fitting Info	Availability	Notes
Essilor Digitime	Room	4	12 below fitting cross / not specified	17	-	Fit as progressives on pupil centres but check at near vision point. Should be fitted at a minimum vertical height of 24mm to obtain maximum ultra near zone.	1.5 / 1.59 / 1.6 / 1.67	Maximum 220cm depth of field, +0.125 Ultra NV boost
	Mid	4		17	-			Maximum 100cm depth of field, +0.25 Ultra NV boost
	Near	4		17	-			Maximum 80cm depth of field, +0.50 Ultra NV boost
Hoya WorkStyle V+						Fit to distance PDs and heights, provide VD, Panto and FFFA and frame shape. Select appropriate corridor. Specify Add position F/B/W and measured near working distance (variable inset 0 to 6mm). Default design parameters are available for easy fit option.		
	Space	0	Minimum 15 to 18 / 11 to 14 Variable depends on corridor length	15	26	Full distance Rx achieved at DV point	1.5 / 1.6 / 1.67 & Photochromic	Fit as progressives on pupil centres. 43% addition at fitting cross
	Screen	0		15	26	21% of addition remains at DV point for adds 2.50D and over this will not exceed +0.54D	1.5 / 1.6 / 1.67 & Photochromic	Fit as progressives on pupil centres. 56% addition at fitting cross
Close	0	15		26	40% of addition remains at DV point for adds over 2.50D this will never increase beyond +1.00D	1.5 / 1.6 / 1.67 & Photochromic	Fit as progressives on pupil centres. 66% addition at fitting cross	
Hoya Tact 400	1 Design	4	18 / 12	18	30	Fit on distance PDs as a standard progressive	1.5 / 1.6	40% addition at fitting cross (the designed can be bias towards computer distance by the addition of 0.50D to the DV rx and the same reduction to the add, this creates the Tact 200)
Norville Bureau	1 Design	4	18 / 10	18	28	Fit as standard progressives. Possibility to specify VD/Panto/FFFA and inset 0 to 4mm. 25% add power at fitting cross	1.5 / 1.53 / 1.56 / 1.59 / 1.6 / 1.67 / 1.74 and Photochromic	Checking point 8mm above fitting cross (full distance rx)
Nikon Home & Office	1 Design	4	16 / 9	-	28 or 24 for adds less than 1.75D	Fit as standard progressive lenses with distance PDs and heights. For higher adds minimum recommended fitting height is 19mm	1.5 / 1.6 / 1.67 / 1.74	25% of addition at fitting cross, linear progression down lens from this point
Rodenstock Progressiv Ergo Multigressiv Ergo Prescription Optimised	Room	0 Progressiv Ergo 4	18 / 4	20	28 recommended	Fit as standard progressive designs and select design definition	1.5 Progressiv 1.6 / 1.67 Impression	At fitting cross vision up to about 5 m (0.20D)
	PC	0 Progressiv Ergo 4	18 / 4	20	30 recommended			At fitting cross vision up to 1.20 m (0.83D)
	Book	0 Progressiv Ergo 4	14 / 6	16	26 recommended			At fitting cross vision up to about 0.90 m (1.11D)
Rodenstock Impression Ergo	Room	0	16 to 20 / 4	16	24 (recommended) to 28 +	Fit as standard progressive designs and select design definition but specify VD / Panto / FFFA	1.6 / 1.67	At fitting cross vision up to about 5 m (0.20D) approx 20% of addition at fitting cross
	PC	0	16 to 20 / 4	16	26 (recommended) to 30 +			At fitting cross vision up to 1.20 m (0.83D) approx 33% of addition at fitting cross
	Book	0	16 to 20 / 4	16	26 (recommended) to 30 +			At fitting cross vision up to about 0.90 m (1.11D) approx 42% of addition at fitting cross

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<b>Rodenstock Impression Ergo FS</b>	Full control by dispenser to bias design using Impression consulting programme	0	14 to 22 / 6	14	25 recommended to 36 +	Fit as standard progressives to pupil centres, vary fitting height and design profile according to patients needs using "app" supply all frame data parameters VD / Panto / FFFA	1.6 / 1.67	Full customised design at fitting cross vision from 1m to 4m in 1cm steps
<b>SEIKO Indoor</b>	Design 1	0	17 / 19	17	27	Fit to pupil centre on "main viewing line" using intermediate PDs and full DV Rx and addition	1.6 / 1.67	40% addition at fitting cross
	Design 2	0	10 / 11	19	29+			
<b>Shamir Workspace</b>	0.75 to 2.25	0	14 / 10	14	24	Fit to distance PDs and heights to pupil centre full DV Rx and Add. Frame shape data also required	1.5 / 1.59 / 1.6	40% degression at fitting cross "Continuous Dynamic Power" 12% addition 8mm above FC Photochromic availability
<b>Shamir Smart Office</b>	0.75 to 2.25 Auto selected	0	14 / 10	14	24	Fit to distance PDs and heights to pupil centre full DV Rx and add. Frame shape data also required, work position (standing / sitting eye level to computer, above / at / below)	1.5 / 1.59 / 1.6	Tailored to individual needs / working arc
<b>Zeiss Office lens Plus Office lens Superb</b>	Room	6	14 Short 18 Std 14 to 20 Superb	14 Short 18 Std 14 to 20 Superb	22 to 28	Fit to distance PDs and heights to pupil centre full DV Rx. Superb requires fitting height and frame fit value 0 to 6 (0=14 6=20)	1.5 / 1.53 / 1.59 / 1.6 / 1.67 / 1.74 & Glass 1.6	6mm above fitting cross DV Rx +0.25 vision up to 4m (linear power profile) 6mm to fitting cross hardly any power build up
	Near						1.5 / 1.53 / 1.59 / 1.6 / 1.67 / 1.74	6mm above fitting cross DV Rx +0.50 vision up to 2m (linear power profile) 6mm to fitting cross hardly any power build up
	Book						1.5 / 1.53 / 1.59 / 1.6 / 1.67 / 1.74	-
<b>Zeiss Office Individual</b>	Fully customisable	6	Variable 14 to 20 (0.1 steps)	14 to 20	22 to 28	Fit to distance PDs and heights to pupil centre full DV Rx. Decide fitting height and frame fit value 0 to 6 (0=14 6=20). Provide frame shape and fitting parameters VD/ Panto/FFFA and near working distance 20cm to 99cm depending on addition	1.5 / 1.53 / 1.59 / 1.6 / 1.67 / 1.74	6mm above fitting cross fitting cross variable according to MID (maximum intermediate Distance required) 100cm to 400cm (linear power profile) 6mm to fitting cross hardly any power build up

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## Progressives for digital life lenses

Progressives for digital life	Design	Fitting Cross position (mm)	Minimum Fitting Height (mm)	Recommended Minimum Height above fitting cross (mm)	Fitting Info	Availability	Notes
<b>Nikon Digilife and Digilife FP</b>	FP can be personalised to frame parameters	4	13 15 17	10	Fit to distance PDs and heights to pupil centres. FP tailored to frame parameters VD/Panto/FFFA and variable inset 0 to 5mm	1.5 / 1.6 / 1.67 / 1.74 Photo and Polarised and Wrap Option	More rapid addition build up "without compromising distance field" power profile to meet the needs of a digital world adds to +4.00
<b>Shamir Autograph InTouch</b>	Standard fitting parameters	4	15 18	10	Fit to distance PDs and heights to pupil centres	1.5 / 1.53 / 1.59 / 1.6 / 1.67 / 1.74 Photo and polarised	More rapid addition build up of power with power profile 25% more addition power in the 40 to 70cm area than standard progressives