

Demystifying Near Task Specific Lenses for Today's Work Environment

vision expo

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Michelle J. Hoff, OD, FAAO, ABOM, FNAO

- ◆ University of California Berkeley | Associate Professor of Health Sciences
- ◆ Mindful Eyes Foundation | Founder and Executive Director
- ◆ SightLine Ophthalmic Consulting | Co-founder and CEO
- ◆ Doctor of Optometry (OD)
- ◆ Master in Ophthalmic Optics (ABOM)
- ◆ Registered Spectacle Lens Dispenser (CA-SLD)
- ◆ Licensed Optometrist (CA-DCA)

linqapp.com/michelle_hoff


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Disclosures


- The content of this course was developed independently without commercial bias or influence
- Consulting History
 - SightLine Ophthalmic Consulting
 - Visionix
 - Essilor Instruments, USA
 - Topcon Healthcare

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MATRIX



*Accept Eye Strain
as Part of Life*




*Choose Clear
Comfortable Vision*

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Learning Journey Objectives

- Technology Timeline
- Trends and Demographics
- Ergonomics
- Lens Analysis and Contour Plots
- Task Specific Lens Solutions
- Understanding Near Task Specific Lens Designs
 - Near Variable Focus (Computer, Occupational)
 - Full Range
 - Intermediate/Near
 - Powerboost
- Product Portfolios
- Case Presentations




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Technology Timeline: Over a century ago

1920's - 1930's - Radio
 1940's - 1950's - B&W TV
 1950's - 1990's - Color TV
 1990 - present- HD TV



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Technological Revolution

1970's - 90's

- Electronic games
- Personal computers
- Laptops
- Cell phones

INTERNET ACCESS!

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The Digital Revolution: Shift from Mechanical to Electronic

One small, handheld device = Lots of large individual things

50 years: Radio to Computer
20 years: digital devices major part of life

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The Physical and Visual Response

1990's: Computers are the major source of information

Breakdown of DES* Symptoms
(6 out of 10 adults report)

- 35% Neck/shoulder pain
- 27% Dry eyes
- 28% Headaches
- 32% Eye strain
- 28% Blurred vision

* DES = Digital Eye Strain, formerly Computer Vision Syndrome (CVS)

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How is the relevant to vision care?

Today's presbyope is not the same as 20 years ago
Onset of near symptoms at a younger age

Answers by U.S. Consumers of Eyeglass Lenses That Combat Digital Eye Strain

90% of patients do not talk with their eye care provider about digital device usage.

69.1% aren't aware of lenses to combat eye strain

Eyestrain is a normal part of life we simply put up with

The Vision Council 2016 Digital Eye Strain Report, EYES OVERWORKED: THE DIGITAL DEVICE CHALLENGE

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Digital Eye Strain – Symptoms

- Red, Dry, Irritated, Sore Eyes
- Blurred Vision at Distance and/or Near
- Eye Fatigue
- Neck and Back Pain
- Headaches
- Double Vision

★ Digital Eye Strain – Areas of Concern

- Refractive Errors
- Accommodative Disorders
- Binocular Vision Dysfunction
- Presbyopia

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Who's Sitting in Your Chair?

BUSINESS BY AGE BRACKET

Boomers still rule the roost, but for how much longer?

- Baby Boomers + Gen X = fill most appointments
- Spectacles \$ = 62% of total revenue
 - Half from premium lenses purchased by presbyopes
- Sales of Progressive Lenses, NTS lenses will increase the most over the next several years

Eyecare Business January 2018 and 2020 Mega Market Trends

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We all use digital devices







- Online shopping
- work/study
- Social connections



Tx = Personalized near task specific lenses to decrease eye strain/poor ergonomics




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Why Use A Computer Lens?


PAL - distance priority	Computer Lens - int/near priority
• Narrow corridor	• Wide corridor
• Intermediate positioned low	• Intermediate positioned at straight gaze and/or below
• Small near zone	• Large near zone

Small, narrow
Intermediate




Classic PAL

Intermediate + Near
w/small distance



Full Range NVFL

Intermediate + Near
No distance



Intermediate/Near

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Presbyopic Personal Computer Work: A Comparison of Progressive Addition Lenses for General Purpose and Personal Computer Work

Kolbe, Oliver, MEng¹; Degle, Stephan, MSc, PhD¹

STUDY: 190 presbyopic computer users compared GW PAL to computer specific (CSL) glasses for 2 weeks each using a 24 item questionnaire.


RESULTS: CVS symptoms were perceived 7X more often with PAL compared to Computer specific lenses. (PG-PALs) are shown to reduce computer vision symptoms at the personal workstation.

84% of subjects preferred CSL when using a computer. Only 14% of subjects had been told about CSL by their eye care provider. 79% wished they had been informed about them.

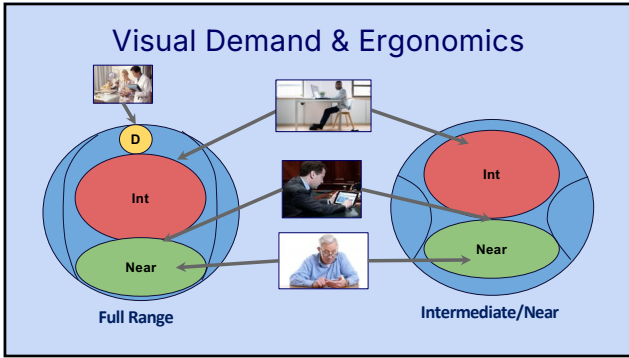
Conclusions: CSL reduce the symptoms of CVS, increase visual comfort and improve computer ergonomics.

Takeaway Message: We need to do a better job of talking to about visual needs and recommending task specific lenses.

CONCLUSIONS Computer-specific progressive addition lenses reduce the perception of the CVS and are highly preferred by VDU workers.



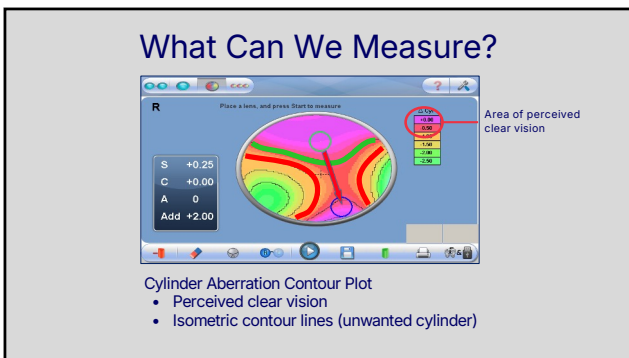
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Understanding the Design Shape

General Wear PALs				
NVF Lenses				
Powerboost Lenses				

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How much clear area is your patient seeing?

Area of Clarity (inches) = $\frac{\text{Lens (mm)} \times \text{Working Distance (cm)}}{\text{Vertex (mm)} \times 2.54 \text{ cm/inch}}$

@ 40 cm: 1 mm = 1.2 inches
@ 67 cm: 1 mm = 2.0 inches

Calculations are simplified and do not take into consideration the center of rotation or the power of the lens.

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Sample Problem

Area of Clarity (inches) = $\frac{\text{Lens (mm)} \times \text{Working Distance (cm)}}{\text{Vertex (mm)} \times 2.54 \text{ cm/inch}}$

Area of Clarity (inches) = $\frac{1 \times 55}{13 \times 2.54} = \frac{55}{33.02} = 1.67 \text{ inches}$

Calculations are simplified and do not take into consideration the center of rotation or the power of the lens.

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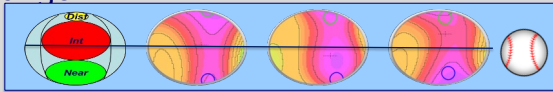
Understanding Computer Lenses

Near Variable Focus - Full Range



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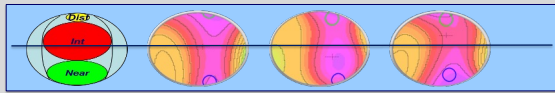
Designs: Near Variable Focus - Full Range



- Intermediate Add power designed for 60cm – 90cm working distance
 - +1.67 - +1.12 Dioptic demand
 - at the fitting cross (FC)/fitting reference point (FRP)
- FRP is set at pupil center
- Distance zone is 10-15mm above FRP
- Transition zone length is 20-30mm
- Full Near zone 10-15mm below FRP
- Large frame 'B' dimension (min. 30 mm)

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Designs: Near Variable Focus - Full Range



- Mobile presbyopes - multiple stations/rooms, require some distance vision
- Doctors, teachers, managers, consultants, receptionists, technicians
- Lens Design: Intermediate prioritized with some distance vision at the top

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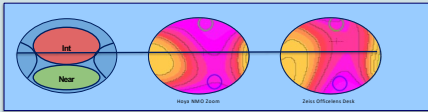
Understanding Computer Lenses

Near Variable Focus for Intermediate/Near



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Design: NVF Int/Near

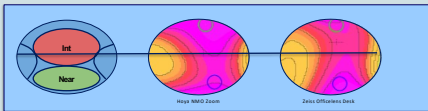


- Add Power for 60cm – 90cm (24-36 inch) working distance is centered around fitting reference point
- +0.50 to +1.00 EA at "distance"
- Full Near zone 10-15mm below FRP
- FRP is set at pupil center
- Large frame 'B' dimension (min. 30 mm)



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Designs: NVF - Intermediate/Near

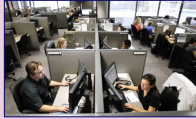


- Stationary Presbyopes – Intermediate to Near with wide FOV
- Multiple computer screens, cubicle workspace, multiple OTC readers

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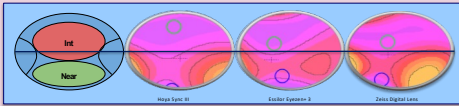
Understanding Computer Lenses

Powerboost as Intermediate/Near



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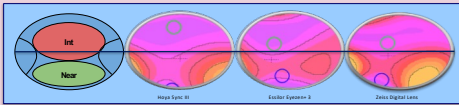
Design: Powerboost as Intermediate/Near



- "Powerboost": designed and marketed to pre-presbyopes
- Can be designed for intermediate/near use for presbyopes
- Large, wide, stable "top" half of lens: Minimal peripheral aberration, edge-to-edge clarity at FRP
- Can use smaller frame 'B' dimension (min. 20mm)

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Designs: Powerboost as Intermediate/Near



- Stationary occupation – Intermediate to Near with wide FOV (no distance)
- Multiple computer screens, cubicle workspace, multiple OTC readers

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NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Esilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

 Traditional design, not digital, freeform
 Depending on the ADD and Fitting Height, the software determines the corridor lengths above and below the FRP

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How to Prescribe & Order

Dr. I. M. Happy
123 Sunshine St.
Amazing, CA 98765
510-123-4567

NAME Fred _____ DATE _____
ADDRESS _____

		Rx				
		SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
D.V.	O.D.	Plano	DS			
	O.S.	Plano	DS			
N.V.	O.D.	+2.50				
	O.S.	+2.50				

Remarks Intermediate +1.25, Hoya iD WorkStyle 3 Space

DR. _____

- Select design to satisfy
 - Intermediate Add
 - Visual Needs
- Dist Rx, ADD
- Dist. Mono PDs
- VFH to pupil center

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Key Features of Near Variable Focus Product Portfolios



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Essilor Computer Lens

ADD Power	Engraving	Back Off
+1.00 to +1.25	10	1.00
+1.50 to +1.75	15	1.50
+2.00 to +2.25	20	2.00
+2.50 to +3.50	25	2.50

- Traditional surfacing
- Poly only
- Full back off 10mm above FRP
- Near 14mm below FRP
- 50% of back off at FRP
- Lab selects back off, max 2.50

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Example: NVF - Full Range

Essilor Computer 2.00 w/50% backoff

- Rx: Plano Add +2.00
- Essilor recommends Computer 2.00 (2.00D Backoff)

NVF - Full Range	Transition Length	Distance (above FRP)	Near (below FRP)	Power at FRP
Computer Lens	24mm	10mm	14mm	50% of BO

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iD WorkStyle 3: Space, Screen, Zoom

- Far point/distance 11-14mm above FRP
- Near 15-18mm below FRP
- Intermediate Add is 50% of patient's full Add

Design	EA @ Far point/Distance	Intermediate EA placement
Space	plano	2.5mm below FRP
Screen	+0.50 D	2.5mm below FRP
Zoom	+1.00 D	at FRP

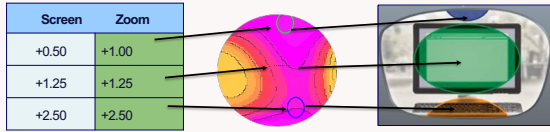
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Example: NVF - Int/Near

Screen and Zoom

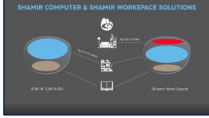
- Rx: Plano DS +2.50 Add
- Desktop Computer at 70 cm (+1.25D); near work at 40cm, no distance visual requirements

HOYA	Corridor Length (mm)	"Distance" (above FRP)	Effective Add at "Distance"	Near (mm below FRP)	Power at FRP (1/2 Screen below)
Screen	18-24mm	7-10mm	+0.50D	11-14mm	50% ADD*
Zoom	18-24mm	7-10mm	+1.00D	11-14mm	50% ADD



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Shamir WorkSpace, Computer



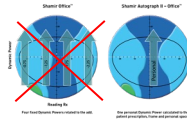
WorkSpace (Full Range)

- +0.25 EA at the top
- EA at FRP is 50% of add

Computer (Int/Near)

- +0.75 EA at the top
- EA at FRP = 50% Add plus +0.25D

Shamir Autograph II Office



Backoff design replaced with Dynamic power reduction design

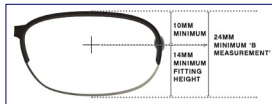
Autograph II Office

- Replaced Shamir Office
- dynamic power reduction 8mm above FRP, max -2.25
- Add 16mm below FRP

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Unity Via OfficePro 5ft & 10ft

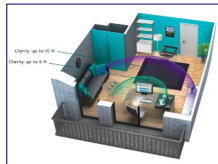
Power digression: 10mm above FRP
14 mm Min. Fitting HT.



Unity Via OfficePro 5ft

Power at FRP is designed to view 80cm

- EA +0.67D at top



Unity Via OfficePro 10ft

Power at FRP designed to view 110cm

- EA +0.33D at top

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Zeiss OfficeLens: Book, Desk, Room

OCCUPATIONAL LENS

INTERMEDIATE ZONE

FRP

At the top:

Book +1.00 Desk +0.50 Room +0.25

1 2 3

ZEISS OFFICELENS BOOK ZEISS OFFICELENS DESK ZEISS OFFICELENS ROOM

WORKING DISTANCE MADE EASY!

Fixed intermediate add at FRP +

Book +1.25D add
Desk +0.75D add
Room +0.50D add

0.25 reduction 4mm above FRP
Full add 10-15mm below FRP

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	Power Boost Lenses		Boost at the Bottom
	Zeiss Digital Lens	Digital 500	
Digital 750			+0.75
Digital 1000			+1.00
Digital 1250			+1.25
Eyezen	Eyezen +1		+0.40
	Eyezen +2		+0.60
	Eyezen +3		+0.85
	Eyezen +4		+1.10
Hoya Sync III	Hoya Sync 5		+0.57
	Hoya Sync 9		+0.95
	Hoya Sync 13		+1.32
Unity Relieve	Relieve 50		+0.50
	Relieve 70		+0.70
Shamir Relax	Relax 50		+0.50
	Relax 65		+0.65
	Relax 80		+0.80

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How to Design a Powerboost as Intermediate/Near

Example RX

Plano with +2.25, Intermediate effective ADD is +1.25

- Determine the EA at intermediate distance
- Select the appropriate Powerboost lens (difference between intermediate and Near adds)

Powerboost Lens	Boost	Fit	EA Int/Near
Sync5/Sync9/Sync13	0.55 / 0.95 1.32	Pupil	+1.25 / +1.80 +1.25 / +2.20 +1.25 / +2.57
Zeiss Digital Lens	0.50 / 0.75 1.00 / 1.25	Pupil	+1.25 / +1.75 +1.25 / +2.00 +1.25 / +2.25 +1.25 / +2.50
Eyezen+ 1/2/3/4	0.40 / 0.60 / 0.85 / 1.10	Pupil	+1.25 / +1.65 +1.25 / +1.85 +1.25 / +2.10 +1.25 / +2.35
Unity Relieve 50, 70	0.50 / 0.70	Pupil	+1.25 / +1.75 +1.27 / +1.95
Shamir Relax 50,60,80	50 / 60 / 80	Pupil	+1.25 / +1.75 +1.25 / +1.85 +1.25 / +2.05

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How to Prescribe & Order Powerboost for Int/Near

Dr. I. M. Happy
123 Sunshine St.
Amazing, CA 98765
510-123-4567

NAME: Fred ADDRESS: _____ DATE: _____

Rx: _____

		SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
D.V.	OD:	+1.25	DS			
	OS:	+1.25	DS			
N.V.	OD:					
	OS:					

Remarks: Zeiss Digital 1250 for Intermediate Use

DR: _____

- Select design (diff bw int/near)
- Intermediate RX in "distance"
- Intermediate Mono PDs
- VFH to pupil center

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5 Case Studies

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Case #1

- 58 YO Female
- New Administrator job
- CC: Tired eyes, neck/back pain
- MR: -2.25 DS OU Add +2.50
Intermediate Add +1.25

Previous Visual Demands	New Visual Demands
Removes glasses Int/Near	Removes glasses Int/Near
Int/Near 2-3 hr/day, intermittent	Int/Near 6 hr/day
iPad	Desktop computer
WD = 40 cm	WD = 70 cm

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-2.25 DS OU Int Add +1.25 Near Add +2.50

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @ 110cm 5ft @ 80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

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-2.25 DS OU
Int Add +1.25
Near Add +2.50
Diff. b/w Int & Add = 1.25 D

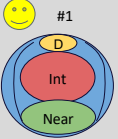
Powerboost Lenses Product Portfolio	Power Boost Lenses		Boost at the Bottom
	Zeiss Digital Lens	Digital 500 Digital 750 Digital 1000 Digital 1250	+0.50 +0.75 +1.00 +1.25
Eyezen	Eyezen +1	Eyezen +2	+0.40
	Eyezen +3	Eyezen +4	+0.60 +0.85 +1.10
	Hoya Sync III	Hoya Sync 5 Hoya Sync 9 Hoya Sync 13	+0.57 +0.95 +1.32
	Unity Relieve	Relieve 50 Relieve 70	+0.50 +0.70
Shamir Relax	Relax 50	Relax 65	+0.50 +0.65
	Relax 80		+0.80

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Case #2

- 55 YO Male
- Receptionist
- CC: GW PAL is not working
 - Tilting head up / neck pain
 - Small FOV
- MR: +1.00 DS OU Add +2.00
Intermediate Add +1.00





#1



#2

Visual Demands

Dist 40%, Int/Near 60%

Desktop computer

WD = 55 cm

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+1.00 DS OU Int Add +1.00 Near Add +2.00

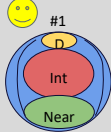

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft, 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

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Case #2

- 55 YO Male
- Receptionist
- CC: GW PAL is not working
 - Tilting head up / neck pain
 - Small FOV
- MR: +1.00 DS OU Add +2.00
Intermediate Add +1.00







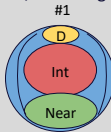
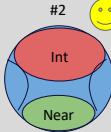
Lens Design	EA @ Distance
Essilor Computer	0.00
Hoya iD WorkStyle 3 Space	0.00
Shamir Autograph II Office	0.00
Shamir Workspace	+0.25
Unity Via OfficePro 10ft	+0.33

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Case #3

- 48 YO Female
- Homemaker
- CC: Wants one pair of glasses for Int/Near
- MR: Plano Add +1.75
Intermediate Add +0.75D
- H/O stacking OTCs



Visual Case History

Visual Demands
Dist = no Rx
Computer = OTC +0.75D
Near = OTC +1.00D over +0.75D

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Plano Int Add +0.75 Near Add +1.75

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Esilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft, 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

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Plano
Int Add +0.75
Near Add +1.75
Diff. b/w Int & Add = 1.00 D

	Power Boost Lenses	Boost at the Bottom
Zeiss Digital Lens	Digital 500	+0.50
	Digital 750	+0.75
	Digital 1000	+1.00
	Digital 1250	+1.25
Eyezen	Eyezen +1	+0.40
	Eyezen +2	+0.60
	Eyezen +3	+0.85
	Eyezen +4	+1.10
Hoya Sync III	Hoya Sync 5	+0.57
	Hoya Sync 9	+0.95
	Hoya Sync 13	+1.32
Unity Relieve	Relieve 50	+0.50
	Relieve 70	+0.70
Shamir Relax	Relax 50	+0.50
	Relax 65	+0.65
	Relax 80	+0.80

Powerboost Lenses Product Portfolio

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Case #4

- 52 YO Male
- Daytrader
- CC: GW PAL is good, SV near blur
- Lensometry: SV = -5.00DS
- MR: -6.25DS OU Add +2.00

Intermediate Add +1.25

#1

#2

Visual Case History

Visual Demands
GW PAL, SV Int/Near
Int/Near 90%
Desktop/4 screens, WD 75 cm

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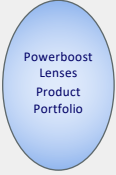
-6.25DS OU Int Add +1.25 Near Add +2.00

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

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-6.25DS OU
Int Add +1.25
Near Add +2.00


Diff. b/w Int & Add = 0.75 D

Powerboost Lenses	Power Boost Lenses		Boost at the Bottom
	Zeiss Digital Lens		
		Digital 500 Digital 750 Digital 1000 Digital 1250	+0.50 +0.75 +1.00 +1.25
	Eyezen	Eyezen +1 Eyezen +2 Eyezen +3 Eyezen +4	+0.40 +0.60 +0.85 +1.10
	Hoya Sync III	Hoya Sync 5 Hoya Sync 9 Hoya Sync 13	+0.57 +0.95 +1.32
	Unity Relieve	Relieve 50 Relieve 70	+0.50 +0.70
	Shamir Relax	Relax 50 Relax 65 Relax 80	+0.50 +0.65 +0.80

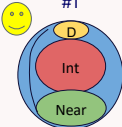
56

Case #5

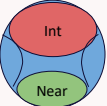
- 59 YO Female
- Violin player, first chair, SF Symphony
- CC: PAL not ideal to see music
- MR: -4.50 DS OU Add +2.50
Intermediate Add +1.25



#1



#2



Visual Case History

Visual Demands
Music and conductor
Dist/Int
WD 80 cm - opt. infinity

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-4.50 DS OU Int Add +1.25 Near Add +2.50

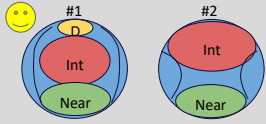
NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft, 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

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Case #5

- 59 YO Female
- Violin player, first chair, SF Symphony
- CC: PAL not ideal to see music
- MR: -4.50 DS OU Add +2.50
Intermediate Add +1.25





#1



#2

Lens Design	EA @ Distance
Essilor Computer	0.00
Hoya iD WorkStyle 3 Space	0.00
Shamir Autograph II Office	+0.25
Shamir Workspace	+0.25

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Rx recommendations to avoid confusion

Dr. I. M. Happy
123 Sunshine St.
Amazing, CA 98765
510-123-4567

NAME: Golden Bear DATE: _____

ADDRESS: _____

Rx	SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
OD	-2.25	DS			
OS	-2.25	DS			
ADD	+2.50				
BI	+2.50				

Notes: Intermediate = +1.00, Unity OfficePro 1.0 ft.

DR: _____

Dr. I. M. Happy
123 Sunshine St.
Amazing, CA 98765
510-123-4567

NAME: Golden Bear DATE: _____

ADDRESS: _____

Rx	SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
OD	-1.25	DS			
OS	-1.25	DS			
ADD					
BI					

Notes: Hoya Sync 13 designed for Int/Near.

DR: _____

Master Rx with Intermediate ADD

- Include Intermediate Add power
- Specify NVFL design

Powerboost Rx for Int/ Near use

- Release Master Rx
- Write separate Rx for PB
- Specify PB design & use

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At the End of the Day



- ❖ Did I address the chief concern with the appropriate recommendations?
- ❖ Is it an improvement over what they are used to?
- ❖ Continue to develop your skills in the art and science of vision care
- ❖ Practice with compassion

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On behalf of Vision Expo, I sincerely thank you for being here this year.

Vision Expo Has Gone Green!

We have eliminated all paper session evaluation forms. **Please be sure to complete your electronic session evaluations online** when you login to request your CE Letter for each course you attended! Your feedback is important to us as our Education Planning Committee considers content and speakers for future meetings to provide you with the best education possible.

https://www.visionexpo.com/celetter/mjhoff

Michelle J. Hoff, OD, FFAO, ABOM, FNAO
Associate Clinical Professor
mhoff@berkeley.edu
mhoff@vghtimecc.com

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Experience EXPO With Us!

- **Main Stage - Exhibit Hall - Booth P1586**
 - OptiCon General Session: Presented by United Opticians Associations (UOA) - A Conversation with Scott Shapiro, Thursday, 12:30pm - 1:30pm
 - UOA College Bowl, Friday, 12:30pm - 1:30pm
- **OptiCon Hub - Exhibit Hall - Booth P1271**

The OptiCon Hub is brought to you by the United Opticians Association (UOA). The UOA is the international member-based organization that represents Opticians, Contact Lens Technicians and Ophthalmic Allied Professionals.
- **Exhibit Hall Hours**

Thursday, Feb 20	9:30am - 6:00pm	Socials @ Poolside - Rosen Centre
Friday, Feb 21	9:30am - 6:00pm	Conferee Happy Hour Wed, Feb 19 6:00-7:00 pm
Saturday, Feb 22	9:30am - 3:00pm	Conferee Happy Hour Thur, Feb 20 6:00-7:00 pm
		Tropical Cocktail Reception Fri, Feb 21 6:00-7:30 pm

vision expo

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