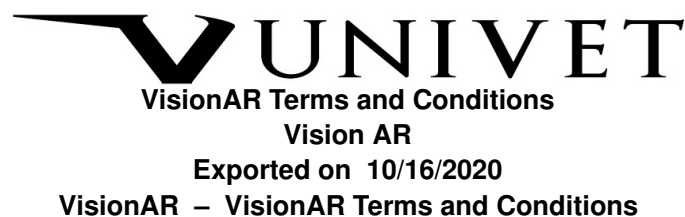




Univet PZ0005 Personal Protective Equipment for eyes with augmented reality connected to Control Unit User Guide

[Home](#) » [UNIVET](#) » Univet PZ0005 Personal Protective Equipment for eyes with augmented reality connected to Control Unit User Guide 



The following pages describe the terms and conditions which apply to the use of VisionAR glasses, the possible health and safety risks, and the limitations on the applicability of the product warranty.

- Warranty(see page 4)
- General Terms and Conditions(see page 5)
- Precautions and Recommendations(see page 6)
- Risks(see page 9)

Contents

- [1 Warranty](#)
- [2 General Terms and Conditions](#)
- [3 Precautions and Recommendations](#)
- [4 Risks](#)
- [5 Documents / Resources](#)
- [6 Related Posts](#)

Warranty

This product is guaranteed to be free from defects in materials and workmanship according to European standards.

This product does not contain user-serviceable parts. Repairs must be carried out exclusively by an authorized

Univet s.r.l Service Center. Unauthorized repairs or modifications could cause permanent damage and invalidate the warranty; furthermore, modifications to the PPE by anyone other than the manufacturer and/or replacement of parts that do not conform to the required standards, may reduce performance and invalidate its certification.

Spare parts, if required, can be requested from Univet S.r.l. The replacement of structural components, if not specified in the packages or in a separate note, must be carried out only by Univet S.r.l.

This warranty does not cover damage caused by normal wear and tear or as a result of opening or repairing the Product by an unauthorized Service Center and does not cover damage caused by: improper use, moisture, liquids, proximity or exposure to heat and accidents, abuse, non-compliance with the instructions supplied with the Product, negligence or incorrect application. This warranty does not cover physical damage to the PPE or to the device.

Furthermore, this limited warranty does not cover:

- third-party software or drivers that can be installed on the Control Unit which is not supplied
- pre-installed software
- downloadable software from our website or by an authorized technician

The limited warranty does not cover the installation, removal or maintenance of the device or any related costs. In addition, this warranty does not cover any issues related to the use of our drivers, software or this device with systems, including Operating Systems and hardware, that do not meet the requirements indicated in the related documentation.

We do not provide commercial or other warranties for our devices and accessories other than the warranty set out in these Terms and Conditions. This limited warranty is provided in place of any other warranties or similar obligations (if any) created by advertising, documentation, packaging, or similar.

The provisions of this clause do not affect any of your legal rights under applicable mandatory national law, including but not limited to your legal guarantee of conformity for goods.

Univet S.r.l. reserves the right to evaluate the complete replacement and/or restoration of the article. Items that have deteriorated due to wear, improper use, or tampering with are excluded from maintenance and/or replacement operations.

General Terms and Conditions

You acknowledge, using this device, that its software and services are not intended or suitable for environments where they could cause inaccuracies or delays in the information provided by the device, injury, death or damage to the environment.

Univet S.r.l, within the limits of the law, declines responsibility for damages that may occur if the device is used in unsuitable conditions.

Before using the PPE (Personal Protective Equipment) it is necessary:

- Verify that the item meets your requirements (by reading this disclaimer)
- Verify that the frame, lenses, and display are not damaged or defective in any way that could compromise visibility or their structural impact resistance. If they are damaged or defective, the glasses must not be used and must be replaced
- If the PPE is not completely assembled or if it is necessary to replace one or more of its components, for As example the visor and/or the nose pads, the components must be assembled following the instructions provided in the box or in the separate dedicated documentation
- Verify that all components are assembled according to the instructions provided in the dedicated documentation or box, if any, and make sure they have the required safety marks
- Adjust the straps and fitting system so that the PPE cannot inadvertently move during use
- The PPE must be worn from the first instance of exposure to risk if it is required by the regulations in force for the relative PPE marking
- Place the Control Unit 20cm/8inch far from the body when powered on

Precautions and Recommendations

The following notes must be taken into account by all users, both for the user safety and for correct maintenance of the devices and all their components. These notes are divided into the following sections:

- General Usage Notes
- Cables
- Battery
- Third-Party Accessories
- Third-Party Control Units
- Control Unit Safety

3.1 General Usage Notes

- PPEs must not be exchanged between multiple users as they are intended for personal use only.
- If the PPE is damaged during use, for example, impact, heat, and/or exposure to corrosives, it must be replaced.
- Do not use cleaning products on PPE which have not been approved by Univet S.r.l. Contact – Univet S.r.l, for information on the products that can be used to clean and disinfect PPE.
- PPEs must be kept in their original packaging, at a temperature between 5°C and 40°C, in a dry environment, free of organic vapors and abrasive powders.
- To maintain the overall efficiency of the PPE it must not be exposed to direct heat or UV rays.
- Keep these notes together with the PPE and the original packaging.
- This item meets the requirements of the EU regulation 2016/425 and has been verified according to:
- **EN166** for the European market
- **ANSI Z87.1+** and FCC for the US market
- The PPE identification code is shown on the box. The performance of this PPE is specified by conformity marks on both the product and its packaging.
- Assemble the components and/or accessories following the user manuals supplied with each item.

3.2 Cables

- Make sure that the connection cable between Control Unit and the glasses does not get hooked by anything in the surrounding area while wearing the device. Also, make sure that the glasses-control unit connection cable does not wrap around your neck as this could cause accidents or injuries to the user.
- Verify the integrity of the glasses-control unit connection cable; do not use the cable if it is damaged as it could cause fire or electric shock.
- Do not place heavy objects on top of the eyeglass-control unit connection cable.
- Do not bend, twist or pull the glasses-control unit connection cable.
- Keep the power cable away from hot electrical devices.
- Verify that the cables are not placed in such a way as to be a risk to the user or to someone around them.
- Make sure that the power and glasses-control unit connection cables are not at risk of being walked on.
- Do not use the device while it is charging.

In the following situations, turn off the product immediately, disconnect the eyeglass-control unit connection cable and contact your local dealer or Univet S.r.l Service Center:

- In case of smoke, obstructions, smells, or noises;
- In the event that liquids or foreign objects enter the product;
- In case the product has been dropped or damaged;



Continuing to use the device in these conditions may result in fire or electric shock. Do not attempt to repair, open, or modify this product by yourself

3.3 Battery

The following list details some battery-related tips and warnings:

- Recharge the battery at least once every 6 months to avoid battery degradation.
- If the rechargeable battery is not used for a long time, we recommended running the battery for a complete cycle (100% charged to completely flat) a few times to ensure battery efficiency.
- If the battery performance decline significantly, the battery may have reached the end of its useful life and must be properly disposed and replaced.
- Charge the battery in an environment with a temperature range between 10°C and 30°C. The battery efficiency may decrease if it is charged outside this temperature range.
- Use only battery chargers approved by the manufacturer; using other chargers can: reduce the overall battery life, cause battery fires, explosions, or the device malfunction.
- Do not place the battery on heating devices such as ovens, stoves, or radiators, or near devices that emit electromagnetic waves such as microwave ovens as the battery could explode.
- Do not expose the batteries to very high or low temperatures.

3.4 Third-Party Accessories

Third-party accessories can be connected to the PPE to add additional functionalities, however, the following must be taken into consideration:

- The accessory must be designed in such a way as not to affect the mechanical or electric components of the device.
- The accessory must not impact the function of the glasses or the face area protected by the glasses.
- Before attaching an accessory verify that, if it detaches from the unit during use, this presents no risk.

3.5 Third-Party Control Units

Third-party Control Units can be used with the device but they must:

- Only if connected via the USB cable provided by Univet s.r.l.
- Third-party Control Units must:
 - use the standard USB 2.0 hardware interface;
 - use a communication protocol that follows the frame buffer standard and the CDC defined and limited by

Univet s.r.l.;

- be certified and marketed CE;
- In order to maintain its safety status, the device must not be affected or altered by the Control Unit.

3.6 Control Unit Safety

The Control Unit manages voluntary and involuntary disconnections from the glasses thanks to a pre-installed application. The application starts automatically on start-up.

The application works by:

- tracking the last application in use;
- stopping the application which should in turn save its state at the time of the disconnect;
- restarting the application which should in turn restore its state to that of the time of disconnection.



If you manage critical data, we recommend backing up the data at regular intervals

Risks

Using augmented reality may distract you and cause dangerous situations (for example, this device must not be used while driving or riding a bicycle). By using this device you agree that you are responsible for observing the laws in place that prohibit or restrict the use of such devices.

In particular, you should consider the following areas of risk:

- Electromagnetic Interference(see page 9)
- Magnetic Connector(see page 9)
- Radio Modules(see page 9)
- Personal Safety(see page 10)
- Health(see page 10)

4.1 Electromagnetic Interference

- When using this device in areas where the use of electromagnetic waves is prohibited, such as in an airplane or hospital, disable the PPE or the Bluetooth / Wi-Fi function. Do not use these functions automatically controlled devices, such as automatic doors or fire alarms
- Switch off the device in case of danger or emergency, as electromagnetic waves can cause interference and malfunctions in electronic equipment
- Do not use this device in places where it may put you or others at risk, for example in health facilities and near electronic medical equipment
- Note the following points when using the Bluetooth or Wi-Fi function in medical facilities
 - Do not take this product into operating rooms, intensive care units (ICUs), or cardiac therapy units (CCUs)
 - Even when not in the wards, turn off this product or stop the electromagnetic waves if you are using electronic medical equipment
 - Follow the rules set by medical institutions that prohibit the use of devices which emit electromagnetic waves or prohibit access to certain areas with such devices

4.2 Magnetic Connector

Neodymium magnets were used to connect the two parts of the CU- PPE cable. The magnets must be kept at least at the specified safety distances :

- The minimum distance to a pacemaker is 62mm for a magnet with a pull of 6.2kg
- The minimum distance to a hearing aid/s is 20mm for a magnet with a pull of 6.2kg

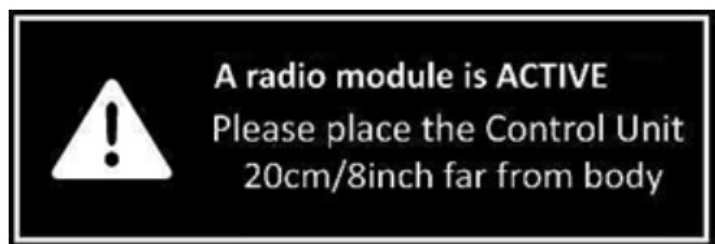
4.3 Radio Modules

The radio modules in the Control Unit can cause interference or temporary malfunctions in the acoustic instruments.



Please note that Univet Control Unit without an application has no use and does not run any radio component.

The user must be warned about the radio modules situation by the application which will be running on the control unit. Such application will be made and installed by the customer (that could be the application SW developer). The same application must notify the user about performed action. An example of a notification could be as



4.4 Personal Safety

For the safety of the user, carefully read the attached documents for information on the correct use of the product. After reading this document, keep them in a safe place for future reference.

- Pay attention to the surrounding environment while wearing the PPE device
- The maximum brightness level of the display is limited to ensure a comfortable user experience and avoid being temporarily blinded. In the event of a malfunction, a brighter image may be displayed, in which case remove the device and notify your supervisors. Do not use this device in conditions and environments where this malfunction may expose you or others to danger
- Do not leave this product in places subject to variations in temperature, pressure, and humidity that go beyond the operating range specified by the manufacturer
- Do not use the PPE device:
 - when driving
 - operating hazardous machinery
 - in locations with poor lighting
 - while on unstable surfaces (such as stairs or at high altitudes)
 - while walking in dangerous places, such as near machinery or equipment where entanglement may occur: this could cause accidents or injuries
- When work activities involve moving while viewing images on the device display, pay attention to the surrounding environment. If you are too focused on the image, you may cause accidents, fall, and /or walk into people

- In the event that any part of the PPE is damaged, smokes, or gives off a burning smell, immediately stop using the device. It can be used again only after carrying out checks and/or repairs at the Univet s.r.l Service Center

4.5 Health

Users with the following health problems must receive approval from a physician before using an augmented reality PPE:

- Passive and/or active medical devices
- Affected by diseases that can alter the excitability of the central nervous system
- Affected by heart disease
- In the presence of obvious physical side effects such as nausea, visual fatigue, loss of balance, headache, discontinue use of the PPE device and consult a doctor
- Discontinue use of this PPE if the skin that touches the device is irritated or a skin rash occurs, and consult your dermatologist. If you sweat while using PPE, clean the sweat from your face and the product to prevent itching or skin irritation
- Take periodic breaks from viewing images on the display of this device. Prolonged use of the device may cause eye strain. In the case of fatigue or discomfort which continues after taking a break, stop using the device immediately
- Stop using this device if the skin of your face becomes inflamed during use and consult a dermatologist or doctor. Allergies to the material of the product may occur
- Do not use this product if you are sensitive to light or suffer from motion sickness as this device could exacerbate these conditions
- Do not use this device if you have existing eye conditions. Ignoring such conditions could aggravate symptoms such as strabismus, amblyopia or anisometropia
- If you have a pacemaker or an implanted defibrillator, be sure to maintain a distance of at least 15 cm between the Control Unit and the implanted device when using the Bluetooth or Wi-Fi function.
Electromagnetic waves can affect pacemakers or defibrillators
- If a problem or malfunction occurs, stop using this product immediately, failure to do so may result in injury or cause nausea
- To avoid accidental ingestion of parts of the device, do not put them in your mouth
- Do not touch the glasses, cables and various components of the device with wet hands as doing so could result in electro-shock

Documents / Resources

<p>Univet Terms and Conditions</p> <p>Univet</p> <p>Univet</p>	<p>Univet PZ0005 Personal Protective Equipment for eyes with augmented reality connected to Control Unit [pdf] User Guide</p> <p>PZ0005, 2AKOLPZ0005, Personal Protective Equipment eyes, augmented reality connected Control</p>
--	---