

Visionary lenses for the computer generation

VARILUX computer™

In Europe, over 60% of 40 to 60 year olds now use computers at work and at home. Computers have become an indispensable tool with most people spending several hours a day in front of a screen.

The results are only to be expected: blurred vision, headaches, dry eyes and light sensitivity. Over 75% of computer users report these symptoms. At around the age of 40 they become aggravated by the normal decrease in visual acuity and accommodation capacity.

Now Varilux® is breaking new ground with the launch of a range of lenses specifically designed for the computer vision of presbyopes.

It is called, simply enough, Varilux Computer.™



Varilux Computer™

Market

Eye strain

Comfort

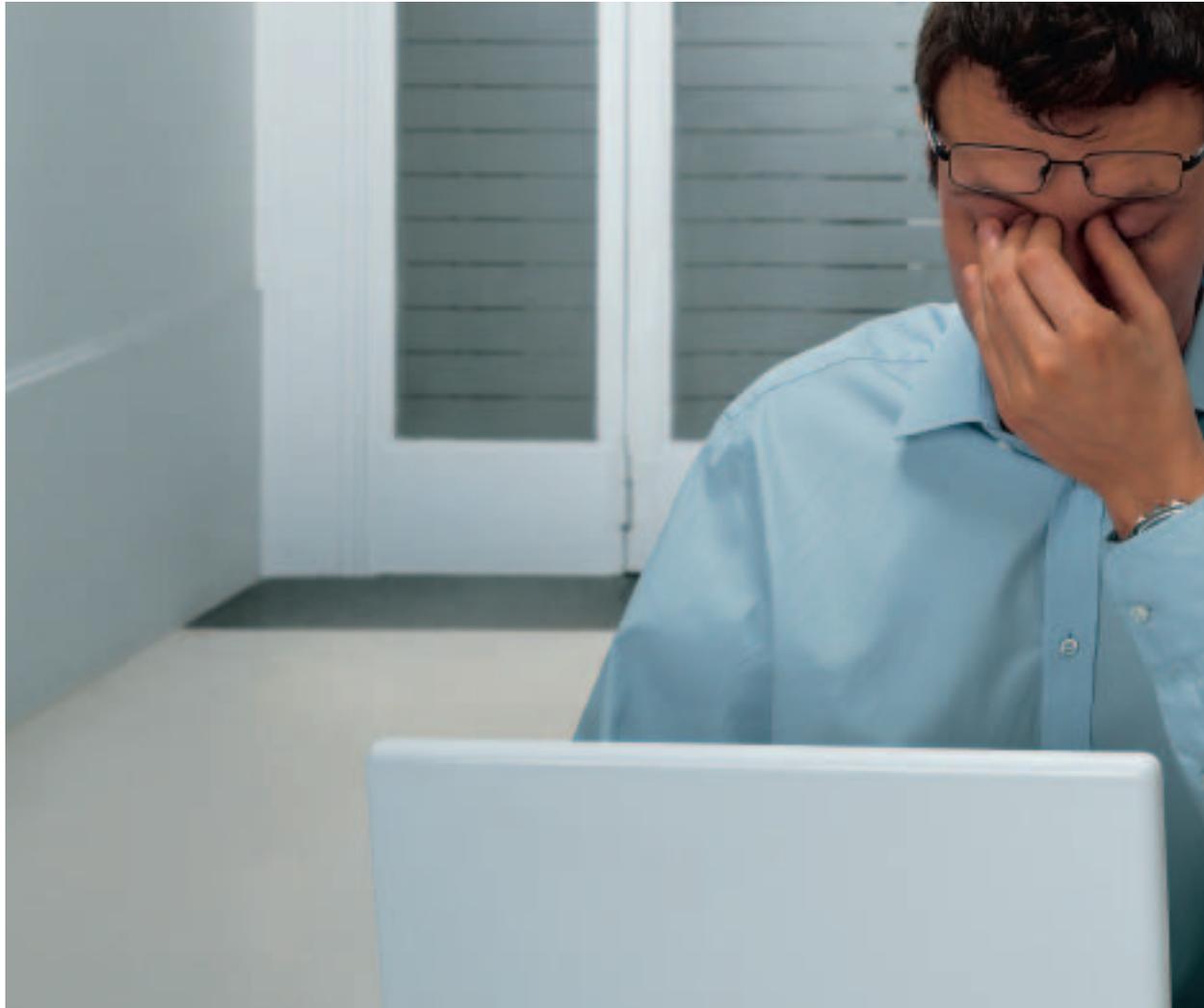
Performance

Ergonomics

Clarity

Technical specification

A computer generated problem



On a computer screen, the edges and shapes of characters are not as well defined as they are on paper. Each line comprises a large number of points or pixels, of varying brightness and contrast. The eye has to reconstruct the outlines.

Maintaining focus requires constant effort as the natural point of accommodation is located beyond the screen. They blink less in an effort to decrease successive refocusing after each blink. The eyes become dry and irritated. There are repeated shifts from keyboard to monitor...as many as 3,600 eye movements an hour!

A B C

Screen - the eyes must reconstruct outlines

A B C

Paper - the edges are well defined

Market

Eye strain

Comfort

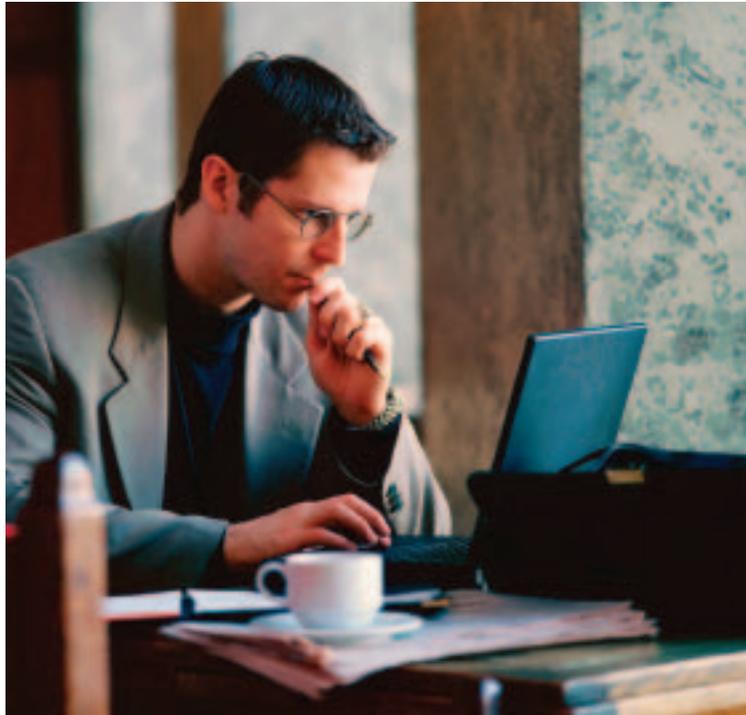
Performance

Ergonomics

Clarity

Technical specification

Varilux Computer.™ It takes two



Careful observation of computer users has identified two profiles which place different demands on the eyes. There are therefore two lenses in the range: Varilux Computer™ 2V and Varilux Computer™ 3V.

Both versions provide wearers with extra wide areas of clear vision for the screen and keyboard.

Varilux Computer™ 2V

This kind of user often works alone concentrating on the screen for long periods. The work may be painstaking involving tables and graphics that demand sharp vision.



There are often repeated eye movements from document to screen and there can be intense focusing on the screen itself. In this case visual and postural ergonomics are very important.

Varilux Computer™ 2V gives full coverage of both keyboard and screen. It allows for intense, prolonged viewing of the screen. A good solution for wearers who would not normally wear a distance correction.

Varilux Computer™ 3V

This type of user interacts frequently with their environment and other people, regularly shifting from computer vision to semi-distance vision. He or she may work in an open plan office, at a reception counter or in a conference room, attending meetings or making presentations. There are repeated shifts from screen to people around them.

Market

Eye strain

Comfort

Performance

Ergonomics

Clarity

Technical specification

Varilux Computer.™ A real innovation



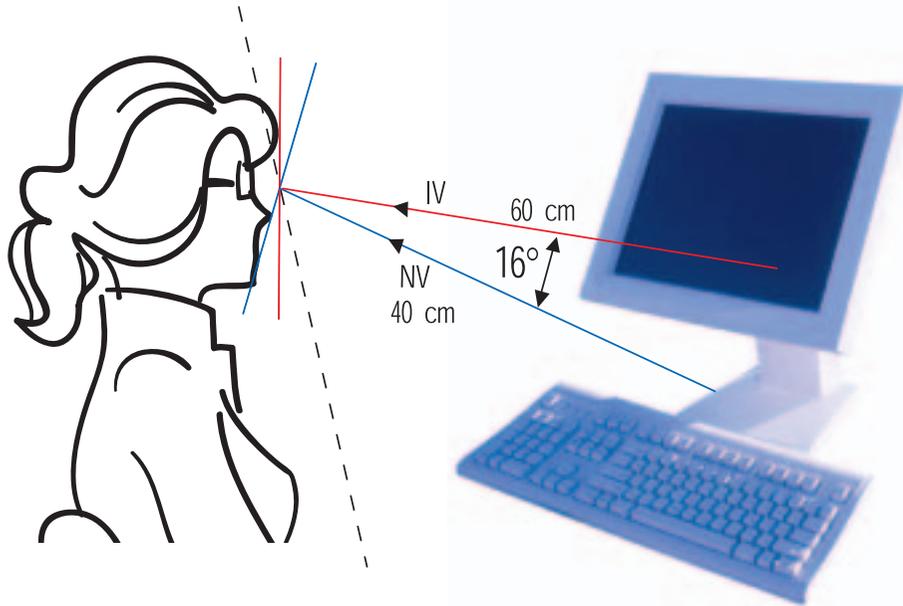
The Varilux Computer™ range was designed under real conditions, with close observations of computer use. The two lenses offer unparalleled viewing performance.

Both allow for natural head posture with a 30 degree angle between the positions for viewing keyboard and screen.

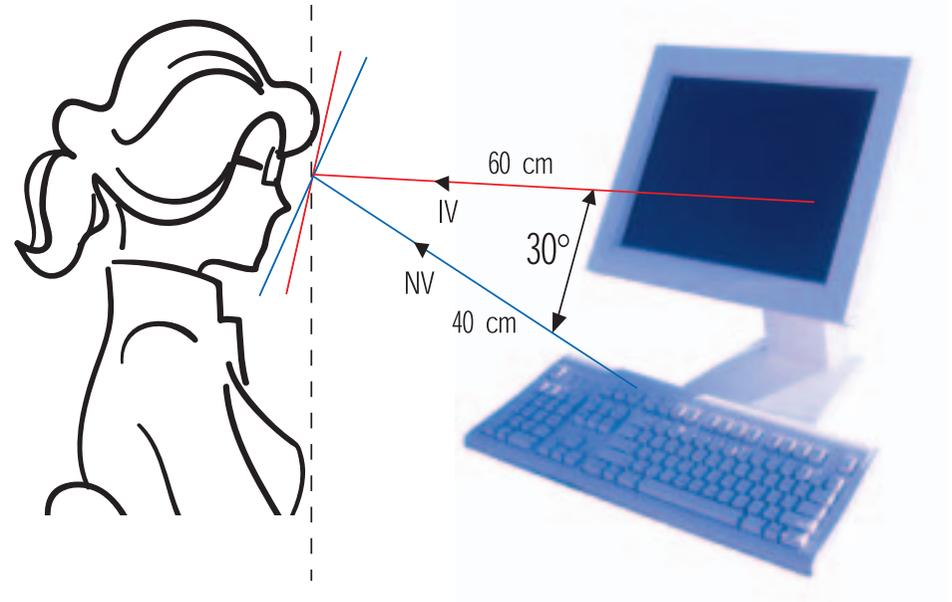
Both lens designs optimise the areas of clear vision for the screen and keyboard, making them particularly easy to use.



Market	Eye strain	Comfort	Performance	Ergonomics	Clarity	Technical specification
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Standard progressive: unnatural head position



Varilux Computer™: ergonomic posture



Market

Eye strain

Comfort

Performance

Ergonomics

Clarity

Technical specification

Varilux Computer.™ A clear winner



All Varilux Computer™ lenses can be coated with a choice of Supra, Trio or Crizal® Alizé™ coatings.

Crizal® Alizé™ is a premium coating that is smudge resistant and easy to clean.

Rain and grease just slide off the lenses so that they stay clean and clear for much longer. Reflections on the screen are reduced by 80% and contrast is improved making Crizal® Alizé™ ideal for computer work.

Crizal® Alizé™ is also scratch resistant, so that it helps maintain clearer vision for longer.

PERFECT WITH
Crizal® ALIZÉ™



How to dispense Varilux Computer.™

Whether the patient is best suited to the Varilux Computer™ 2V or 3V, the dispensing requirements are identical!

Frame Suitability

Minimum Depth - The frame should have a minimum overall depth (B measurement) of 30mm.

Fitting - As with all Varilux® lenses for ideal performance the frame should be fitted on the patient with a:

- Vertex Distance: 12 - 14mm
- Pantoscopic angle: 7° - 15°

It is advisable to ensure that, in a distance viewing position the patient views on or above the frame HCL (i.e. the frame does not sit too high on the patients face).

Centration

Pupillary Distance (PD) - Take the patients monocular **near** PD.

Fitting Heights - For ease of dispensing, both designs have been developed to be fitted on the horizontal centre line (aka datum) of the frame; therefore no height measurement is required.

Ordering

Varilux Computer™ 2V - Full near Prescription + Near Mono PD.

Varilux Computer™ 3V - Full distance Prescription + Reading Addition + Near Mono PD.

Glazing

Horizontal - Align the mounting reference dot with the patient near mono PD.

Vertical - Align the mounting Reference line on HCL (line of the micro engraving circles).

Power Checking - Check full near prescription at the @ checking circle.

NB: Ensure the 3V design has the lens ID engraving positioned nasally!
The 2V design has the ID engraving on both sides so this is not relevant.



Dispensing consideration.

1. It is worth always considering the nature of the patients distance Rx before selecting the most suitable Varilux Computer™ Vision design. Even if patients are immersion users, if they are also highly myopic or hypermetropic they may wish to have the ability to view a distance target at a glance without having to swap back to their full time correction (whether it be SV distance, standard varifocals or bifocals). Therefore although 2V is more suitable for their general VDU work the 3V design would be more suited to VDU work than a standard varifocal plus would allow them to glance at distance targets.
2. It is very possible that a patient who is dispensed with the Varilux Computer™ 3V will feel that their distance vision is corrected so well that they are able to drive with them. As with varifocals designed for special usage we strongly advise you to inform all patients not to drive with these lenses (2V or 3V). It may also be worth making a note that you have advised your patient not to drive in their computer lenses in the patient record!
3. Although Varilux Computer™ is available in Trio and Supra coated versions we strongly recommend that to maximise performance in an office environment a Crizal® Alize™ coating is applied to Varilux Computer™ lenses.
4. Varilux computer 3 Visions will always provide the full reading prescription, optimised field of vision for the computer screen and ensure the ideal ergonomic viewing posture.

FOR COMPUTER 3 VISIONS ONLY*

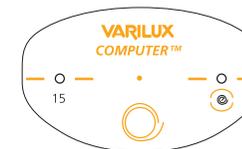
Prescribed addition	Converted value of Prescribed addition
1.00	1.00
1.25	
1.50	1.50
1.75	
2.00	2.00
2.25	
2.50	2.50
2.75	
3.00	

2 visions



R or L

3 visions



R



L

Lens Power checking

- Both lens versions should be checked using the near vision prescription.

Semi Distance Zone

*To optimise the computer vision, the power in the semi-distance zone of the lens can correspond to the distance prescription or can be over plused by 0.25D or 0.50D. Please refer to the table on the left.

Product Information

Range

Sph +5-00 to -6-00 cyl to 4.00
diameter 60\65\70\75\80

Please check the availability chart in your product catalogue, noting that the range chart refers to the near prescription.

Orma® 1.5	Crizal Alizé	Supra	Trio	Physiotints
Varilux Computer™ 2V	●	●	●	PhysioGrey 0 (82% transmission)
Varilux Computer™ 3V	●	●	●	PhysioGrey 0 (82% transmission)

Where to order Varilux Computer™

Varilux Computer™ can be ordered directly from Essilor, through a Varilux Specialist Laboratory or a wholesale glazing partner.

VARILUX computer™



www.variluxcomputer.co.uk



Essilor Ltd, Cooper Road, Thornbury, Bristol, BS35 3UW.

Varilux keeps progressing. You will too.

VARILUX[®]

