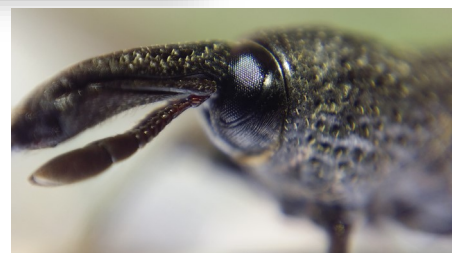
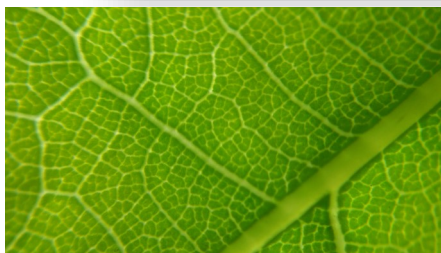
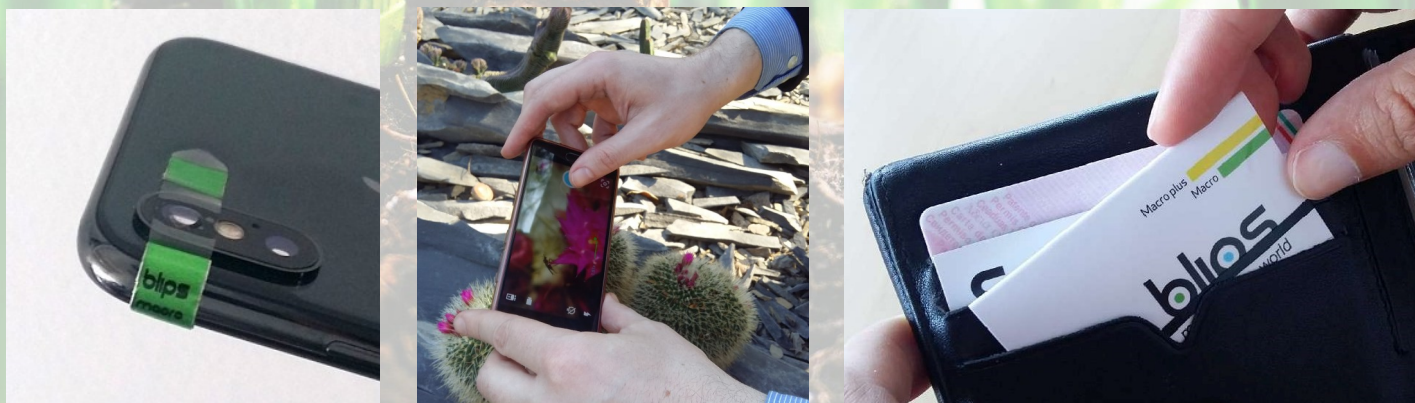


blips
magnify the world

Mini-lenses for smartphone

Gardening and agriculture applications





Blips are add-on lenses for smartphone and tablet, which **enhance the optical features of any portable device**.

With them, you can have a powerful macro camera or even a microscope always with you.

The **extreme portability** of the Blips lenses is the ideal solution for anyone who needs to look at the tiniest detail of the micro-world, anytime and anywhere. You can **take pictures or videos and share them** exploiting the well-know and powerful ICT of current phones or tablets.

Macro Plus
5x



Macro
10x



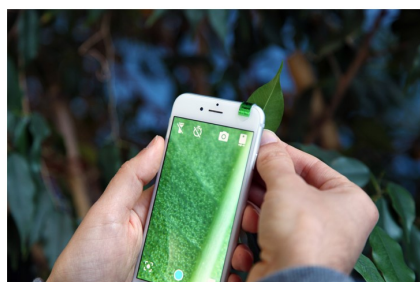
Micro
20x



Ultra
33x



For macro photography



For microscopy



You can use Blips lenses to look for pests, parasites or infections in plants and crops. The extreme portability of this technology allows anyone to have a powerful macro camera in his pocket.

It can provide a **hi-level magnification together with an extreme ease of use**, and without expensive or bulky technology.

This is the ideal solution for pest control in agriculture or flower growing.

The **Macro Plus** lens (5x) can provide immediate diagnostics, and can be used for observing moving insects and details of crops diseases and parasites. The **Macro** lens (10x) offers a much higher resolution, for advanced diagnostics on the field. It can be used for watching stationary insects and parasites, or insect eggs.

The **Micro** (20x) and the **Ultra** (33x) lenses, together with the Blips Labkits, allow to take good photo of insects/mites/eggs/plant disease with cellular resolution in laboratory, or in office, for a fast identification to species level with a reasonable degree of certainty.

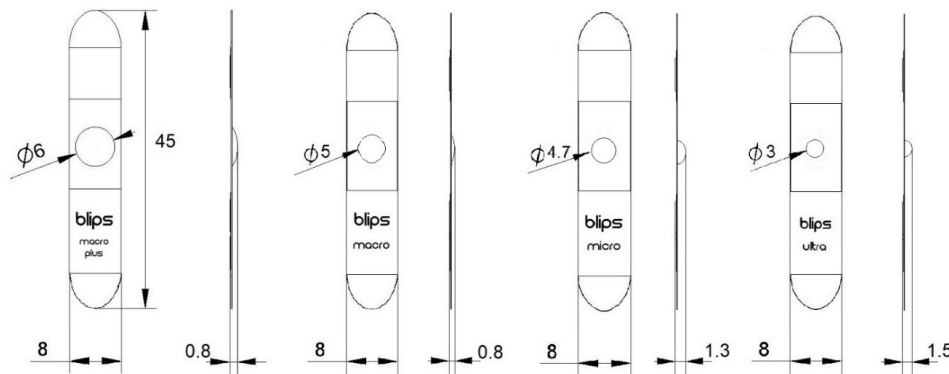
TECHNICAL FEATURES

Blips is a trademark representing a set of mini-lenses for smartphone and tablet designed, developed and manufactured in Italy by Smart-microoptics Srl.

These very thin plastic lenses are on a flexible film; the Blips lenses can be used on any phone model. Two sticky bands on the rear side of the flexible film keep the lens on the correct position, on the phone camera objective lens. The adhesive is reusable up to hundreds of times, and it can be easily replaced, if needed.

There are four types of lenses: Macro Plus, Macro, Micro and Ultra, with increasing magnification and shallower depth of field and field of view.

Dimensions (mm)



Optical features

Model	Working Distance	Magnification level (approx.)	Optical Resolution (micron)	Field of view (mm)
Macro plus	20 mm	5 X	15	20
Macro	10 mm	10 X	8	10
Micro	5.5 mm	20 X	4.7*	5
Ultra	3 mm	33 X	3.5*	3

These optical parameters may vary when the lenses are applied on different smartphone models.

**The optical resolution has been measured using the lenses on a mid-range smartphone, and with the target observed in transmitted light, (on Blips Labkits).*

Environmental stability

Storage Temperature	-10 to 50 °C
Operating Temperature	5 to 40 °C

Materials

The Blips lenses are made of high transparent (>95% internal transmittance, for visible light) and high refractive index (n=1.57) plastic resins. Two aluminum pads on the flexible film enhance the mechanical performance of the product.

Specifications subject to change without notice.



Blips lenses are entirely made in Italy, in our headquarters in Genoa. We manufacture and check the quality of every single item. Our patent-pending technology ensures hi-quality optical features together with ease of use, at a very low price.

SmartMicroOptics s.r.l. is a spin-off of the Italian Institute of Technology.

Blips lenses have been sold in more than 100 Countries all over the World and produced in more than 80,000 pieces.

Blips is a product already appreciated in many different field, and it can be bought as stand alone product, or coupled with other products as useful accessory.



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