Soft and rigid gas permeable contact lenses



Personnelle-KK Excellent-KK

Keratoconus contact lenses

High grade of keratoconus, high demand: fits like a mould.

info@appenzeller-kontaktlinsen.ch www.appenzeller-kontaktlinsen.ch



Little bowls of plastic – big window to the world.

i-soft



3-monthly soft contact lenses My yearly supply of soft contact lenses. Per eye.

i-MAP AS



Single vision - Multifocal - Bifocal High-tech for my everyday life: Coping with any situation.



Unifocale – Multifocale – Style de vie numérique My contact lens. As unique as my fingerorir

i-NIGHT



Orthokeratology at the highest level Wear overnight – see during the day: Without spectacles, without contact lense

Excellent AS Excellent MK



Single vision – Multifocal – Bifocal Classic, practical, excellent: You can count on this contact lens.

Personnelle-KK Excellent-KK



Keratoconus contact lenses High grade of keratoconus, high demand: fits like a mould.

1-MAP



For fitting with irregular corneae Fits when nothing else will.

i-MATRIX



Scleral lenses Corneal damage, keratoconus, keratoplasty? Still fits.

*pro*ASSIST



Professional support with progressive myopia Smart contact lenses instead of thick spectacle lenses.



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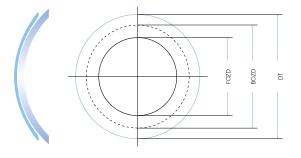
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Our recommendation for the care regime of soft and rigid gas permeable contact lenses

PERSONNELLE-KK

passt.

Individual keratoconus soft contact lens



Personelle-KK

→ Indication

Keratoconus up to grade 3.

\rightarrow Front surface design

- Spherical
- Prismatic stabilisation
- Dynamic stabilisation

\rightarrow Back surface design

- Spherical or toric

- Bi-curve, available in 3 different steps of peripheral flattening according to the corneo-scleral profile

Description

	De	sign	
~			

1	low peripheral flattening
2	normal peripheral flattening (standard)
3	high peripheral flattening

\rightarrow Product range

Everything that is technically possible. As kus – we are open for your individual wishes.

\rightarrow Materials

See list on page 12.

\rightarrow Fitting recommendations

In order to be able to provide you optimal support during the fitting process, it is best to send us the corneal topography in advance. Then we will send you a suitable Personnelle-KK and will be pleased to give you advice for the procedure during the fitting.

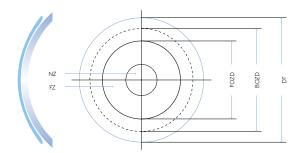
\rightarrow Exchange frequency

- 6 months
- 12 months

PERSONNELLE-KK Progress-N



Individual keratoconus multifocal soft contact lens



Personelle-KK Progress-N

\rightarrow Indications

- Keratoconus up to grade 3
- Presbyopia

\rightarrow Front surface design

- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre near
- The central zone contains the near and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal
- Centre near
- Toric version prismatic or dynamic stabilisation

\rightarrow Back surface design

- Spherical or toric
- Bi-curve, available in 3 different steps of peripheral flattening according to the corneo-scleral profile

Description	Design
1	low peripheral flattening
2	normal peripheral flattening (standard)
3	high peripheral flattening

\rightarrow Selecting the zone size

Pupil size in normal room lighting conditions (≥3.5 mm)	
Dominant eye distance	Central zone = 2.4 mm
Non-dominant eye	Central zone = 2.6 mm

\rightarrow Product range

Personnelle-KK Progress N

Back surface design	spherical
Base curve	7.5 to 9.3 mm in 0.05 mm steps
Spherical power range	±30.0 D in 0.125 D steps
Diameter	12.0 to 15.5 mm in 0.1 mm steps
Reading add	0.5 to 3.5 D in 0.25 D steps
Near zone diameter w	vithout restriction in 0.1 mm steps

Personnelle-KK Progress-N is available in toric-prismatic (TP) or toric-dynamic (TD) design.

Personnelle-KK Progress N TP/TD

Back surface design	Toric
Base curve	7.5 to 9.3 mm in 0.05 mm steps
Spherical power rang	e ±30.0 D in 0.125 D steps
Cylinder	-0.5 to -8.0 D in 0.125 D steps
Axis	0° to 180° in 1° steps
Diameter	12.0 to 15.0 mm in 0.1 mm steps
Reading add	0.5 to 3.5 D in 0.25 D steps
Near zone diameter v	vithout restriction in 0.1 mm steps

\rightarrow Materials

See list on page 12.

\rightarrow Fitting recommendations

In order to be able to provide you optimal support during the fitting process, it is best to send us the corneal topography in advance. Then we will send you a suitable single vision Personnelle-KK spherical or toric and will be happy to give you advice for the procedure during the fitting.

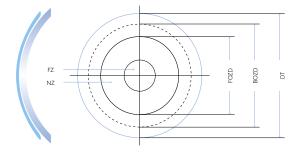
\rightarrow Exchange frequency

- 6 months
- 12 months

PERSONNELLE-KK Progress-F

passt.

Individual keratoconus multifocal soft contact lens



Personnelle-KK Progress-F

\rightarrow Indications

- Keratoconus up to grade 3
- Presbyopia

\rightarrow Front surface design

- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre distance
- The central zone contains the far and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal
- Centre distance
- Toric version prismatic or dynamic stabilisation

\rightarrow Back surface design

- Spherical or toric
- Bi-curve, available in 3 different steps of peripheral flattening according to the corneo-scleral profile

Description	
1	
2	
3	

escription	Design
	low peripheral flattening
	normal peripheral flattening (standard)
	high peripheral flattening

\rightarrow Selecting the zone size

Pupil size in normal room lig	hting conditions (≥3.5mm)
Dominant eye distance	Central zone = 3.6 mm
Non-dominant eye	Central zone = 3.4 mm

\rightarrow Product range

Personnelle-KK Progress F

Back surface design	spherical
Base curve	7.5 to 9.3 mm in 0.05 mm steps
Spherical power rang	e ±30.0 D in 0.125 D steps
Diameter	12.0 to 15.5 mm in 0.1 mm steps
Reading add	0.5 to 3.5 D in 0.25 D steps
Distance zone diamete	r without restriction in 0.1 mm steps

Personnelle-KK Progress-F is available in toric-prismatic (TP) or toric-dynamic (TD) design.

Personnelle-KK Progress F TP/TD

Back surface design	Toric
Base curve	7.5 to 9.3 mm in 0.05 mm steps
Spherical power range	e ±30.0 D in 0.125 D steps
Cylinder	-0.5 to -8.0 D in 0.125 D steps
Axis	0° to 180° in 1° steps
Diameter	12.0 to 15.0 mm in 0.1 mm steps
Reading add	0.5 to 3.5 D in 0.25 D steps
Distance zone diameter	without restriction in 0.1 mm steps

→ Materials

See list on page 12.

→ Fitting recommendations

In order to be able to provide you optimal support during the fitting process, it is best to send us the corneal topography in advance. Then we will send you a suitable single vision Personnelle-KK spherical or toric and will be happy to give you advice for the procedure during the fitting.

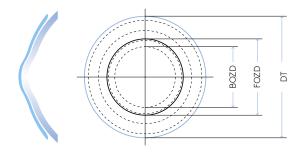
\rightarrow Exchange frequency

- 6 months
- 12 months

EXCELLENT-KK

Individual keratoconus rigid gas permeable contact lens





Excellent-KK

\rightarrow Indications

All grades of keratoconus (KK).

\rightarrow Front surface design

Spherical or toric.

\rightarrow Back surface design

- Spherical or toric

- Back optic zone BOZD, followed by several continuously flatter radii
- The peripheral flattening of the multi-curve back surface is defined by only one parameter – the flattening factor «AF»
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

\rightarrow Design options

Design	Description
VP	Front prism ballast
VPT	Toric Front prism ballast
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)
QSD (VP/VPT)	QuadrantSpecificDesign

→ Product range

Excellent KK	
Base curve	4.8 to 8.5 mm in 0.05 mm steps
Flattening factor «AF	» -4.0 to +4.0 in 0.5 steps
Spherical Power range	e ±30.0 D in 0.125 D steps
Cylinder	from -0.5 D in 0.125 D steps
Axis	0° to 180° in 1° steps
Diameter	8.3 to 10.5 mm in 0.1 mm steps

\rightarrow Materials

See list on page 13.

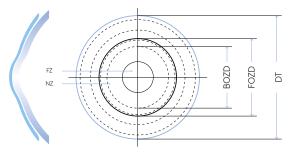
\rightarrow Fitting recommendations

See page 11.

PERSONNELLE-KK Progress-F

passt.

Individual keratoconus multifocal rigid gas permeable contact lens



Excellent-KK Progress-F

\rightarrow Indications

- All grades of keratoconus (KK)
- First choice for the correction of presbyopia with multifocal, special rigid gas permeable contact lenses

\rightarrow Front surface design

- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre distance
- The central zone contains the far and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal, spherical or toric
- Centre distance

\rightarrow Back surface design

- Spherical or toric
- Back optic zone BOZD, followed by several continuously flatter radii
- The peripheral flattening of the multi-curve back surface is defined by only one parameter – the flattening factor «AF»
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

\rightarrow Selecting the zone size

Dominant eye distance	Central zone = 4.5 mm
Non-dominant eye	Central zone = 4.3 mm

\rightarrow Design options

Design	Description
VP	Front prism ballast
VPT	Toric Front prism ballast
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)
QSD (VP/VPT)	QuadrantSpecificDesign

\rightarrow Product range

Excellent KK

Base curve	4.8 to 8.5 mm in 0.05 mm steps
Flattening factor «AF	» -4.0 to +4.0 in 0.5 steps
Spherical power range	e ±30.0 D in 0.125 D steps
Cylinder	from -0.5 D in 0.125 D steps
Axis	0° to 180° in 1° steps
Diameter	8.3 to 10.5 mm in 0.1 mm steps
Reading add	0.5 to 3.5 D in 0.25 D steps
Distance zone diameter	^r without restriction in 0.1 mm steps

\rightarrow Materials

See list on page 13.

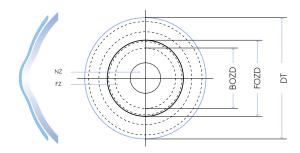
→ Fitting recommendations

See page 11.

EXCELLENT-KK Progress-N



Individual keratoconus multifocal rigid gas permeable contact lens



Excellent-KK Progress-N

\rightarrow Indications

- All grades of keratoconus (KK)
- Presbyopia

\rightarrow Front surface design

- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre near
 The central zone contains the near and intermediate
- The central zone contains the hear and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal, spherical or toric
- Centre near

→ Back surface design

- Spherical or toric
- Back optic zone BOZD, followed by several continuously flatter radii
- The peripheral flattening of the multi-curve back surface is defined by only one parameter – the flattening factor «AF»
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

\rightarrow Selecting the zone size

Dominant eye distance	Central zone = 3.2 mm
Non-dominant eye	Central zone = 3.4 mm

\rightarrow Design options

Design	Description
VP	Front prism ballast
VPT	Toric Front prism ballast
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)
QSD (VP/VPT)	QuadrantSpecificDesign

\rightarrow Product range

Excellent KK	
Base curve ·	4.8 to 8.5 mm in 0.05 mm steps
Flattening factor «AF»	» -4.0 to +4.0 in 0.5 steps
Spherical power range	±30.0 D in 0.125 D steps
Cylinder	from -0.5 D in 0.125 D steps
Axis	0° to 180° in 1° steps
Diameter	8.3 to 10.5 mm in 0.1 mm steps

Reading add0.5 to 3.5 D in 0.25 D stepsNear zone diameter without restriction in 0.1 mm steps

\rightarrow Materials

See list on page 13.

→ Fitting recommendations

See page 11.

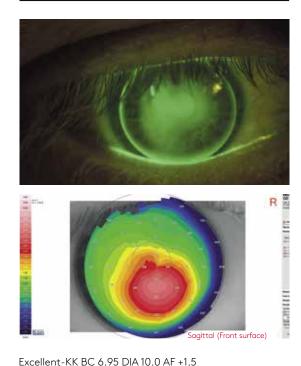
EXCELLENT-KK

passt.

Individual keratoconus rigid gas permeable contact lens

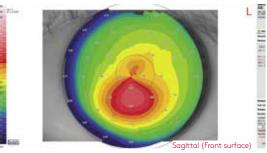
Case example

\rightarrow Example 1 (right eye)



 \rightarrow Example 2 (left eye)





Excellent-KK BC 7.15 DIA 10.0 AF +1.0 shows in the fluorescein pattern:

- an ideal central bridging

shows in the fluorescein pattern:

- an ideal mid-peripheral rotationally symmetrical landing
- an ideal tear film exchange at the edge (Bevel)

shows in the hubrescent pattern

- an ideal central bridging

- an ideal mid-peripheral rotationally symmetrical landing
- an ideal tear film exchange at the edge (Bevel)



Fitting recommendations

Step 1

Choosing the base curve (BC)

In most cases, the selection of the base curve is based on the mean value of the central corneal radii.

Example (see left side «Case example»)

Topography OD / OS	Base curve
Central radii average RE 6.95	6.95 mm
Central radii average LE 7.15	7.15 mm

Order

Example

Step 2

Selecting the flattening factor (AF)

The selection of the flattening factor is based on the mean value of the numerical eccentricity of the cornea (nE).

numerical eccentricity	flattening-
of the cornea (nE; mean value)	factor (AF)
<0.8	AF -1.0
0.8 to 0.9	AF 0.0
0.9 to 1.0	AF +1.0
1.0 to 1.1	AF +2.0
1.1 to 1.2	AF +3.0
>1.2	AF +4.0

Step 3

Selecting the total diameter

of the flattening factor of 1.0.

at the centre with ideal bevel.

The total diameter should be approximately 2 mm smaller than the HVID.

The higher the flattening factor AF, the more the contact

lens flattens peripherally. A modification of the flattening factor from AF 0.0 to AF +1.0 causes an increase of 0.1

mm in peripheral tear film exchange. A change of the base curve (with ideal bevel) of 0.1 mm causes a change

A trial lens Excellent-KK BC 7.2 AF 0.0 is 0.1 mm too flat

We will happily assist you for the fitting and calculation of the first trial lens. Please email us the topography and refraction data. For the further procedure of the fitting you can send us fluorescein images to support you.

Excellent-KK BC 7.1 AF +1.0



MATERIAL LIST

passt. Soft contact lenses

Very good +++ Good ++ Insufficient +	GM Advance 49	GM Advance 58	Contaflex 58	Contafelx 67	Contafelx 75	Contafelx GM3 58	lgel 77	Unisil 50	Definitive 65	SH74 Definitive	Benz G-3x	Benz G-4x	Benz G-5x	Genz G72 HW	Hiox 49	Hiox 54	Hema 38
Composition	HEMA/ GMA	HEMA/ GMA	MMA/ VP	MMA/ VP	MMA/ VP	HEMA/ GMA	MMA/ VP	Si/ VP	HEMA/ GMA	Si MVAC	HEMA/ GMA	HEMA/ GMA	HEMA/ GMA	HEMA/ GMA (MMA)	HEMA/ GMA	HEMA/ GMA	Poly- HEMA
Water content (%)	49	58	58	67	75	58	77	62	65	74	49	54	58	72	49	54	38
Dk-Value	16*	26*	21*	30*	43*	26*	45	50*	62*	60*	15*	20*	21*	42*			9
Modulus	0.36	0.16	0.75		0.35	0.27		0.8	0.75	0.35					0.44	0.34	
UV-filter	Yes	Yes	No	No	No		No	Yes	No	Yes	No	No	No	No	No	No	No
Handlingstint blue	Yes	Yes	No	No	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Nonionic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Tearing resistance	+++	++	+++	+++	++	+++	+	++	++	+	+++	++	++	+	+++	++	+++
Spontaneous tolerability	++	+++	+	++	+++	+++	+++	+++	++	+++	++	++	+++	+++	++	++	+
Wettability	+++	+++	++	++	++	+++	++	++	++	++	+++	+++	++	+++	+++	+++	++
Dry eye	++	++	+	+	+	++	+	++	++	++	++	++	+++	+++	++	++	++
Resistance to tear film containing lipids	+++	++	++	+	+	++	+	++	+	+	+++	++	++	+	+++	++	+++

* ISO 9913-1, Unit X10⁻¹¹ (cm²/sec) [mIO₂/(ml x mmHg)]

Care products For all materials listed at Appenzeller Kontaktlinsen, all care products for soft contact lenses available on the market can be used. Appenzeller Kontaktlinsen AG recommend hydrogen peroxide systems combined with weekly protein removal for soft contact lenses. In case of poor wettability due to tear conditions, we recommend the additional use of an alcohol-based cleaner (Appenzeller Cleaner).

SH 74 - Care products Hydrogen peroxide systems cannot be used for contact lenses made in SH-74 material, as they cause parameter changes. Instead, we recommend the use of a multipurpose solution.

Rigid gas permeable contact lenses

+++ Very good ++ Good + Sufficient - Not recommendable	Optimum Classic	Optimum Comfort	Optimum Extra	Optimum Extreme	Optimum Infinite	Boston IV	Boston ES	Boston Equalens	Bosteon EO	Boaton XO	Visaflex	PMMA	TLM
Composition	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI	MMA	MMA + SI + F
Dk-Value*	26	65	100	125	180	19	18	47	58	100	18	0-0.5	
Refractive index	1.450	1.441	1.431	1.432	1.438	1.469	1.443	1.438	1.429	1.415	1.492	1.490	1.45
Specific gravity (g/cm³)	1.190	1.178	1.160	1.150	1.200	1.100	1.220	1.190	1.230	1.270	1.120	1.180	
Wetting angle (°)	12***	6***	3***	6***		17**	52**	30**	49**	49**	25**	27**	
Surface hardness (Shore)	83	79	75	77	81	84	85	82	83	81	86	90	
UV- filter	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	
Tints	Blue	Aqua Blue Green Brown	White Aqua Blue Green	Aqua Blue Green Red Violet	White Aqua Blue	Blue	Aqua Blue Green	Blue	Aqua Blue Green	Aqua Blue Green Red Violet	Blue Green	White Grey	Red Violet
Resistance to tear film containing proteins	++	++	++	++	++	+	++	++	++	+++	+	+++	++
Resistance to tear film containing lipids	++	++	++	++	++	+++	++	++	+	+	+++	+++	+
Breaking resistance	+++	++	+	+	+	+++	+++	++	+++	++	+++	+++	++
Parameter stability	++	+	+	+	+	+++	+++	++	++	++	+++	+++	++
Overnight wearing (Ortho-K)	-	-	+	+	+	_	-	-	_	+	_	_	-

* ISO 9913-1, Unit X10⁻¹¹ (cm²/sec) [mlO₂/(ml x mmHg)] ** Bubble cap method *** Manufacturer indications

TLM is our trial lens material and cannot be sold

appenzeller () kontaktlinsen® passt.



COMFORT AND SAFETY

passt.

Our recommendation for the care regime of individual soft and rigid gas permeable contact lenses:

Individual products or sets. Compiled to your wishes.

1. Cleaning Daily

2. Rinsing Daily

Appenzeller Kontaktlinsen® Cleaner

Alcohol-based cleaner

For daily care of rigid gas-permeable contact lenses (also GP-plasmacoated) and soft contact lenses.

Appenzeller Kontaktlinsen® Saline

Saline as inserting solution

For all types of contact lenses - except scleral lenses - and for rinsing of soft and rigid gas-permeable contact lenses. Both after cleaning the lens and before putting the lens on the eye.

Contact lenses are not just a product. Contact lenses are a process that begins with your consultation. And continues after a successful fitting. Because contact lenses need to be inserted and removed. And because they need to be cleaned and stored. That's why we don't just supply you with contact lenses made to order, but also with knowhow made to order. This includes our Professional Service, which is there for you in word and action. It also includes care products and accessories that give your patients the greatest possible feeling of comfort, health and safety.

Clean and rinse, disinfect and store : This is the sequence. And accordingly, we offer you products that are precisely matched to each other in exactly the combination you want. Put together nicely as a set wrapped in thin transparent film, which can be removed without scissors.

Combination example:

- 1x Cleaner plus 1x Saline plus 1x Peroxid plus 1x Enzyme
- 1x Cleaner plus 1x Saline plus 1x All-in-One Soft/RGP

See also brochure Appenzeller Kontaktlinsen Comfort and safety







3. Disinfection and storage Daily

Appenzeller Kontaktlinsen® Peroxyd

Disinfection and neutralisation in 1 hour

The disinfection and neutralisation can be carried out very simply, quickly and a 100% efficiently. Appenzeller Kontaktlinsen make it possible with this peroxide system. For conventional soft lenses, disposable lenses and rigid gas-permeable lenses (RGP)

Appenzeller Kontaktlinsen® All-in-One Soft

Disinfectant

For all those who do not opt for the peroxide system and its unusually rapid effect (see column on the left): All-in-One Soft – the multipurpose solution with sodium hyaluronate for longer effect, longer wearing time, longer feeling of comfort.

Appenzeller Kontaktlinsen® Enzyme

4. Protein removal

Once a week

Intensive cleaning

Protein deposits build up on the lens every day. In addition to the daily neutralisation of the lenses, a weekly protein removal removing is needed when using the peroxide system.







 \bigcirc

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10 Reasons Why to choose Appenzeller Kontaktlinsen

ightarrow Fitting success

We do everything we can to understand your wishes and ideas. So that your fitting is a complete success – for you and your patients.

→ Technological advantage

We put a great deal of effort into Research & Development to ensure that our contact lenses always meet the latest technoloaical possibilities.

ightarrow Swiss made

We demand the highest standards of the manufacturing quality of our contact lenses, so that they match your equally high expectations of Swiss made.

→ Reproducibility

We help you keeping your patients satisfied by ensuring that you receive the same lens as before with your repeat order.

\rightarrow Open ears

Our Professional Services team advises you competently, personally and patiently. They will answer every question and make sure you get the right contact lens in any case.

ightarrow Custom made

Each contact lens is individually made to order for you, so that it matches your specifications a 100%.

\rightarrow Right to exchange

We send out our contact lenses with or without the right to exchange, so you can make the best choice for your needs. The option "with right to exchange" gives you financial security: you can order a different lens later. If you do so within the exchange period, you pay only a small excess. The date on the delivery note is decisive for the deadline.

- Soft contact lenses
- *i*-SUFT 3-monthly lenses: I month • 6-monthly lenses: 2 months
- •12-monthly lenses: 3 months
- Rigid gas-permeable lenses: 3 months

→ Price advantage

We offer you favourable terms of payment. You can get extra benefits f you pay in advance. We will happily et you know about the current conditions on request.

Guarantee scheme

We take responsibility for our work so you can rely on us and our contact lenses with guarantee. Guarantee period:

- *i*-SOFT 3-monthly lenses: 1 month
- 12 monthly longer: 3 months

Broken lens: Return us the lens within the guarantee period and we will replace it. We will credit it on your next invoice accordingly. The date on the delivery note is decisive for the guarantee period.

→ Long-term visior

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