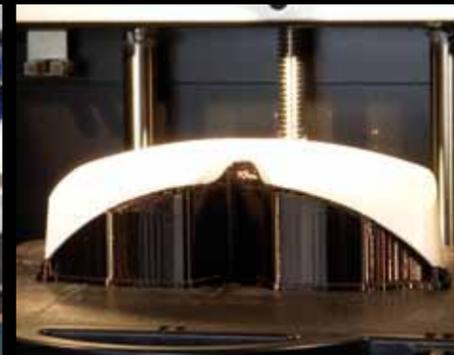




# LOUPES

big is better

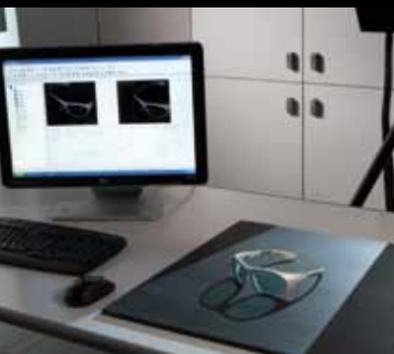
 **UNIVET**<sup>®</sup>  
OPTICAL TECHNOLOGIES



Univet is specialized in **the design and manufacture of industrial, medical, and laser safety eyewear** together with **magnification systems devised for the surgical and dental sector.**

**Univet is the only Company in the world that can offer complete lines of magnification systems and safety eyewear** in so many diversified sectors: the interaction between these sectors facilitates the development of products characterized by innovative and original solutions.

Innovative, up-to-date, and internationally recognized, Univet is a Company in constant growth; from its headquarter of over 3,000 m<sup>2</sup> in Northern Italy it exports its products to more than forty countries all over the world, with an export quota equaling 50% of its annual sales.



Univet is certified ISO 9001: 2008.



**MAGNIFICATION:** it is the ratio between the size of the image observed through the telescope and the actual size of the object.

**WORKING DISTANCE:** the working distance is the distance from the eyes to the work surface.

**FIELD OF VISION:** the field of vision is the entire area visible through an optical system. The wider the field of vision, the easier the eye will move in a natural way.

**DEPTH OF FIELD:** the depth of field is the distance where the optical system is to remain in focus. All things being equal, the lower is the magnification power and the greater will be the depth of field.

**DECLINATION ANGLE:** it is the angle where the binoculars are in respect to a horizontal line.

**TTL**

In the TTL (Through-The-Lens ) system a telescope is inserted into the lens of eyeglasses so that the eyepiece is at an optimal distance from the pupil without the intrusion of other elements.

**FLIP-UP**

The Flip-Up System is a binocular vision device supported by an articulated arm attached to the glasses that allows individual personalization of the user's parameters for their work.

**TTL**

- High customization
- Optimal weight balance
- Ready to use
- Improved depth of field
- It can be integrated with corrective lenses
- Lighter weight

Must be returned to the manufacturer for modifications

**FLIP-UP**

- Usable by several users
- Adjustable position of the binoculars
- Can be worn over prescription glasses
- Quick delivery of the system
- Easy to replace
- Larger blind spot

**GALILEAN OPTICAL SYSTEM**

The design of the Galilean system usually consists of a double lens (a positive objective and an eyepiece lens), making it discreet and lightweight.

**PRISMATIC OPTICAL SYSTEM**

The Prismatic system has a high optical quality, consists of a positive objective, a pair of prisms and still a positive eyepiece lens.

**GALILEAN**

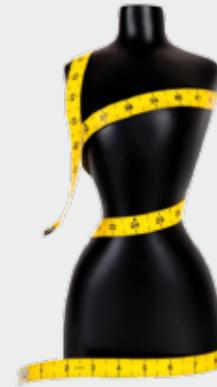
- Lower magnification
- Lighter system
- Immediate adaptability
- Large depth of field
- Increased brightness of the system
- Cheaper

**PRISMATIC**

- More complex optical system
- High resolution
- Further enlargements
- Absence of optical distortion
- Less depth of field
- Weighs more

# UNIVET MAGNIFYING SYSTEMS.

## Whatever your profession, whatever your need



**TTL. Totally customized. As your eyes are unique.**

All parameters such as interpupillary distance, declination angle and working distance are unique to each professional. Univet accurately combines these variables in the creation of binoculars for every single customer.



**FLIP-UP. Easy and versatile. A solution for any demand.**

Multiple adjustments and ease of use for a universal and intuitive product. A single device that provides precision and comfort to any user.



**QUALITY OF WORK. More precision in your operations. Because big is better.**

Greater precision and accuracy during treatments observing details that are not visible to the naked eye. More effective operations, professionalism and customer service for an improved quality of work.



**ERGONOMICS. Improve your position. For working in comfort.**

Postural relief of pain in the muscles and spine, concrete reduced eyestrain. A new concept of ergonomics to work in total comfort.



# pro

## MAGNIFICATION PRO™

A unique optical system that achieves superior performance in terms of field of vision and depth of field. The Galilean TTL devices support the new optical design that combines improved image quality with efficient product engineering. Superior performance and unparalleled visual comfort: the eye adapts easily to the view through the magnifying system due to enhanced optical properties.



## 100% MADE IN ITALY

Expertise and passion are at the base of each product from design to production; extensive experience in optical technologies becomes tangible through care and innovative devices. An Italian touch that shines through from the design and it is developed through constant attention to detail throughout the production chain. The in-depth study of materials and forms is reflected in the sophisticated and functional models that combine the perfect fit with typical elegance Made in Italy.

# EVO™

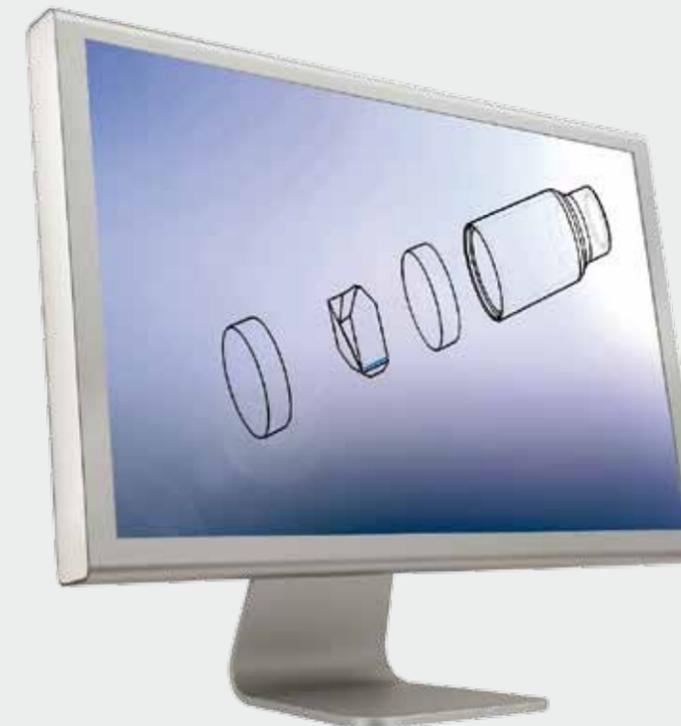
## FLIP-UP EVO™

Innovative materials and design solutions featuring a cutting-edge high-tech system. Intuitive and versatile, Flip-Up EVO™ provides an exceptional range of adjustments for the best fit of each user. Independent adjustment of the interpupillary distance, adjustment of the vertical axis and the declination angle in one movement, the locking mechanism Fliplock™ to immediately restore the custom configuration of the system: Univet presents the evolution of the Flip-Up.



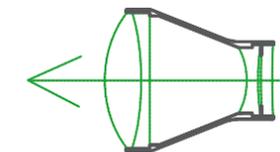
## OPTICAL DESIGNS BY UNIVET

Technology takes form in optical designs designed and developed exclusively by Univet. Achromatic lenses and a special high-tech anti-reflective treatment offer crisp, clear pictures without distortion. A constant and superior quality due to qualified personnel and technologically advanced equipment for the in-line control of binocular devices' assembly. The Galilean and Prismatic systems are available in TTL or Flip-Up version, making a complete array of solutions to implement the best performance in every job.



# TTL

## GALILEAN TELESCOPES THROUGH THE LENS



A magnifying system lightweight and personalized, an incredibly wide and bright field of vision. The Galilean TTL model provides high-quality images thanks to the unique optical design PRO™ and the achromatic lenses. Fully customizable on user's parameters, the device has a wide range of magnification and working distances.

High definition optics, anti-glare coating for clear images with bright colors

Possibility to install corrective lenses according to medical prescription

Magnification PRO™ for width and depth of field with no comparison

Italian design for frames to suit every style

MODEL	MAGNIFICATION	WORKING DISTANCE [MM]	FIELD OF VISION [MM]	DEPTH OF FIELD [MM]
TGU20	<b>2,0X pro</b> 	300	105	138
		350	120	169
		400	135	195
		450	150	220
		500	165	241
TGU25	<b>2,5X pro</b> 	300	90	78
		350	104	105
		400	122	135
		450	135	160
		500	148	200
TGU30	<b>3,0X pro</b> 	300	59	52
		350	68	73
		400	82	90
		450	89	110
		500	98	131
TGU35	<b>3,5X</b> 	300	45	42
		350	50	57
		400	55	73
		450	62	88
		500	68	105

### Models and colors available



UNIVET-01 ■ 59g

- Frame sturdy and comfortable, with classic lines
- Adjustable nose piece, flex hinges
- Adjustable temple tips made of hypoallergenic rubber
- Possibility to install corrective lenses (caliber 58 □ 16)
- Side shields supplied



TECHNE ■ 46g NEW

- Sporty and wraparound design for a perfect fit
- Metal insert on the front for implemented resistance
- Adjustable nose piece
- Integrated coverage of the lateral areas



ASH ■ 40g NEW

- Elegant and essential with carbon fiber temples
  - Adjustable nose piece
  - Possibility to install corrective lenses
  - Side shields supplied
  - Available in two sizes
- S: 53 □ 17 
- L: 55 □ 17 

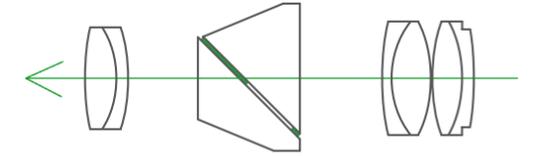


IRIS ■ 44g

- Stylish frame with refined finish
  - Adjustable nose piece
  - Possibility to install corrective lenses
  - Side shields supplied
  - Available in two sizes
- S: 51 □ 18 
- L: 54 □ 18 

# TTL

## PRISMATIC TELESCOPES THROUGH THE LENS



**High magnification to observe even the smallest detail in the surgical field, perfect high-resolution images.** The high quality of the optics creates a sharp, distortion-free vision and avoids eye strain during long procedures. Full customization according to the user's parameters makes the Prismatic TTL from Univet unique help and irreplaceable for every professional.



Excellent depth of field for stereoscopic vision

High magnification and various working distances

Absence of optical distortion, even in remote areas

A wide range of frames designed and refined for optimum weight distribution

MODEL	MAGNIFICATION	WORKING DISTANCE [MM]	FIELD OF VISION [MM]	DEPTH OF FIELD [MM]
TKU30	<b>3,0X</b>	300	58	42
		350	70	63
		400	80	89
		450	94	96
		500	107	123
TKU35	<b>3,5X</b>	300	57	38
		350	71	58
		400	85,5	83
		450	89	90
		500	102	115
TKU45	<b>4,5X</b>	300	44,5	25
		350	57	38
		400	63	47
		450	74	65
		500	85,5	85

### Models and colors available



UNIVET-01 **72g**

- Frame sturdy and comfortable, with classic lines
- Adjustable nose piece, flex hinges
- Adjustable temple tips made of hypoallergenic rubber
- Possibility to install corrective lenses (caliber 58 □ 16)
- Side shields supplied



IRIS **57g**

- Stylish frame with refined finish
- Adjustable nose piece
- Side shields supplied
- Possibility to install corrective lenses (caliber 51 □ 18) ● ●

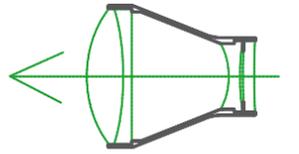


ASH **53g** NEW

- Elegant and essential with carbon fiber temples
- Adjustable nose piece
- Possibility to install corrective lenses
- Side shields supplied
- Available in two sizes
- S: 53 □ 17 ● ●
- L: 55 □ 17 ● ●

# FLIP-UP EVO™

## GALILEAN FLIP-UP



MODEL	MAGNIFICATION	WORKING DISTANCE [MM]	FIELD OF VISION [MM]	DEPTH OF FIELD [MM]
MGU25	2,5X 	300	54	52
		350	62	72
		400	75	93
		450	81	111
		500	89	132

### Models and colors available



FLIP-UP EVO™ **89g**

- A mix of high-tech materials for an ultra-lightweight system
- 100% Made in Italy
- New locking system Fliplock™
- Interpupillary distance adjustable independently
- Can be worn over prescription eyewear
- Interchangeable frontal sweatband



**The evolution of the Flip-Up system. The evolutions of an innovative Flip-Up.** A mix of technopolymers and special alloys of aluminium and magnesium in a structure that combines flexibility with lightness and strength. An eye-catching design made of only 89 grams, designed by Univet for maximum wearability. The innovative mechanism Fliplock™ blocks the optical structure ensuring the maintenance of the position and the opportunity to work with any LED light source always on board.



High definition, waterproof optics independently adjustable

Protective clear lens, also available against laser radiation or UV525, can be worn over prescription glasses

Extraordinary motion control and total freedom in every use

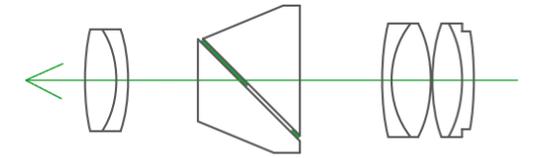
The magnification has a high optical quality, ensuring broad vision and bright colors

# FLIP-UP AIR-X™

## PRISMATIC FLIP-UP



An innovative design for a perfectly balanced system with high-definition optics for bright, three-dimensional images. Simple and intuitive, Prismatic Air-X™ is a device of extraordinary ergonomics, designed for optimal weight distribution. The stable and comfortable fit, the possibility of wearing it over prescription eyeglasses and the higher magnification improve quality and effectiveness of interventions.



MODEL	MAGNIFICATION	WORKING DISTANCE [MM]	FIELD OF VISION [MM]	DEPTH OF FIELD [MM]
MKU35	<b>3,5X</b> 	300	58	36
		350	72	55
		400	78	78
		450	91	84
		500	104	102
MKU45	<b>4,5X</b> 	300	44	25
		350	56,5	32
		400	61	43
		450	72	59
		500	83	79
MKU60	<b>6,0X</b> 	300	36	20
		350	47,2	27
		400	52,4	38

### Models and colors available



AIR-X™ PRISMATIC ■ 119g

- Sporty and enveloping line
- A mix of high-tech materials for an ultra-lightweight design
- 100% Made in Italy
- Adjustable nose piece, made of hypoallergenic rubber
- Can be worn over prescription eyewear
- Interchangeable frontal sweatband



Wide variety of working distances for an optimal position

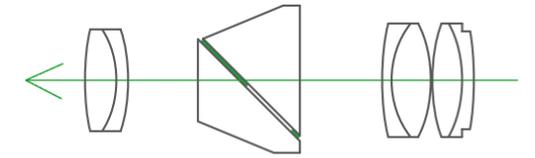
Protective clear lens, also available against laser radiation or UV525

Easy adjustment of the vertical axis, declination angle and interpupillary distance

New 6.0x magnification

# FLIP-UP ON HEADBAND

**PRISMATIC** FLIP-UP



A wide range of adjustments in a simple and versatile device, a unique optical design for sharp images without distortion. Comfortable and flexible, the Univet helmet adapts easily to user requirements by distributing the weight evenly over the entire head. The high-definition optics allow magnification up to 6.0x, the optimal stability of the binocular system is guaranteed by the special ergonomic design, a result of careful experimentation.



MODEL	MAGNIFICATION	WORKING DISTANCE [MM]	FIELD OF VISION [MM]	DEPTH OF FIELD [MM]
CKU35	<b>3,5X</b> 	300	58	36
		350	72	55
		400	78	78
		450	91	84
		500	104	102
CKU45	<b>4,5X</b> 	300	44	25
		350	56,5	32
		400	61	43
		450	72	59
		500	83	79
CKU60	<b>6,0X</b> 	300	36	20
		350	47,2	27
		400	52,4	38

## Models and colors available



### HELMET

- Interchangeable sweatband sponges
- Adjustment of the vertical axis, declination angle and interpupillary distance
- Sterilized knobs
- 100% Made in Italy
- Can be worn over prescription eyewear



High definition optics, anti-glare coating for brilliant and stereoscopic images

New 6.0x magnification

Extremely versatile and easy to adjust in seconds

Clear vision, comfortable working conditions and intuitive operation

# LED ILLUMINATION SYSTEMS

**Portable and compact light sources, high technology to display every detail.** Only a good magnifying system combined with proper lighting can help reduce eye fatigue and postural pain. All of Univet's systems support LED devices in coaxial position for a homogeneous view without shadows. All three products proposed offer different technical characteristics to meet any line of work.



Each LED light source is compatible with the full range Univet

High color temperature for authentic color rendering

Practical and functional, leave you with a high ease of use

The battery power system provides maximum portability



## | UNIVET LED

- Weight: 50 g
- Luminous Intensity: 28000 LUX at 350 mm
- Battery life: 2.5 hours at full power
- Color temperature: 6000 K
- Spot size: 180 mm at 350 mm distance



## | UNIVET LITE LED™

- Weight: 6 g
- Luminous Intensity: 40000 at LUX 350 mm
- Battery life: 7 hours at full power
- Color temperature: 6000 K
- Spot size: 74 mm at 350 mm distance



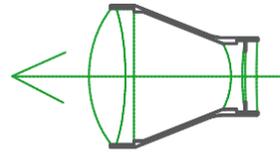
## | POV™

- Weight: 100 g
- Luminous Intensity: 20200 LUX at 350 mm
- Battery life: 8 hours at maximum power
- Color temperature: 6300 K
- Spot size: 74 mm at 350 mm distance



# UNIVET QUICK LOUPES

## 546 GALILEAN STANDARD TTL



Thanks to the distinctive features of Univet's Galilean optical system, which allows immediate access, you can use the TTL binoculars with a default interpupillary distance. This product is ideal for those approaches for the first time the use of a magnifying system while getting all the advantages and comfort of a TTL device.



The following table lists the range of acceptability of the product.

S (56) → 54/58

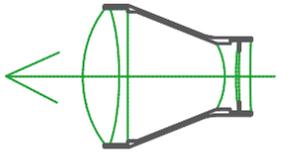
M (60) → 58/62

L (64) → 62/66

Measurements show the interpupillary distance to the work distance (mm).

MODEL	MAGNIFICATION	WORKING DISTANCE [MM]	FIELD OF VISION [MM]	DEPTH OF FIELD [MM]
TGU20	<b>2.0X pro</b> 	300	105	138
		350	120	169
		400	135	195
		450	150	220
		500	165	241

## AIR-X™ GALILEAN FLIP-UP



The combination of an ergonomic frame combined with the simplicity of Univet's Galilean binocular system gives the new Air-X™ maximum flexibility of use at any working condition. The 2.5X magnification is ideal for users who need to maintain a higher field of vision and depth of field without having to sacrifice the optimal image quality.



MODEL	MAGNIFICATION	WORKING DISTANCE [MM]	FIELD OF VISION [MM]	DEPTH OF FIELD [MM]
MGU25	<b>2.5X</b> 	300	54	52
		350	62	72
		400	75	93
		450	81	111
		500	89	132

# LASER BINOCULARS

Magnifying systems of superior quality combined with laser filters to ensure optimal performance and protection for operators in a single product entirely made in Italy. The Prismatic and Galilean Air-X™ devices and the innovative Flip-Up EVO™ can be easily combined with interchangeable laser protective lenses: these filters provide maximum protection from the most common laser wavelengths used in the medical and dental sectors.



Galilean system  
magnification 2.5x



Prismatic system  
magnification 3.5x, 4.5x, 6.0x

# ACCESSORIES



Microfiber cloth



Anti-fog cleaning lens liquid



Elastic strap adjuster

Model for AIR-X, EVO, TECHNE	KZ15031,0A
Model for ASH	KZ16031,0A
Model for UNIVET-01, IRIS	KZ02631.00



Side shields



Nose pieces



Protective lens



Sterilized knobs



Interchangeable sweatband sponges

Model for AIR-X, EVO	KZ16131.0A
Model for HEADBAND	KZ02022.00



Lenses

# UNIVET PRODUCES QUALITY

## Join the italian style

From design to production, Univet ensures consistent and proven quality. Top quality materials and trained personnel contribute to the creation of products entirely made in Italy that combine performance and aesthetics. Research for cutting edge materials, innovative solutions and the total control of production makes each magnifying system unique as for comfort and technology.



### AT YOUR SERVICE

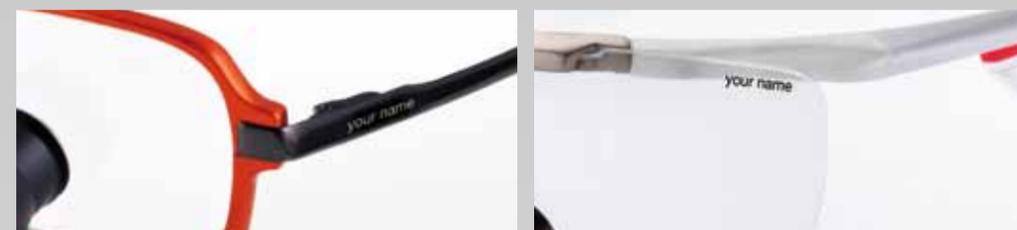
The department of internal production, the dedicated customer service and a distribution network ensures speed and flexibility in meeting customer demands. The maintenance and repair services, the assembly of binoculars with corrective lenses, the customization of products and packaging allow to offer high-tech devices seamlessly adapted to the needs of each individual user.

## UNIVET CUSTOMER SERVICE



### PERSONALIZATION

All of Univet's TTL models are custom made following accurately the parameters of the user, from the interpupillary distance to the addition of corrective lenses. To make them even more unique we offer a customization service of the product and the packaging by pad printing or laser marking.



### SERVICE MAINTENANCE

Univet provides a maintenance service of your magnifying systems to restore and maintain optimal quality performance over time.



### WARRANTY

All of Univet's magnifying systems are covered by a three-year warranty.

FOR INFORMATION VISIT THE WEBSITE [WWW.UNIVET.IT](http://WWW.UNIVET.IT)  
OR CONTACT YOUR LOCAL DEALER.

# COMMUNICATION



Safety Eyewear



Laser Safety Eyewear



Medical Safety Eyewear



Loupes

## SAFETY. PLANNING YOUR PROTECTION

The thorough ergonomic study of frames is combined with extreme care about design for a fresh conception of comfort and style. An Italian touch of class to protect yourself.

## LASER. INNOVATION FOR SAFETY

Univet Optical Technologies: technology intended as innovation and also as continuous research towards solutions that can meet the clients' needs and taste.

## MEDICAL. BE WELCOME TO WORK

Each single model is designed to offer the best possible protection and vetted in its aesthetic and fitness to allow its operator to work in complete harmony with its eyewear.

## LOUPES. BIG IS BETTER

Entirely Made in Italy TTL and Flip-Up magnification systems for any operator's need. High-tech optical systems offering precision and comfort in every operation.



Quick guide



Flip-up EVO™



Safety New Products



Dental protection



SoftPad® Collection



Kit beauty magnifier

## • Web site - www.univet.it



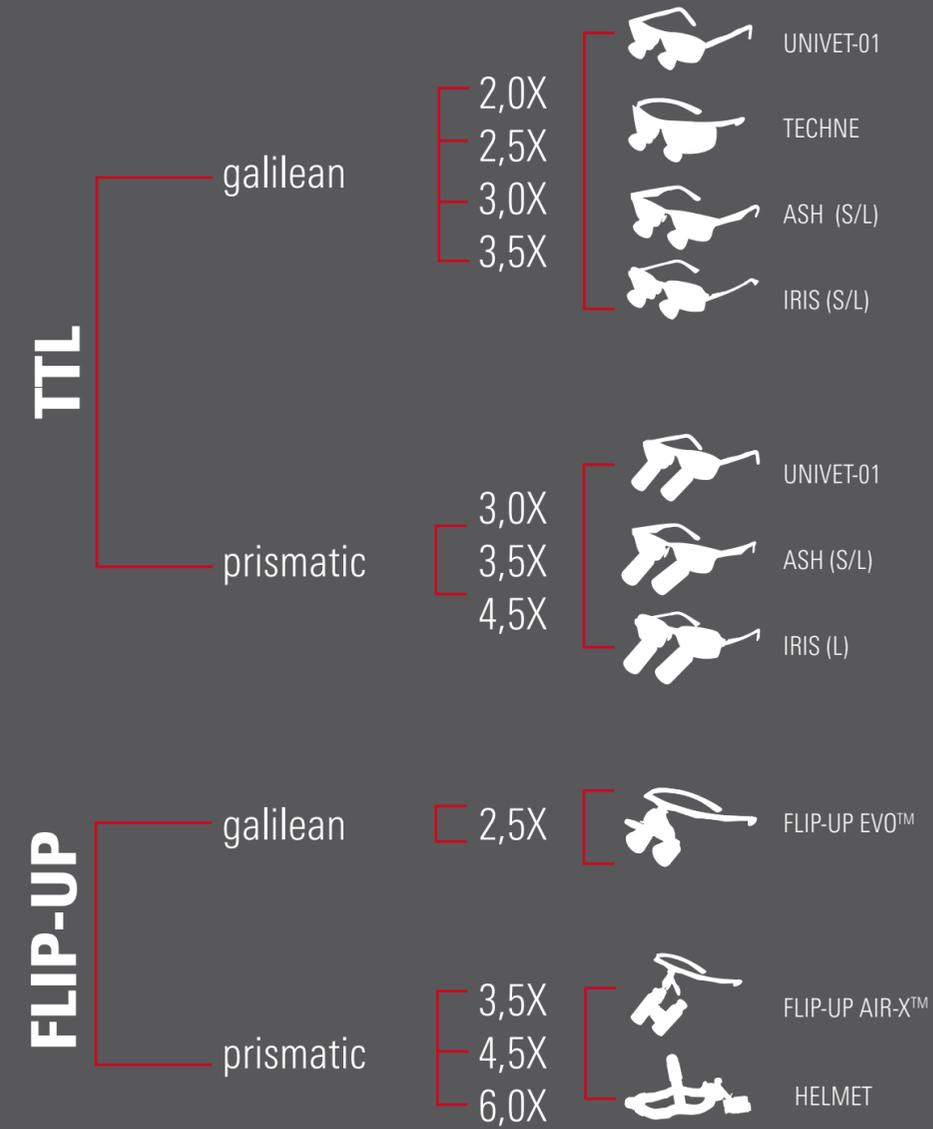
## • Display



cod. 2314000  
Univet corner  
6 positions for eyewear, 2 for goggle



cod. 2315000  
Univet display  
4 positions for eyewear, 1 for goggle



**MEDICAL**       **DENTAL**

Order number \_\_\_\_\_ Job Number \_\_\_\_\_ Date \_\_\_\_\_

Customer \_\_\_\_\_ Customer N° order \_\_\_\_\_

Address/Street \_\_\_\_\_ Number \_\_\_\_\_

Postal Code \_\_\_\_\_ Town \_\_\_\_\_ County \_\_\_\_\_ Country \_\_\_\_\_

User's name \_\_\_\_\_ User's age \_\_\_\_\_ User's height \_\_\_\_\_

Customization max. 17 letters \_\_\_\_\_ Note \_\_\_\_\_

The user wears prescription glasses \_\_\_\_\_ The user wears contact lenses \_\_\_\_\_

**YES**, please attach the prescription form or compile the chart here below

**NO**

**YES**       **NO**

RIGHT EYE			LEFT EYE			LENS SPECTACLES	
Sphere	Cylinder	Axis	Sphere	Cylinder	Axis	Neutral	_____
_____ distance			_____			Distance correction	_____
_____ intermediate			_____			Close-up Correction	_____
_____ close-up			_____			Intermediate correction	_____
_____ addition			_____			Bifocal	_____
<input type="radio"/> <b>TABO</b>							

Model     **TTL**     **F/U**      Declination angle     **12°**     **18°**     **22°**

Type     **GALILEAN**     **PRISMATIC**      Magnification \_\_\_\_\_ X Working distance \_\_\_\_\_

	RIGHT EYE	LEFT EYE	TOTAL		
			1° meas.	2° meas.	3° meas.
Interpupillary distance infinte viewing	_____	_____	_____	_____	_____
Interpupillary distance working distance viewing	_____	_____	_____	_____	_____

Frames for TTL

**UNIVET-01**       Gray

**TECHNE**       White/Red

**IRIS S**       Black       Pink

**IRIS L**       Black       Orange

**ASH S**       Gray       Black/Red

**ASH L**       Gray       Black/Red

Frames for FLIP-UP

**EVO galileian**

**AIR-X galileian**

**AIR-X prismatic**

**HEADBAND prismatic**

PICTURE NAME \_\_\_\_\_



[www.univet.it](http://www.univet.it)

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Industrial Safety Eyewear



Laser Safety Eyewear



Loupes & medical safety eyewear

Quick link for more information



<http://www.univet.it/en/landing/catalogo-binocolo-2011.html>