

Close reading binocularly



POWER RANGE:

ML Binova Easy +1.5 to +8 D

ML Binova Pro +3.0 to +16 D

ML Binova RX up to +20 D cyl -10 D

VISUAL FIELD: >70°

TOTAL WEIGHT: 13 – 45 grams

WORKING DISTANCE:
70 – 10 cm

Today's conditions when you read differs quite dramatically compared to the conditions only a few years ago. Our primary source of information are often smartphones, tablets and computers today, which was very rare earlier.

ML Binova is designed to help people read more comfortably and relaxed. There are ML Binova glasses for all types of eyes; from people needing modest addition to people needing high addition due to visual impairment, or a need to see small details.

ML Binova is built around our PrismOptics, which reduces the convergence need when reading at close distance. ML Binova is also available with RelaxTint, which relaxes the eye and reduces the amount of harmful blue light reaching the eye. Also other tints such as ML Filter may be included.

FIVE FEATURES FOR BETTER PERFORMANCE

The ML Binova concept contains a wide range of frames and product categories. See below the five most interesting features.

1. WIDE POWER RANGE

ML Binova is available in standard powers from +1.5 D up to +16 D. It's also possible to order ML Binova with individual prescription. With high addition and short reading distance, cylinder power is often not important to correct. Even small differences between right and left eye are acceptable for most people. Therefore, standard solutions works fine also for cylinder powers or small differences between right and left eye.

2. PRISM OPTICS

High addition means reading at a short distance, the short distance means big convergence need, which might cause eye strain. That's why all ML Binova have a built in prism to reduce the convergence need.

For the lower standard powers, we assume that the patient is close to emmetrope and calculate the convergence prism based on the power. When the power increases, we assume that the patient is a little hyperope, see chart below. If the distance prescription differs a lot from this, ML Binova RX should be considered with a specified addition.

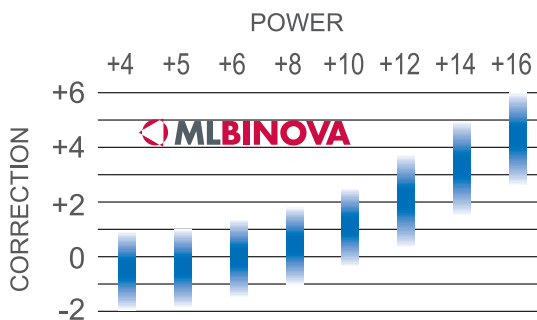


Chart 1 demonstrates the recommended correction for each power of ML Binova Easy and ML Binova Pro. At other distance corrections, ML Binova RX should be selected.

Because of the convergence prism in ML Binova, the wearer can use binocular vision even with short reading distances down to 10 cm. In table 1 and illustration 1, you can see how the concept works.

The pupillary distance is insignificant when ordering ML Binova. The reason is that the larger convergence need you have with a large pd is corrected with the larger base in prism you get from using the more temporal part of the lens. The opposite principle applies with a small pd.

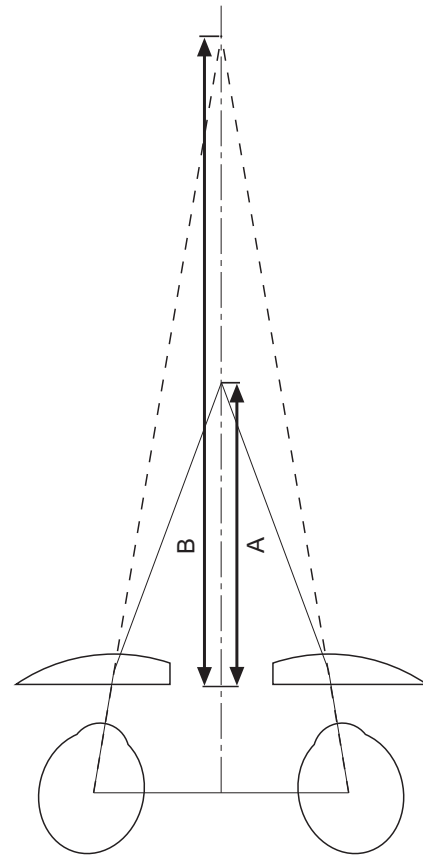


Illustration 1 shows the focusing distance (A) and the convergence distance (B).

Dioptres	Distance A	Distance B
+4	25.0 cm	35 cm
+5	20.0 cm	30 cm
+6	16.7 cm	25 cm
+8	12.5 cm	21 cm
+10	10.0 cm	18 cm

In table 1, example distances are shown.

3. FILTER TINT FOR BETTER COMFORT

Because of the new demands for the eye looking at close distance, sometimes a filter tint can be really useful.

- The difference in light level on a smartphone compared to the surroundings is often very big (for example, when reading at night). This is causing eye strain, which needs to be addressed.
- LED-screens expose your eyes to more harmful blue light than reading text on paper. The harmful blue light speeds up the ageing process of your eyes and you're more likely to develop eye diseases in the long run. A way to decrease the amount of blue light is needed.
- Blue light also affects your circadian rhythm by suppressing production of the sleep hormone melatonin. If using your smartphone late in the evening, you will likely find it harder to fall asleep and/or you might wake up more often during night, so reducing this light is essential.

It's always possible to add ML Filter tint for ML Binova RX. For ML Binova Easy, RelaxTint is always included.



4. ANTIREFLEX COATING

All ML Binova lenses are coated with our ML Prima or Multicoat. This increases the light transmission and enhances comfort.

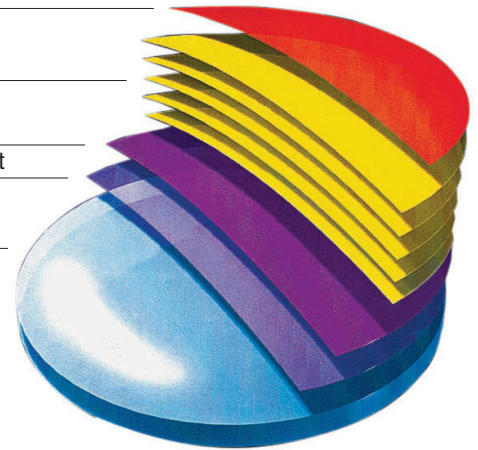
Hydrophobic Layer

AR Multilayer System

Adhesion Layer

Lacquering Treatment

Lens



5. HIGH QUALITY FRAMES

All frames in ML Binova are high quality frames developed for this purpose. Light weight, flexible temples and durable are common descriptions for all our frames.

THE DIFFERENT PRODUCT CATEGORIES

ML Binova consists of three different product categories, ML Binova Easy, ML Binova Pro and ML Binova RX. Read more about these on the following pages.

ML BINOVA EASY

ML Binova Easy is the entrance level within the ML Binova product group. It is suitable for all people who want a more relaxed reading experience. Since they are available in powers from +1.5 D up to +8.0 D, there is a model for everyone: From the person who just wants the best reading glasses available to a person with reduced vision or the one who wants to see really small details.

KEY FEATURES OF ML BINOVA EASY

- RelaxTint is always included. RelaxTint is a tint that reduces short wave blue light effectively.
- High quality frames. For the lower powers (+1.5 D to +3.5 D), ML Binova Rimless is used. For the higher powers (+4.0 D to +8.0 D), ML Binova Halv-11 is used. Both frames are light weight with flexible temples in a modern design in three different colours: Chili, Bronze and Frost.
- PrismOptics to ensure maximum comfort. This is of course more important for the higher powers but also for lower powers, the increased comfort is obvious.
- Multicoat is always included.



Rimless Bronze, Frost and Chili



Halv-11 Frost, Chili and Bronze

ITEM NUMBERS FOR ML BINOVA EASY

POWER RANGE:
+1.5 to +8 dioptres

VISUAL FIELD: >70°

TOTAL WEIGHT: 13 – 28 grams

WORKING DISTANCE:
70 – 12 cm

	Rimless		
	FROST	BRONZE	CHILI
+1,5	48401	48413	48407
+2,0	48402	48414	48408
+2,5	48403	48415	48409
+3,0	48404	48416	48410
+3,5	48405	48417	48411

	Halv-11		
	FROST	BRONZE	CHILI
+4	41110	41120	41130
+5	41111	41121	41131
+6	41112	41122	41132
+8	41113	41123	41133

ML BINOVA PRO

ML Binova Pro is the premium level for standardized products. Available in a wide range of frames and a wide power range from +3.0 D to +16.0 D. ML Prima is always included.

For images of the different frames, see page 7 in this brochure.

POWER RANGE:
+3.0 to +16.0 D

VISUAL FIELD: >70°

TOTAL WEIGHT: 26 – 45 grams

WORKING DISTANCE:
33 – 8 cm

ARTICLE NUMBERS FOR ML BINOVA PRO

	Halv-12		Halv-14		Halv-13	Halv-3	Halv-15		Halv-16
	BROWN	GREY	RED	BLUE	METAL	RED	GREY	RED	BLACK
+3,0	41231	41431	41531	41631	41331	43130	41831	41731	41931
+3,5	41235	41435	41535	41635	41335	43160	41835	41735	41935
+4	41241	41441	41541	41641	41341	44140	41841	41741	41944
+5	41251	41451	41551	41651	41351	44150	41851	41751	41951
+6	41261	41461	41561	41661	41361	44160	41861	41761	41961
+8	41281	41481	41581	41681	41381	44180	41881	41781	41981
+10	41201	41401	41501	41601	41301	44400	41801	41701	41901
+12	41221	41421	41521	41621	41321	44120	41821	41721	41921
+14	41211	41411	41511	41611	41311	44110	41811	41711	41911
+16	41291	41491	41591	41691	41391	44190	41891	41791	41991

ML BINOVA PRO BIFO

ML Binova Pro Bifo is a bifocal version of ML Binova. It enables binocular reading at shorter distances with two different additions. The upper section allows wearers to look at larger text and find their way around the page, and the lower section is used for reading smaller print.

The prisms in the different sections are accurately aligned to ensure greater prism in the lower section to compensate for the shorter reading distance.

The powers for ML Binova Pro Bifo standard are +3/+6 or +5/+8 in a Halv-15 frame. ML Binova Bifo can also be custom-made to individual requirements.

POWER RANGE:
+3/+6 D or +5/+8 D

VISUAL FIELD: >70°

TOTAL WEIGHT: 26 – 34 grams

WORKING DISTANCE:
33 – 12 cm

ARTICLE NUMBERS FOR ML BINOVA PRO BIFO

	Halv-15	
	GREY	RED
+3/+6	42837	42737
+5/+8	42859	42759

ML BINOVA RX

ML Binova RX is the category if the patient need something outside the standardized options presented on the previous pages. Examples of cases where you might need ML Binova RX:

- When a large cylinder power is needed. Normally, the higher the addition, cylinder power have less effect on vision. But if you need to incorporate cylinder, ML Binova RX is needed.
- If anisometropia is present but there is still a need for binocular use, ML Binova RX makes it possible.
- If the patient have a distance refraction that is different from what is shown in the chart on page 2 in this documentation. If ordered a standard solution, the prismatic power in the lens might be very wrong compared to the reading distance.
- If the patient need to add a filter tint in their ML Binova glasses.

ORDERING OF ML BINOVA RX

The best way to order ML Binova RX is to enter the distance refraction and addition. This way we know exactly how much prism there should be in the lenses based on the addition. Example: If you have a distance refraction of R/L -5.0 and an addition of +10.0 D, we will produce lenses with powers +5.0 D with a prismatic effect adjusted for 10 cm. If a standard solution is ordered with +5.0 D, then the prismatic effect will be adjusted for 20 cm, which probably will be too little to provide maximum comfort.

POWER RANGE:

Up to +20.0 D cyl -10.0

VISUAL FIELD: >70°

TOTAL WEIGHT: 26 – 45 grams

WORKING DISTANCE:

33 – 12 centimetres

ARTICLE NUMBERS FOR ML BINOVA RX - WITH ML PRIMA

	Halv-11			Halv-12	Halv-14			Halv-13	Halv-3	Halv-15		Halv-16
	FROST	BRONZE	CHILI	BROWN	GREY	RED	BLUE	METAL	RED	GREY	RED	BLACK
Up to +8 Cyl -10	42121	42141	42161	42221	42421	42521	42621	42321	41353	42821	42721	42921
Up to +12 Cyl -10	-	-	-	42231	42431	42531	42631	42331	41354	42831	42731	42931
Up to +20 Cyl -10	-	-	-	42241	42441	42541	42641	42341	41355	42841	42741	42941

ML BINOVA RX BIFO

The difference between upper and lower section of the lens is always +3.0 D. The upper section is available up to a total power of +6.0 D

Up to +6 Cyl -3, Add +3,0

Halv-15	
GREY	RED
42864	42764

ARTICLE NUMBERS FOR ML BINOVA RX - WITHOUT ML PRIMA

	Halv-11			Halv-12	Halv-14			Halv-13	Halv-3	Halv-15		Halv-16
	FROST	BRONZE	CHILI	BROWN	GREY	RED	BLUE	METAL	RED	GREY	RED	BLACK
Up to +8 Cyl -10	42120	42140	42160	42220	42420	42520	42620	42320	41350	42820	42720	42920
Up to +12 Cyl -10	-	-	-	42230	42430	42530	42630	42330	41351	42830	42730	42930
Up to +20 Cyl -10	-	-	-	42240	42440	42540	42640	42340	41352	42840	42740	42940

ML BINOVA RX BIFO

The difference between upper and lower section of the lens is always +3.0 D. The upper section is available up to a total power of +6.0 D

Up to +6 Cyl -3, Add +3,0

Halv-15	
GREY	RED
42863	42763

ML BINOVA FRAMES

Halv-11 Frost



Halv-11 Bronze



Halv-11 Chili



Halv-12 Brown



Halv-3 Red



Halv-13 Metal



Halv-14 Grey



Halv-14 Red



Halv-14 Blue



Halv-15 Red



Halv-15 Grey



Halv-16 Black

IT ALL STARTED IN A GARAGE

Multilens is a world-unique specialist company within the optical sector. We tailor optical solutions for every need. From the beginning, our only goal has been to focus on the eyes, vision and visual function.

Multilens was set up in 1983 by Lars Hellström, who after 30 years in the optical business decided to focus on the most exciting challenge: developing special optic solutions that could solve difficult optical problems. Together with opticians, optometrists, eye care practitioners and eye doctors he created innovative special optics. Within a short space of time the whole Hellström family was committed and Multilens have since become leaders in low vision and special optics, helping thousands to enjoy a better visual experience.

