



// DISPENSING TOOLS & INSTRUMENTS
MADE BY ZEISS

Product Catalogue 2013



We make it visible.

Optometry in the 21st Century

Welcome to the new age of technology.

The development and evolution of technology has greatly improved our lives. From booking a ticket to online banking, technology has made everything easier, faster and more comfortable. These innovations have equally impacted the field of eye care.

Eye care professionals like yourself are turning away from paper and embracing such technological innovations in their practice. The adoption of high technology is key for enabling easier interaction with patients, more exact and faster measurements as well as differentiation in the market.

From **ANAMNESIS** to finished **ZEISS** lenses, and all the steps in between, our dispensing tools are designed to allow you to spend more time on what matters most – your patient – and to aid you in prescribing the best vision solution.

When it comes to better vision for your patient, the outcome is the key. We know about your needs as an eye care professional in the 21st century and offer complete business solutions to support you in delivering the best vision care.

ZEISS pioneered centration systems in 1992 with the first video centration system Video Infral I followed by Video Infral II in 1999. Today, more than 15 million patients in more than 30 countries are measured with ZEISS technology every year. And more than 10,000 devices are now used all around the world.

“When asked about what is most important in the doctor’s office, an overwhelming 88.9% said it is very or somewhat important that the doctor’s office utilizes the latest technology and equipment.”

Jobson Optical Research, 2012

Driving innovation is the past, present and future of ZEISS



// 1 Exam & Refraction



i.Profiler^{® plus}



i.Polatest[®]

// 2 Lens Fitting & Consultation



i.Terminal^{® 2}

// 3 Productivity & Efficiency Tools



LOGON[®]



i.Com Software and i.Com Server

All ZEISS instruments and applications are designed and interlinked for seamless integration into your practice workflow.

ZEISS offers professional instruments for exam and refraction (*i.Polatest[®]* and *i.Profiler^{® plus}*), leading to specialized lenses with *i.Scription[®]* technology, as well as tools for lens fitting and consultation (*i.Terminal^{® 2}*) which yield fast and simple centration data. Productivity tools and services such as *LOGON[®]* (online ordering system for ZEISS eyeglass lenses) and *i.Com 2* (data management system) enable

a standardized consultation and sales process as well as the smooth flow of all measurement data, including administration and archiving. Staying abreast with emerging technologies and the most innovative instruments has revolutionized practices around the world. Discover the ZEISS product portfolio and solutions designed with the success of your business in mind.



"This [i.Scription[®] technology] is the standard of care necessary to have in a private practice if you are going to be successful in the 21st century."

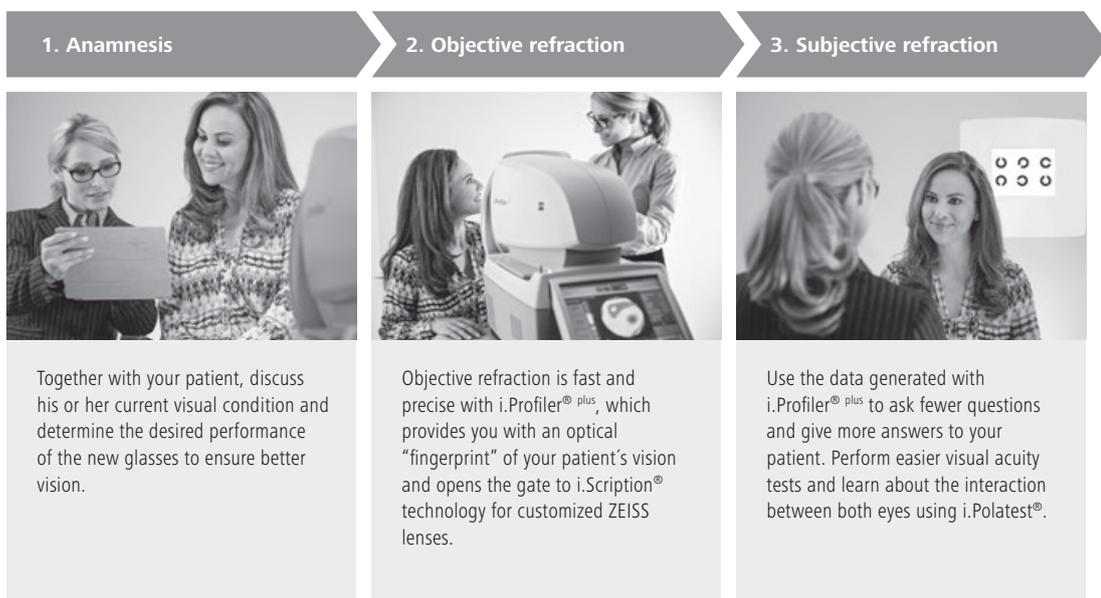
Dr. David Kaplan, Family Eyecare of Glendale, USA

Hand in hand with technology

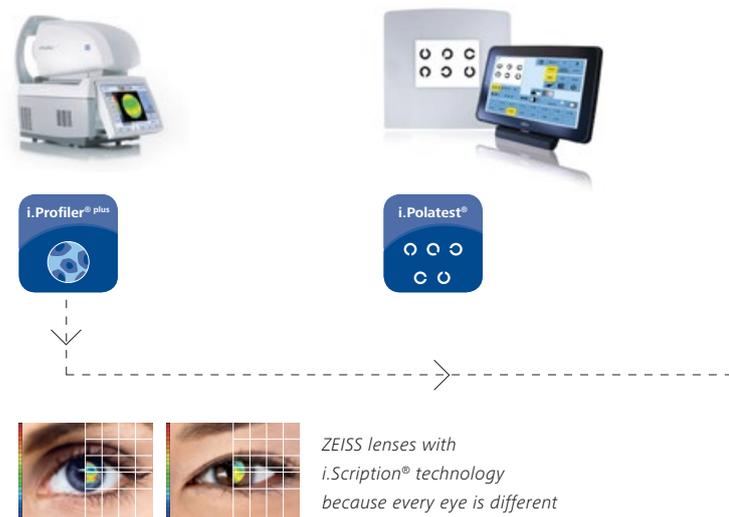
ZEISS Analysis guides you to customized ZEISS lenses

With the ZEISS Analysis – a 21st century standard of care – patient examination becomes a technology-driven experience thanks to the integration of ZEISS dispensing instruments into the consultation process.

Learn about your patients' eyesight in great detail, even under low light conditions, so you can ask less questions and have more answers. Ensure a comfortable frame and lens fit for optimum performance by capturing your patients' fitting parameters with just a few clicks. Store and manage the captured patient data and place a direct order through ZEISS productivity and efficiency tools. All ZEISS measuring instruments are interlinked so you and your patients can enjoy a new standard of care from beginning to end.



// 1 Exam and Refraction



4. Selecting the right frame

5. Frame and lens fitting

6. Lens selection

7. Deliver better vision



Not only are the lenses important, but so is the frame. Together with your patient, choose the one which fits his or her face and lifestyle best.



Capture your patient's individual fitting parameters using the i.Terminal® 2. In just 60 seconds obtain all necessary data with a precision of 1/10 mm. This will allow you to optimize your patient's vision and provide a fully customized lens.



Based on the results of your patient's tests, identify and recommend the ZEISS lens which suits his or her visual requirements best. Your patient's data is transferred and stored in i.Com 2. Thanks to its link to LOGON® ordering system, placing an order becomes fast, easy and secure.



Your patient's new pair of ZEISS glasses has been tailored to his or her specific visual requirements to ensure full satisfaction and a premium patient experience.

// 2 Lens Fitting & Consultation

// 3 Productivity & Efficiency Tools



ZEISS customized lenses because every face is different

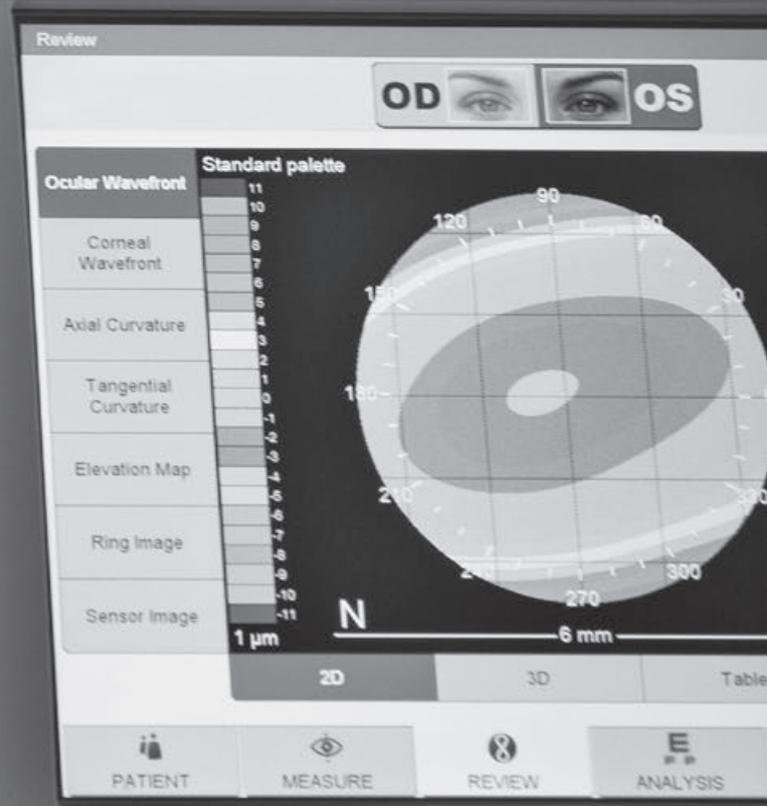


The moment you have less questions
and more answers for your patient.

This is the moment we work for.



//i.PROFILER® plus
MADE BY ZEISS



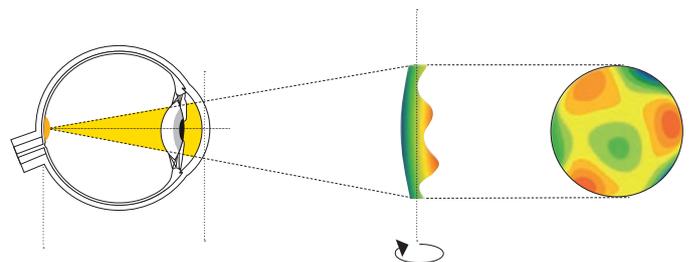
// 1 Exam and Refraction

The eye is one of the most complex systems in the human body. The numerous elements within this system come together to build a whole where even the smallest imperfection of the lens leads to distortion.

Optimum visual performance derives from the best cylinder/axis combinations, which can be determined through both subjective and objective refraction. Enhance your refraction process with the i.Polatest®, the neat and modern tool for binocular subjective refraction. This instrument will not only test visual performance, but the interaction between both eyes as well. Since 1961 with the Polatest, ZEISS has provided different instruments for subjective refraction. With numerous advances throughout the years, i.Polatest® represents a state-of-the-art technology in refractive testing.

Objective refraction reaches a new level with i.Profiler® plus, the first instrument based on innovative wavefront technology that precisely and objectively measures the vision profile of your patients – including highly dilated pupils to simulate night and twilight conditions. i.Profiler® plus with i.Scription® technology is the second generation of autorefractors by ZEISS, following the i.Profiler® from 2007.

ZEISS instruments are designed to thoroughly examine your patient while providing them with a comfortable and technology-driven experience. The collected data will support you in providing your patient with a prescription that is as individual as their eyes, and profoundly different in terms of visual performance.



Autorefractometry with the i.Profiler® plus

Less questions and more answers

The correct lenses can only be prescribed when you have enough information about your patient's eyes. Let i.Profiler® plus provide you with a detailed visual profile so you can have more answers and less questions for your patient.

The i.Profiler® plus is the 4-in-1 compact system with ocular wavefront aberrometer, autorefractometer, ATLAS corneal topographer and keratometer. The fully automated measurement procedure, with easy-to-use touch screen control, enables all measurements of both eyes in approximately 60 seconds. The eye's refractive power distribution is analyzed and represented across the entire pupil aperture. This is what distinguishes the i.Profiler® plus from conventional autorefractors and what opens the gate to ZEISS lenses with i.Scription® technology.



High-resolution Hartmann-Shack wavefront sensor.
The wavefront is sampled at 1,500 points across 7 millimeter pupil aperture

Fully automated measurement procedure

Adjustable chin rest for comfortable head positioning



reddot design award winner 2011



"As a ZEISS partner with the i.Profiler® plus I represent the best in the market, especially in terms of quality and innovation."

Dario Ricci, Ottica Ricci, Italy

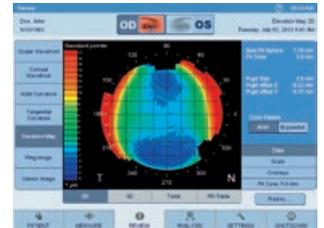
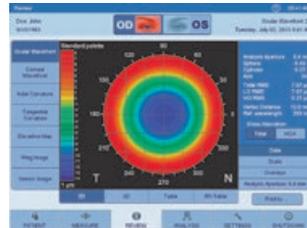


Access to i.Scription® technology by ZEISS for improved night vision

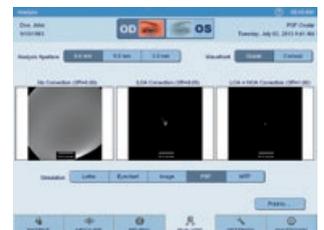
Clearly structured functions enable capture, evaluation, presentation and analysis of data

Touch screen control enables all measurements of both eyes in 60 seconds

The measurement data from the i.Profiler® plus is saved on the i.Com data management system and can be used for future consultations, ordering and archiving without any need of further measurements. It interfaces with most common PMS systems for a smooth workflow guarantee. i.Com and i.Profiler® plus are available together as a package solution.



i.Profiler® plus features a high-resolution wavefront measurement and corneal topography which provide you with all data needed in order to evaluate the refractive status of your patient's eyes.



The analysis mode enables you to visualize the impact of different aberrations on your patient's vision, including up to 7th order Zernike aberrations. Additionally, the benefits of i.Scription® technology can be simulated through the point-spread function.

Technical Data, Wavefront

Measuring range	sphere: -20 D to +20 D
Axis	0° – 180°
Measuring surface	2.0 mm to 7.0 mm (3 zones)
No. of measuring points	Up to 1500
Method	Hartmann-Shack
Reference wavelength	1 555 nm (ISO 24157)

Technical Data, Corneal Topography

No. of rings	22 (18 complete rings)
No. of measuring points	3,425
Detected corneal surface at 42.125 D	Dia. 0.75 mm to 9.4 mm
Diopters	Measurement range 25 to 65 D
Accuracy	± 0.05 D (± 0.01 mm)
Reproducibility	± 0.10 D (± 0.02 mm)
Type A	Complies with 19980

Physical Data

General dimensions	420 mm x 600 mm
Weight	30 kilograms
Power connection	100 V~ to 240 V~
Supply frequency	50 Hz to 60 Hz
Power consumption	≤ 200 VA

The moment driving at night becomes comfortable and safe.

This is the moment we work for.



//i.SCRPTION® TECHNOLOGY
MADE BY ZEISS

ZEISS precision lenses with i.Scription® technology

The outcome is the key

i.Profiler® plus does not only provide you with a better prescription, but also gives you access to an optimized, individualized lens solution with i.Scription® technology for improved color and contrast vision as well as better night vision.

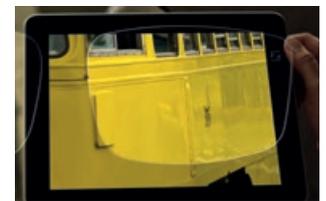
With customized i.Scription® lenses, your patients benefit from:



Better night/ low-light vision:
Looking directly at a light source at night, such as car headlights, results in glare and halo effects. i.Scription® technology reduces image noise.



Better visual contrast:
Seeing contrast, such as white letters on a black background, is especially challenging for the eyes. i.Scription® technology sharpens contrast.

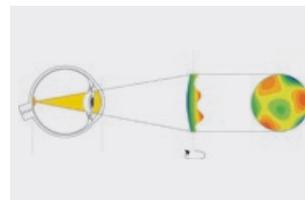


Better color vision:
i.Scription® technology adds more brilliance to life and lets lens wearers see colors as they really are: bright and more intense.

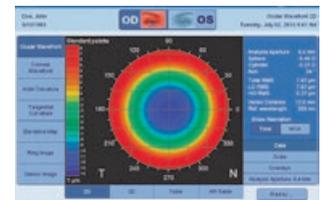
i.Profiler® plus enables i.Scription technology through precise, automated measurement of your patient's visual profile.



Using Wavefront technology
the i.Profiler® plus generates a detailed visual profile of both eyes in just 60 seconds.



A harmless beam of light will enter the eye to measure how light passes through the eye to map higher order aberrations with up to 1500 sample points, which are responsible for decreased performance in night vision. This process will take place in a few seconds while your patient is focusing on the image of the hot air balloon presented by the i.Profiler® plus.



i.Scription® technology involves an innovative, patented algorithm¹ which combines the subjective refraction values with the i.Profiler® plus ocular wavefront aberrometry data to calculate an individualized prescription to 1/100th of a diopter – incorporated in a ZEISS lens with i.Scription® technology.

¹ US Patent 7,744,217. Other patents pending. Product designed and manufactured using Carl Zeiss Vision technology. i.Profiler® plus US Patent 7,744,217. Other patents pending. Product designed and manufactured using Carl Zeiss Vision technology.



Daytime: good vision Nighttime: blurry vision & halo effects

Why is i.Scription® technology particularly beneficial in low light conditions?

Conventional manifest refraction is performed in well illuminated rooms, leading to prescription values that work well in daylight situations. However, as the pupil enlarges in low light situations, the peripheral aberrations of the eye can lead to refractive shifts that make the conventional prescription no longer valid. i.Scription® technology is able to combine the information about peripheral aberrations provided by i.Profiler® plus together with manifest refraction, resulting in an optimized prescription to provide better day and night vision.

i.Polatest®

Much more than refraction

An important part of a comprehensive eye examination involves subjective testing of refraction, not only to provide a prescription for corrective lenses but also to determine the best acuity an eye can achieve.

There are different ways to assess the refractive status of your patient's eyes. Hundreds of years ago, Native American tribes used the binary star as a non-quantitative measurement of visual acuity. Testing was based only on subjective factors and individual responses.

Although nowadays this refractive test is still based on subjective responses from the patient, technology has made possible the development of more precise and accurate measurement tools for refraction.

With i.Polatest® visual performance for both eyes can be determined at the same time, taking into account the complexity and multidimensionality of vision as well as the interaction between the two eyes.

Being able to test vision binocularly based on polarization separation, i.Polatest® provides a superior and efficient way to screen and measure binocular vision deficiencies.

Discover what makes i.Polatest® the perfect partner in the examination room.

Separation technology for 45°/135° polarization axes

Homogenous illumination and high contrast of the optotypes

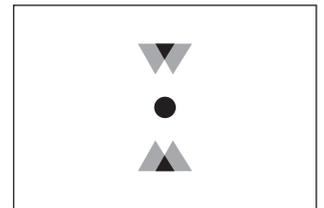
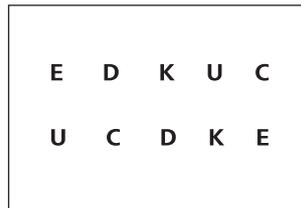
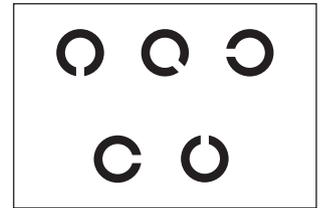
Touch screen operation allows selecting the required functions directly on the screen

Flat screen design with premium glass front panel prevent steps or shadows



More than 45 different monocular, binocular and astigmatism optotypes for thorough vision testing

High flexibility for structuring the test routine and sequence



i.Polatest is able to test vision acuity both monocularly and binocularly through a wide variety of optotypes and tests to suit every patient.

Technical Data

Line voltage	100 V to 240 V AC $\pm 10\%$
Frequency	50 to 60 Hz
Power consumption	70 VA
Ambient conditions for intended use	Temperature: +10 °C to +35 °C Relative humidity: 30% to 85% (no condensation)
Transport and storage conditions (in original packing)	Temperature: -15 °C to +60 °C Relative humidity: 10% to 85% (no condensation)
Protection class	I
Test area size (width x height)	299.5 mm x 223.5 mm
Testing distance	1 m to 8 m
Polarization direction for analyzers	Image for right eye: 45° Image for left eye: 135°

Physical Data

Dimensions (H x W x D)	608 mm x 570 mm x 85 mm
Weight incl. wall mounting bracket	12.75 kg
IR remote control unit	3 V, < 100 μ A
Spare parts	Line fuse: 2x T 2.0AE/250V Battery for IR remote control unit: 2x Micro AAA 1.5 V

i.Polatest® includes an IR remote control; touchscreen panel optional.

The moment you forget there is another way to collect measurements.

This is the moment we work for.



// 2 Lens Fitting & Consultation

Achieving the best vision possible is more than just an accurate prescription. It's about individualized lens solutions and how the lenses are placed in the frame and on your patient's face.

Digital centration systems represent a valuable alternative to standard manual lens centration. The technology behind these digital tools will actively deliver the level of innovation demanded by patients today.

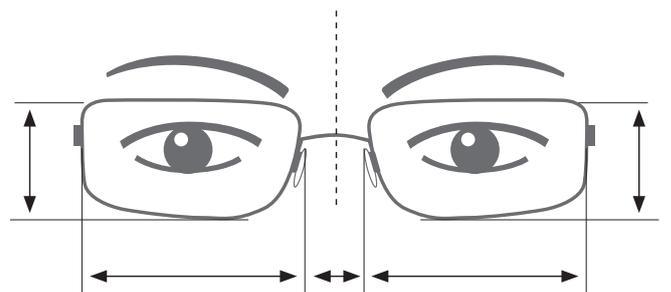
Manual measurement effectiveness is dependent on the skills of the person conducting the measurement.

Since 1992, when ZEISS launched the very first digital centration device – Video Infral, ZEISS has continued to stay up to date with successors like i.Terminal® in 2004. This device was rated as the “top centration device in the market” in 2011⁶.

Based on constant market feedback and the rise of advanced technology, the second and latest generation of our centration device, the i.Terminal® 2 was launched in 2011 and features the new standards of technology to support the eye care professionals in providing better vision.

Incorporate the latest ZEISS lens-fitting innovation in your practice and ensure a personalized lens for each face, frame and prescription. Enjoy additional benefits like streamlining your workflow and growing your share of customized lenses by employing i.Terminal® 2 in your consultation process and implement a 21st century standard of care.

⁶ Source: US Survey in 2011 on digital centration with 1,786 eye care professionals.



i.Terminal® 2

Another way to collect centration data

With i.Terminal® 2, the latest ZEISS centration device, fitting parameters are captured digitally for advanced lens customization.



reddot design award
winner 2011

Lens fitting plays a key role in maximizing visual comfort, as fitting errors can cause up to 40% loss in lens performance. i.Terminal® 2 captures and calculates your patient's individual parameters with the click of a button and a precision of 0.1 mm which can result in a decreased complaint rate, reduced non-adaptions and relaxed vision for your patients.



Fast photo acquisition

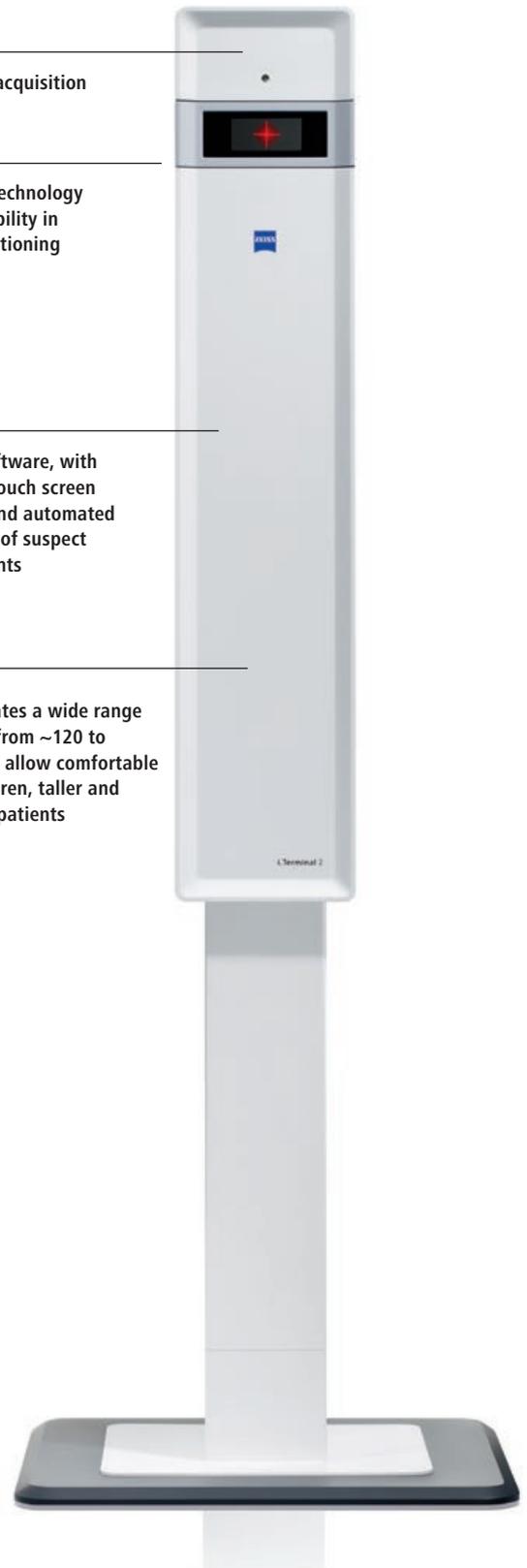
Autofocus technology allows flexibility in patient positioning

Intuitive software, with option for touch screen operation and automated recognition of suspect measurements

Accommodates a wide range of heights, from ~120 to 208 cm that allow comfortable use on children, taller and wheelchair patients

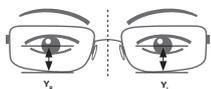
Enables measurement of highly ametropic patients through proprietary vergence control technology

Can be used with any type of frame including large-sized sunglasses and sports frames



In 60 seconds, i.Terminal® 2 can capture and calculate various fitting parameters including:

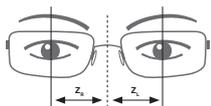
- Frame data (A, B, DBL)
- Interpupillary distance (PD)
- Monocular pupillary distance (mono PD)
- Fitting height, segment height
- Back vertex distance (BVD)
- Pantoscopic angle (PA)
- Wrap angle



Fitting height, segment height



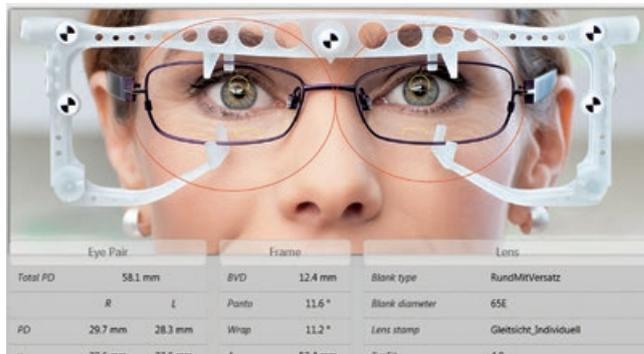
Back vertex distance (BVD)



Interpupillary distance



Pantoscopic angle (PA)



Reviewing the results is faster and more convenient than before. All fitting parameters are shown at a glance, and results can be printed, transferred to i.Com 2 as well as to third-party practice management systems for lens ordering.



Its straightforward and comfortable user interface allows easy operation directly on your PC screen.

Start i.Terminal® 2 directly from the i.Com 2 software on your PC



i.Terminal® 2 is packaged with i.Com 2 software and server – your personal control unit for easy data transfer throughout your practice, and includes lens feature demonstration software (i.Demo™) (Screen not included)

Technical Data

Range of patient height	~120 – 208 cm (equivalent to 110 – 195 cm eye level)
Patient distance from device	50 – 100 cm
Camera resolution	Physical resolution 100 µm (at 50 cm object distance)
Acquisition method	Autofocus digital camera
Vergence control	Proprietary laser speckle target technology
Connectivity	Open XML interface, full integration with i.Com
Operating system	MS Windows XP SP3, MS Vista (32/64 bit), MS Windows 7 (32/64 bit)
TCP/IP network protocol	Min. network speed 100 Mbps; WLAN (optional)

Physical Data

Dimensions	125 – 210 cm x 60 cm x 60 cm (HxWxD)
Weight	47 kg
Lighting	300 – 1000 lux
Line voltage	100-240 V AC ± 10%, 50 ... 60 Hz

The moment technology brings you
closer to your patient's needs.

This is the moment we work for.



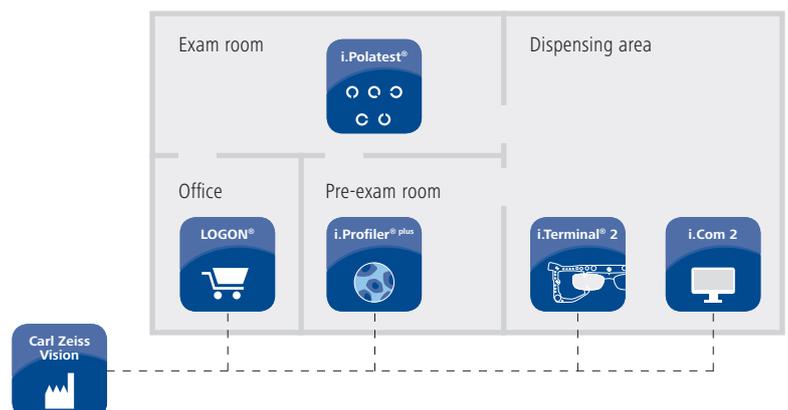
// EFFICIENCY
MADE BY ZEISS

// 3 Productivity & Efficiency Tools

Over the past few decades, the introduction of innovative technologies has revolutionized the way we collect and process information. Nowadays, data can be transferred from one device to another with the click of a button, making processes faster and error-free.

ZEISS, as one of the pioneers in technology, offers systems able to manage data such as patient measurements and lens ordering through i.Com 2 and LOGON®. These enable streamlining of your workflow in a completely paperless process all across your practice – from the refraction room to the sales floor. Reduce errors from manual data transfer and overtime in the back office as this is all done automatically with a few clicks.

A paperless workflow environment allows for space saving, reducing the need for filing cabinets and manual file searches. Service and online updates for all connected ZEISS instruments ensure optimal performance and usage. Your full attention can be directed to your patient, as data management is done automatically. For practices handling more than 30 patients a day, productivity and efficiency tools are key.



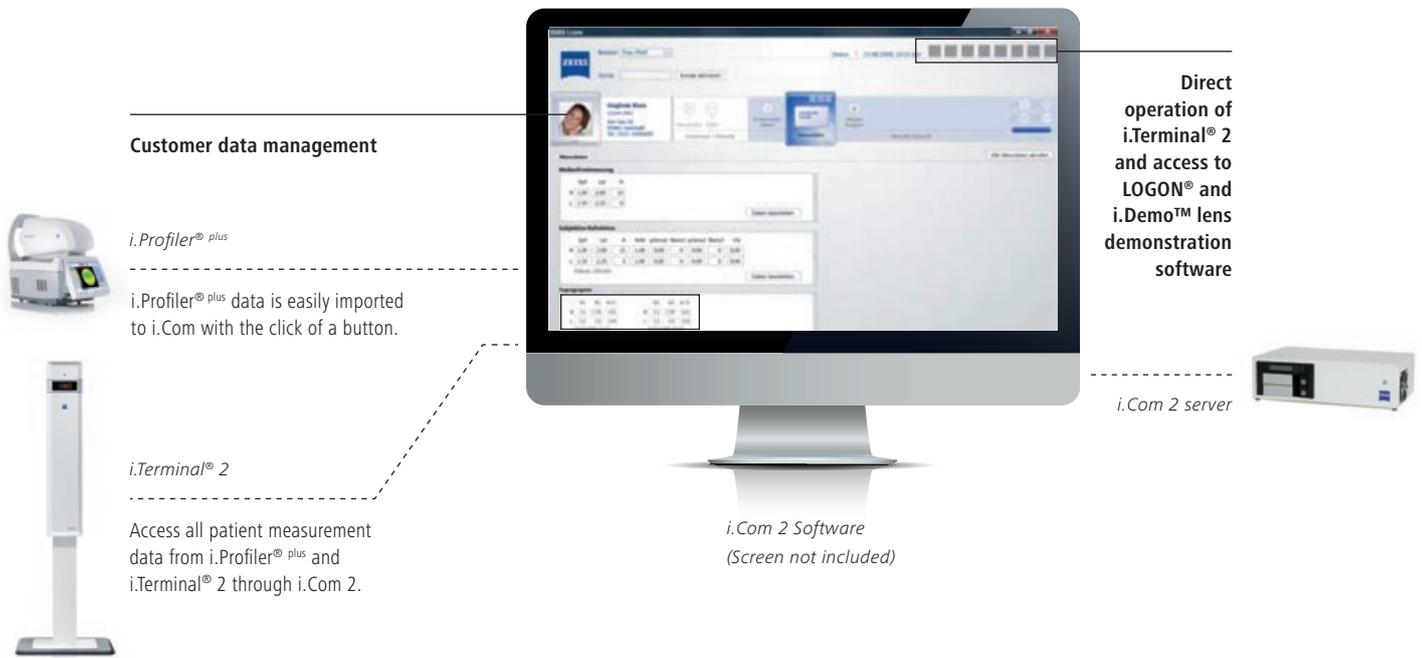
i.Com 2

The network-capable ZEISS communication software

i.Com 2 – second generation – is the network-capable communication software for all tasks relating to connectivity, measurement, consultancy and ordering.

Installed on a high-capacity server, it stores all the information collected in the sales process and ultimately forms the basis for the ordering process and the production of the eyeglasses. Data is available at every workstation with the click of a button. Full connectivity between all ZEISS instruments allows you to structure your workflow and upgrade your practice.

Remote updates, ensure a smooth performance of i.Profiler^{® plus} and i.Terminal^{® 2}. Your data is protected by RAID system (double hard disk) with high security. i.Com 2 easily interfaces with most common PMS like OfficeMate and IPRO.



Customer data management

i.Profiler^{® plus}
i.Profiler^{® plus} data is easily imported to i.Com with the click of a button.

i.Terminal^{® 2}
Access all patient measurement data from i.Profiler^{® plus} and i.Terminal^{® 2} through i.Com 2.

Direct operation of i.Terminal^{® 2} and access to LOGON[®] and i.Demo[™] lens demonstration software

i.Com 2 Software
(Screen not included)

i.Com 2 server

i.Com 2 is an essential partner for i.Terminal^{® 2} as it enables direct operation on a PC screen. i.Profiler^{® plus} and i.Com 2 streamline your workflow as data can be easily imported for quick i.Scription[®] lens ordering.

Physical Data, i.Com 2 server

Dimensions	45 x 41 x 45 cm
Weight	8 kg
System requirements	High speed internet access

LOGON®

The web-based ZEISS online ordering system

After collecting valuable data like prescription and measuring values, smooth transfer of information to the lens manufacturer is key. LOGON® is the simple and reliable online ordering application for ZEISS lenses.

LOGON® optimally bundles your eyeglass sales process. The integration of a large number of work routines into the system makes the consulting and ordering process simpler, faster and more efficient.

Nothing is lost, because the data collected in i.Com is automatically transferred to LOGON® for ordering purposes.

Fast and safe ordering of lenses, including edged lenses through support of standard tracers

Maximum reliability thanks to online calculation of edge and center thickness



Online tracking of order status

Visual demonstration provides improved information

Latest ZEISS lens catalogue allows a quick & easy lens selection to match your patient's needs

System requirements

Connectivity	DSL 1000 or higher. Compatible with most browsers.
Operating system	Microsoft® Windows version 2000 or higher. Windows XP or higher.

ZEISS business solutions

As amazing as our products

ZEISS is on a constant mission to provide optimum solutions to meet your needs and offer the highest possible benefit for you and your patients. We are here to support you.

Investing in technology

Advanced measuring technology is a long-term investment. ZEISS, as one of the technological leaders, provides precision through premium devices, as well as services and features to enable the success of your practice and the satisfaction of your patients.

More advantages

You can enjoy additional benefits by joining the ZEISS Partner programs. Discover the advantages of the ZEISS ACADEMY, a program which integrates the instruction of eye care professionals and employees under one roof.

Contact your ZEISS Business Development Representative for more information and a customized offer to find out if ZEISS instruments can be a business driver for you.



"ZEISS has demonstrated over and over again that it is a strong and reliable partner for independent practitioners."

Dr. David Kaplan, Family Eyecare of Glendale, USA

The moment you realize you just gave
your patient the ultimate visual experience.
This is the moment we work for.



// DISPENSING TOOLS & INSTRUMENTS
MADE BY ZEISS



Get more information

Visit us at www.zeiss.com/dti