

USER MANUAL

VisionAR

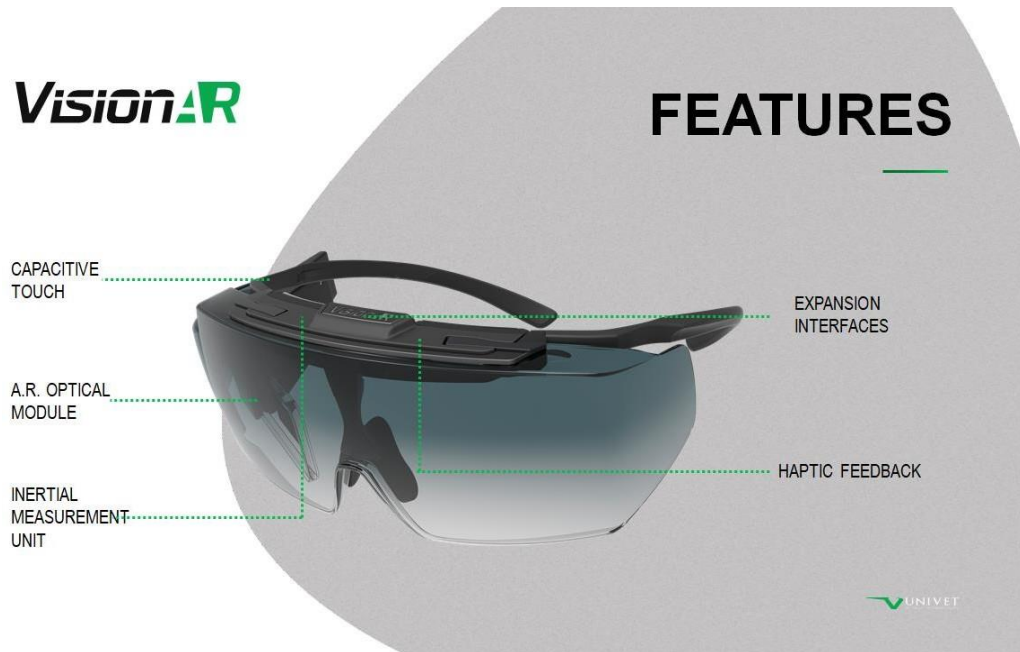
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1. Smart Glasses Overview

VisionAR offers the following:

- a) Capacitive Touch
- b) Haptic Feedback
- c) AR Optical Module
- d) Inertial Measurement Unit
- e) Expansion Interface



a) Capacitive Touch

A capacitive touch sensor which can be programmed to be interpreted as

- Tap
- Double Tap
- Forward
- Back

b) Haptic feedback

A haptic feedback can be programmed for signalling an alarm to VisionAR (i.e. vibration)

c) AR Optical Module

The optical module is composed of a transparent display which can be aligned with the field of vision

d) Inertial Measurement Unit

Triaxial accelerometer, gyroscope and magnetometer are on board to detect user's relative position and movement

e) Expansion Interface

The expansion interface allows to increase the functionalities of VisionAR by connecting compatible device (e.g Camera) through standard I2C protocol

2. Smart Glasses Before Starting

Assembling your safety glasses

1. Take the glasses and cables out of the box
2. Fasten the elastic headband to the glasses temples using clips
3. Insert the USB cable into the USB slot on the optical module
4. Lock the USB cable to temples by clip

Disassembling your safety glasses

Make sure that the Control Unit is turned off

1. Un-plug the USB cable from the Control Unit
2. Unlock the USB cable from clip
3. Un-plug the USB cable from the optical module
4. Remove the elastic headband from glasses
5. Remove the lenses by pulling it from the opposite side respect to the Optical module
6. Remove the optical unit by:
 - a. Lifting the two metal clips which are present on the top of the VisionAR.
 - b. Gently pull the optical unit out of the protective lenses.

3. Smart Glasses - What's in the Box

Opening the VisionAR Smart Glasses box (*Figure 1*), the portable case is immediately visible; all the accessories will be displayed in this page.



Figure 1: Panoramic of VisionAR Smart Glasses box

Portable case

Inside the box, the portable case has the following content:

- Glasses with Gradient lens mounted
- Spare Clear lens
- Quick User Guide
- Informative Note



Figure 2: Portable case appearance



Figure 3: Portable case content

VisionAR design is illustrated in *Figure 4*, a gradient lens will be mounted as default (*Figure 5*). Spare clear lens is available in the package (*Figure 6*):



Figure 4: VisionAR design, rear view

Accessories

All supplied accessories are shown in *Figure 8*, a dividing layer separates portable case compartment from accessories (*Figure 7*):



Figure 7: Dividing layer



Figure 8: All the supplied accessories

All the accessories

- 1 Screwdriver
- 2 Clip
- 3 USB cable
- 4 Cleaning cloth and liquid
- 5 Elastic headband

Figure 5: Fixed green LED when battery pack is fully charged

4. FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Additional information about RF safety can be found on the links below:
FCC website at <https://www.fcc.gov/general/radio-frequency-safety-0>