PENTA

NOTICE D'UTILISATION
USER MANUAL

FR
EN

/ V1-BK-...

/ V2-12-LPP-BK-...

/ V2-25-LPP-BK-...

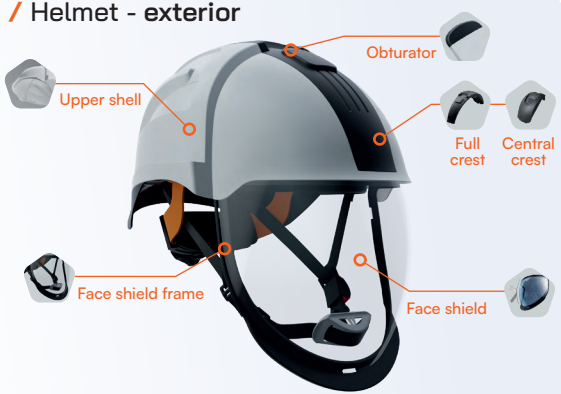
VISARC
WHEN TECHNOLOGY MEETS SAFETY

CONTENTS

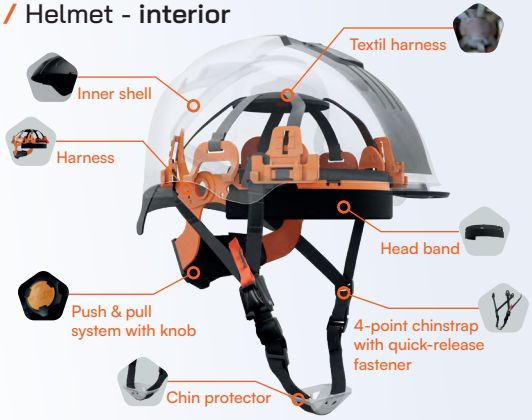
Electrician's helmet with integrated arc flash face shield

This manual must be read carefully by workers who wear the helmet and by those who are in charge of storage and maintenance.

/ Helmet - exterior



/ Helmet - interior



/ Crests

/ Electronic modules

Monobloc / one-part headlamp

Headlamp with auxiliary battery pack and red LEDs on the back

Headlamp with auxiliary battery pack and red LEDs on the back + personal alarm

Spare battery pack

/ Additional accessories

Reflective tapes

Ear muffs

Beard

Neck protector

Lateral protection fabric

MANUFACTURER
CONFORMITY & TRACEABILITY

/ Manufacturer
PENTA Electrical Safety Products - Site SIBILLE OUTILLAGE
ZI Les Plaines, 815 B Chemin du Razas, 26780 Malataverne - France
Telephone: +33 (0)4 75 90 58 00
Email: contact@pentaesp.com
Website: **www.pentaesp.com**

/ The notified body that has carried out the EU type examination
For the helmet and the face shield with all accessories:
AITEX: Carretera Banyeres nº 10, 03802 Alcoi, Alicante, Spain

/ The notified body assessing type conformity on the basis of internal production control and product control at random intervals (module C2)
For the helmet and the face shield with all accessories:
AITEX: Carretera Banyeres nº 10, 03802 Alcoi, Alicante, Spain

/ Product traceability
Via the QR code on the helmet as shown below

/ EU declaration of conformity
Via our website www.pentaesp.com by indicating the commercial reference ordered

Or via the QR code opposite

CE 0161

VISARC is an electrician's helmet with an integrated face shield of the latest generation, designed especially to keep you safe, particularly from the hazards that can occur during live working, on "on and off" electrical networks.

VISARC has been developed especially to keep your head as safe as possible in the event of a short circuit arc flash. It will keep you protected from the effects of that phenomenon (heat and flames, molten metal splash, UV radiation and high lighting level, etc.).

Those effects can potentially lead to permanent harm to all the parts of the body (burns, blindness, deafness, poisoning, electric shock), and can even be fatal.

Protecting the head alone is not enough. As a result, the protection must be supplemented by clothing, gloves and other appropriate collective protection equipment.

DETAILS
OF STANDARDS & MARKINGS

We are part of national and international committees for standardisation.
Our commitment is to drive requirements ever higher to offer users optimum safety.

VISARC complies with the following applicable standards, the most demanding in terms of health and safety, and in accordance with European Regulation 2016/425 in respect of PPE.

THE HELMET

/ **EN 397:2012 + A1:2012**
Physical and performance requirements for industrial safety helmets

Mandatory requirements:
- Shock absorption
- Resistance to penetration
- Flame resistance
- Chin strap anchorages
- Marking

Optional requirements:
- Very low temperature (- 20 °C or - 30 °C)
- Lateral deformation (LD)

/ **EN 50365:2023**
- Live working:
Electrically insulating helmets for use on low and medium voltage installations

ASSEMBLY

HELMET & FACE SHIELD

/ **IEC 62819:2023**
- Live working - Eye, face and head protectors against the effects of electric arc - Performance requirements and test methods: BOX TEST & OPEN ARC

FACE SHIELD

/ EN **ISO 16321-1:2022 (in addition to EN 166:2001 and EN 170:2002)**
Eye and face protection for occupational use

/ **GS-ET-29:2019**
Additional specifications for tests and specifications of face shields for electrical work (BOX TEST method)

COMPONENTS	STANDARDS	ARC FLASH TEST METHODS	TECHNICAL FEATURES							
			V1-BK-...			V2-12-LPP-BK-...		V2-25-LPP-BK-...	
			Face shield		Safety helmet	Face shield	Safety helmet	Face shield	Safety helmet
			CERTIFICATE NAME : **V1-FS** all versions V1-BK without LPP or LPF1 (chin and lateral protection)	CERTIFICATE NAME : **V1-FS2** all versions V1-BK with LPP or LPF1 (chin and lateral protection)	CERTIFICATE NAME : **V1-BK-L** all versions V1-BK	CERTIFICATE NAME : **V2-12-FS2** all versions with LPP (rigid chin and lateral protection)	CERTIFICATE NAME : **V2-12-BK-L** all versions V2-12-LPP-BK	CERTIFICATE NAME : **V2-25-FS2** all versions with LPP (rigid chin and lateral protection)	CERTIFICATE NAME : **V2-25-BK-L** all versions V2-25-LPP-BK
HELMET	EN 397+A1 : 2012				LD		LD		LD
	EN 50365 : 2023				Class 2 : Use up to 17 000 V AC Tested up to 30 000 V AC		Class 2 : Use up to 17 000 V AC Tested up to 30 000 V AC		Class 2 : Use up to 17 000 V AC Tested up to 30 000 V AC
FACE SHIELD	EN IEC 62819 : 2023 *	BOX TEST		EN IEC 62819 : 2023 APC1 LTC 0 UL1,2		EN IEC 62819 : 2023 APC2 LTC 0 UL1,7		EN IEC 62819 : 2023 APC2 LTC 0 UL1,7	
		OPEN ARC				ATPV 12 cal/cm²		ATPV 25 cal/cm²	
	EN 166 : 2001		EN 166 : 2001 2C-1,2 PENTA 1 AT 8-1-0 9 KN 166 3 8-1-9 AT			EN 166 : 2001 2C-1,7 PENTA 1 AT 8-1-0 9 KN 166 3 8-1-9 AT		EN 166 : 2001 2C-1,7 PENTA 1 AT 8-1-0 9 KN 166 3 8-1-9 AT	
	EN 170 : 2002								
	GS-ET-29 : 2019	BOX TEST	GS-ET-29 : 2019 APC1 (ARC FLASH PROTECTIVE SHIELD)			GS-ET-29 : 2019 APC2 (ARC FLASH PROTECTIVE SHIELD)		GS-ET-29 : 2019 APC2 (ARC FLASH PROTECTIVE SHIELD)	
	EN ISO 16321-1 : 2022		16321-1 : 2022 PENTA UL1,2 1 ET K N 9 16321 PENTA ET 3 9 1-M CE 0161 DT for impact level	ET for impact level		16321-1 : 2022 PENTA UL1,7 1 ET K N 9 16321 PENTA ET 3 9 1-M CE 0161		16321-1 : 2022 PENTA UL1,7 1 ET K N 9 16321 PENTA ET 3 9 1-M CE 0161	
	ASTM F 2178 : 2023	OPEN ARC				ATPV 12 cal/cm²		ATPV 25 cal/cm²	
Detailed references With crest color variation R (red), G (green), Y (Yellow), W (white), and new upcoming colors			V1-BK with one or several of those accessories : * TC42AB * VA-NECK * VA-REFLECT * VEA-1 * VEA-2 * VEA-3-L1 to L5	V1-LPP-BK with one or several of those accessories : * VA-NECK * VA-REFLECT * VEA-1 * VEA-2 * VEA-3-L1 to L5	V1-BK or V1-LPP-BK with one or several of those accessories : * TC42AB (only with V1-BK) * VA-NECK * VA-REFLECT * VEA-1 * VEA-2 * VEA-3-L1 to L5	V2-12-LPP-BK with one or several of those accessories : * VA-NECK * VA-REFLECT * VEA-1 * VEA-2 * VEA-3-L1 to L5	V2-12-LPP-BK with one or several of those accessories : * VA-NECK * VA-REFLECT * VEA-1 * VEA-2 * VEA-3-L1 to L5	V2-25-LPP-BK with one or several of those accessories : * VA-NECK * VA-REFLECT * VEA-1 * VEA-2 * VEA-3-L1 to L5	V2-25-LPP-BK with one or several of those accessories : * VA-NECK * VA-REFLECT * VEA-1 * VEA-2 * VEA-3-L1 to L5

/ **Periodic inspection regarding EN 50365:2023**: The periodic inspection consists of a visual examination and, if applicable, an electrical test, except for classes 00 and 0, where only a visual inspection is required. Electrically insulated helmets must not be used after 12 months from issue, unless they are retested with a routine test according to section 6 b). Periodic inspection and testing must only be carried out by persons with formal training and qualifications. Electrically insulated helmets must be marked with the date of the current or next required inspection and test. Such marking must not affect the dielectric properties of the helmet.

NB: For additional warnings, see page 13.

DETAILS
OF MARKINGS

Helmet marking example

Face shield marking example

Face shield marking on black frame example

Rigid and lateral protection validated for EN IEC 62819: 2023

Upper shell marking example

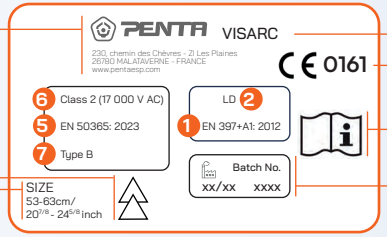
Harness marking example

/ Legend for markings

STANDARD	No	MARKING	DESCRIPTION
EN 397+A1: 2012	1	EN 397+A1:2012	Standard reference regarding industrial and electrician safety helmet
	2	LD	Resistance to lateral deformation
	4	ABS	Material of the upper shell of the helmet (marking on the upper shell)
EN 50365: 2023	5	EN 50365:2023	Standard reference regarding industrial and electrician safety helmet
	6	Class 2 (17 000 V AC)	Electrical class 2 for installations with nominal voltage up to 17,000 V AC *AC = alternative current (voltage test)*
	7	Type B	Helmet design: peak cap and no brim
GS-ET-29: 2019	8	APC 1 APC 2	Arc Protection Class I: 4 kA Arc Protection Class II: 7 kA
ASTM F2178	9	ATPV 12 ATPV 25	Arc thermal performance value 12 cal/cm² Arc thermal performance value 25 cal/cm²
EN IEC 62819: 2023	10	APC 1 APC 2	Arc Protection Class I: 4 kA Arc Protection Class II: 7 kA
	11	ATPV 12 ATPV 25	Arc thermal performance value 12 cal/cm² Arc thermal performance value 25 cal/cm²
	12	LTC 0	Light transmittance class 0
	13	UL 1,2	UV filter

STANDARD	No	MARKING	DESCRIPTION
EN ISO 16321-1: 2022	14	UL-1,2	UV protection class, with color detection of signal lights
	15	1	Optical class
	16	ET	Resistance to high-energy impact (120 m/s) after extreme temperature conditioning (-5 to +55°C) *For information: DT = Impact level D (80 m/s) at extremes of temperature.*
	17	K	Scratch resistance
	18	N	Fogging resistance
	19	9	Resistance to molten metals and hot solids
	20	1-M	Testing headform size
EN 166: 2001	21	2C-1,2	UV protection class, with color detection of signal lights
	22	1	Optical class
	23	AT	Impact of particles at high speed (120 m/s) and extreme temperatures *For information: DT = Impact level D (80 m/s) at extremes of temperature.*
	24	8	Short circuit electric arc
	25	1	Electric arc class I
	26	0	Light transmittance class 0
	27	9	Resistance to molten metals and hot solids
	28	K	Scratch resistance
	29	N	Fogging resistance
	30	3	Liquid droplets and splashes

HELMET



- Manufacturer identification
- "Live working" symbol in relation with standard EN 50365
- Head band adjustment sizes (also marked on helmet harness)
- Trade name of helmet with face shield
- CE marking followed by identification number of notified inspection body (category III PPE)
- Pictogram indicating that reading the instructions is mandatory
- Month/year of helmet manufacture and assembly + Batch number identification

Space provided to note the date of first use, the date of examination or the date of each periodic inspection (**see page 14** regarding the adhesive label).

FACE SHIELD (MARKING ON BLACK FRAME)

Commercial ref. of face shield — Standard ref. for face shield — Standard reference for face shield (new)

21 — 22 23 24 25 26 27 28 29 — 30 24 22 27 23 — 14 15 16 17 18 19

VSP-FACE1 | EN 166:2001 2C-1,2 PENTA 1 AT 8-1-0 9 KN — 166 3 8-1 9 AT | EN ISO 16321-1:2022 PENTA UL1,2 1 ET K N 9 — 16321

PENTA ET 9 1-M CE 0161 | GS-ET-29:2019 APC1 (ARC FLASH PROTECTIVE SHIELD) | EN IEC 62819:2023 APC 1 LTC 0 UL1,2

16 19 20 — 8 — 10 — 12 — 13

- Standard ref. for BOX TEST method
- Standard ref. for BOX TEST/ OPEN ARC method for face and head protection

FACE SHIELD

- Manufacturer identification
- Batch number identification
- CE marking followed by identification number of notified inspection body (category III PPE)
- Protection rating against arc flash risk
- Pictogram indicating that reading the instructions is mandatory

UPPER SHELL

4 ABS

HARNESS

PENTA
VISARC
Size: 53-63 cm

MARKING

V2-12-LPP-BK-...

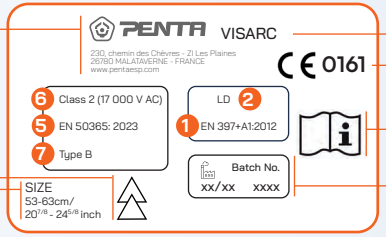
HELMET

Manufacturer identification

"Live working" symbol in relation with standard EN 50365

Head band adjustment sizes (also marked on helmet harness)

Space provided to note the date of first use, the date of examination or the date of each periodic inspection (**see page 14** regarding the adhesive label).



Trade name of helmet with face shield

CE marking followed by identification number of notified inspection body (category III PPE)

Pictogram indicating that reading the instructions is mandatory

Month/year of helmet manufacture and assembly + Batch number identification

FACE SHIELD (MARKING ON BLACK FRAME)

Commercial ref. of face shield

Standard ref. for face shield

Standard reference for face shield (new)

VSP-FACE2-12 | EN 166:2001 2C-1,7 PENTA 1 AT 8-1-0 9 KN — 166 3 8-1 9 AT | EN ISO 16321-1:2022 PENTA UL1,7 1 ET K N 9 — 16321 PENTA ET 9 1-M CE 0161

GS-ET-29:2019 APC2 (ARC FLASH PROTECTIVE SHIELD) | EN IEC 62819:2023 APC 2 LTC 0 UL1,7 ATPV 12 CAL/CM² | ASTM F2178 (ATPV 12 CAL/CM²)

Standard ref. for BOX TEST method

Standard ref. for BOX TEST/ OPEN ARC method for face and head protection

FACE SHIELD

Manufacturer identification

Batch number identification

CE marking followed by identification number of notified inspection body (category III PPE)

Protection rating against arc flash risk

Pictogram indicating that reading the instructions is mandatory

UPPER SHELL

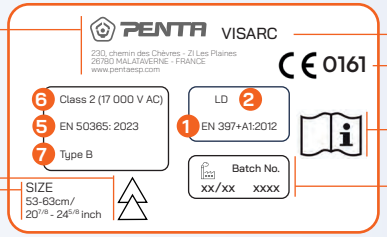
4 ABS

HARNESS

MARKING

V2-25-LPP-BK-...

HELMET



- Manufacturer identification
- "Live working" symbol in relation with standard EN 50365
- Head band adjustment sizes (also marked on helmet harness)
- Trade name of helmet with face shield
- CE marking followed by identification number of notified inspection body (category III PPE)
- Pictogram indicating that reading the instructions is mandatory
- Month/year of helmet manufacture and assembly + Batch number identification

Space provided to note the date of first use, the date of examination or the date of each periodic inspection (**see page 14** regarding the adhesive label).

FACE SHIELD (MARKING ON BLACK FRAME)

- Commercial ref. of face shield
- Standard ref. for face shield
- Standard reference for face shield (new)

VSP-FACE2-25| EN 166:2001 2C-1,7 PENTA 1 AT 8-1-0 9 KN — 166 3 8-1 9 AT | EN ISO 16321-1:2022 PENTA UL1,7 1 ET K N 9 — 16321 PENTA ET 3 9 1-M CE 0161

GS-ET-29:2019 APC2 (ARC FLASH PROTECTIVE SHIELD) | EN IEC 62819:2023 APC 2 LTC 0 UL1,7 ATPV 25 CAL/CM² | ASTM F2178 (ATPV 25 CAL/CM²)

- Standard ref. for BOX TEST method
- Standard ref. for BOX TEST/ OPEN ARC method for face and head protection

FACE SHIELD

- Manufacturer identification
- Batch number identification
- CE marking followed by identification number of notified inspection body (category III PPE)
- Protection rating against arc flash risk
- Pictogram indicating that reading the instructions is mandatory

UPPER SHELL

4 ABS

HARNESS

PENTA
VISARC
Size: 53-63 cm

PRECAUTIONS
FOR USE

The electrician's helmet with integrated arc flash face shield VISARC is a category III PPE which addresses a hazard that could lead to permanent serious injuries or death.

- In order to offer the protection in use for which the helmet with integrated face shield is designed, the information contained in this manual must necessarily be followed.
- The guarantees supplied by PENTA for this PPE will be voided if the warnings, precautions and instructions contained in this manual are not observed.
- PENTA reserves the right to modify or update the technical specifications and performance of this PPE and its accessories without notice.
- This PPE is intended for approved and qualified personnel.

- Even if the helmet is qualified and certified for a certain number of already identified risks, it may happen that it does not address all potential risks.
- Risk assessment: the user is responsible for assessing the risks in order to determine the level of exposure and the expectations relating to the environment or the type of work. Following that assessment, the VISARC helmet must be used along with other PPE offering protection from electrical risks such as clothing, gloves and other collective protection systems (insulating mats, stools etc.).
- The user should verify that the electrical limits of the helmets correspond to the nominal voltage present in the work environment.
- Electrically insulating helmets should not be used in situations where there is a risk that their insulating properties may be partially reduced.
- It is imperative to make sure that the marking on the helmet and the face shield is appropriate for the worker's activity and environment. If in doubt, it is imperative to contact the safety engineer of your company.
- Do not place any object between the head and the inner shell, as that could have serious or even permanent consequences in the event of an impact. This space is designed to absorb mechanical energy in case of impact.
- Make sure that the helmet is correctly positioned on the head, as shown in the instructions page 19. The chin straps must be fitted to the face for comfort and effective holding. That can offer effective stability in all conditions.
- The performance characteristics for which the helmet has been designed are only fulfilled if it is used correctly, if a visual inspection has been performed and if it is maintained as indicated in the instructions. Otherwise, the expected protection cannot be guaranteed.
- In order to conserve the properties of the helmet as far as possible, no hydrocarbon or solvent based cleaning agent may be used, and no paint or sticker that is not approved by the manufacturer may be applied. Even if that is not always visible, the properties of materials may be damaged and the initial performance totally degraded.
- In respect of this PPE, no part or accessory may be added and no change may be made, unless they are clearly proposed in the instructions or directly by PENTA. Only the accessories proposed and supplied by PENTA are qualified for maintaining the certification by the notified laboratory.
- After reading the instructions, if you are still in doubt about the protection offered by the helmet, its conditions of use or maintenance, feel free to contact us at the indicated details (page 4).
- Make sure that your lighting is sufficient, so as to have the best possible recognition. Some lighting can modify colour recognition.
- Do not store the helmet inside a vehicle (heat and UV rays, impacts upon sudden stops).
- Use only the spare parts proposed by the manufacturer.

/ **Replace the helmet:**

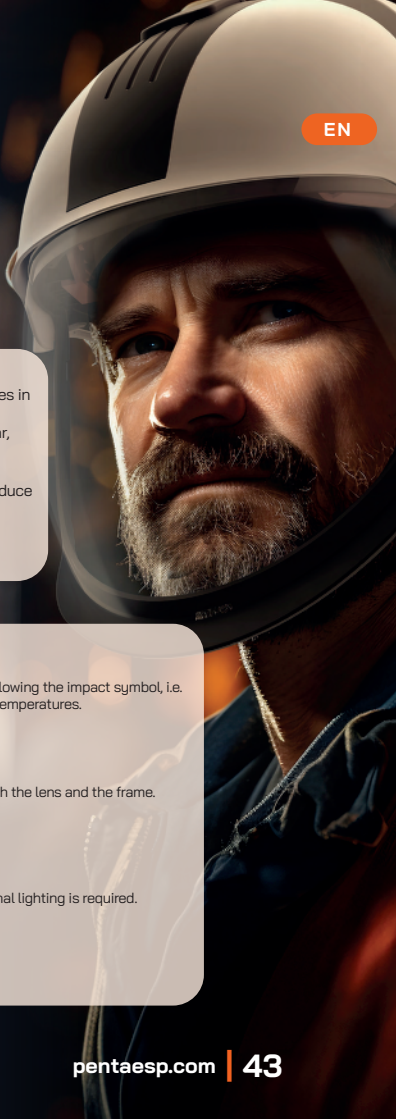
- If it has been exposed to chemicals.
- If it has been exposed to arc flash.
- If it has been damaged by a shock or a mechanical impact (scratches, cracks).
- If it has been exposed to high heat, or exposed to the sunlight for an extended period of time.

/ **Replace the face shield:**

- If it is scratched or damaged.

/ **Replace the spare parts:**

- Possibility to replace the full harness, the head band only and other spare parts (see page 17 for the complete list).



CAUTION !

- Before performing any work with arc flash hazards, lower the face shield to cover the hazards according to GS-ET-29:2019, and in case it is necessary to cover the hazards according to EN IEC 62819: 2023, beard should be fitted on the face shield.
- Do not overexpose the VISARC to a source of sunlight.
- Do not overexpose the VISARC to a source of heat.
- Do not use the VISARC for welding work.
- Do not expose the VISARC to a flame.
- Never use the VISARC without its crest.
- Materials that come into contact with the user's skin may cause allergies in sensitive individuals.
- High-velocity particle face shields, worn over regular corrective eyewear, may transmit impacts creating a potential risk to the user.
- Although protective devices are designed for flame protection, contamination with oil, grease or similar flammable substances may reduce their effectiveness when exposed to an electric arc.

/ FOR EN 166:2001

- If the symbols F, B and A are not the same for the eyepiece and the mount, the one assigned to the full protector must be the lower level of the two.
- If protection against high velocity particles at extreme temperatures is required, the selected protector should be marked with the letter T immediately following the impact symbol, i.e. FT, BT or AT. If the impact symbol is not followed by the letter T, then the protector should only be used against high velocity particle impacts at ambient temperatures.

/ FOR EN 16321-1:2022 STANDARD

- Protectors that have been subject to impact shall not be used and shall be discarded and replaced.
- If the impact level symbols are not equal on both the lens/filter and the frame, then it is the lower level that shall be assigned to the complete protector.
- The protections corresponding to the code numbers/letter 7, 9, CH are provided by the complete protector only if the respective symbols are equal on both the lens and the frame.
- **ET with Beard versions** : V1-LPP-BK / V1-LPP-BK+VA-NECK+VA-REFLECT/ V1-BK+VSP-LPF1 / V1-LPP-BK +VEA-1 OR VEA-2 OR VEA-3
  DT for other versions : V-BK / V1-BK+TC42AB / V1-BK+VA-NECK AND/OR VA-REFLECT / V1-BK+VEA-1 OU VEA-2 OR VEA-3

/ FOR GS-ET-29:2019-06 STANDARD

- **Class 0: Visible light transmittance VLT (D65) ⩾ 75 %**
  Light transmittance class 0: This product is assigned to the highest Light transmittance class 0 (LT Class 0). Under normal working conditions no additional lighting is required. However, please check your ability to detect color in the work environment before using this product.

/ FOR EN IEC 62819:2023 STANDARD

The marking is on the face shield but is only valid with lateral and chin protection versions (VSP-LPP & VSP-LPF1).

MAINTENANCE
STORAGE & TRANSPORT

NOTE
The face shield retracts into the double shell, which extends its lifetime.
The face shield may be replaced meanwhile if needed.

/ LIFETIME & OBSOLESCENCE
Helmet & face shield assembly

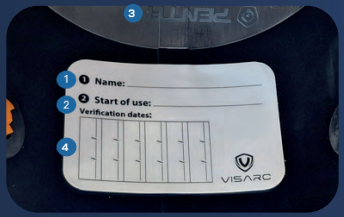
Date of **manufacture**

STORAGE
UP TO **3 YEARS***

Date of **entry into service**

LIFE
UP TO **5 YEARS**

Date of **end of life**



The helmets in the VISARC range offer very high ageing resistance.
Their life depends on the stress they have undergone over their period of use.

/ How to use the label:

Write down the surname and forename of the user 1 and the date of entry into service 2 on the adhesive label (on the left) supplied with the helmet. The user sticks the label inside the shell, above and reverse side to the PENTA logo 3. Space provided to note the date of first use 4, the date of examination or the date of each periodic inspection.

/ STORAGE & TRANSPORT

Store your helmet in the supplied bag to protect it from external attacks (scratches, dust, grease deposit etc.) in order to maximise its life and make it easier to transport. That bag is also available separately under the commercial reference VA-BAGSTD.

This helmet must be stored in a clean and dry location, away from sunlight, at a temperature between +5°C and +35°C without significant temperature variations, away from a source of heat.

The helmet must always be stored in a location with no permanent mechanical stress. Failure to follow this observation could lead to permanent deformation of some components and adversely affect the working and performance of the product.

* from the date of manufacture indicated inside the shell, depending on the storage conditions specified above, in its original packaging.

NOTE
Protection may be damaged if the cleaning method is not appropriate. It is advised to clean the face shield everyday and before storing it in its protective bag, to eliminate aggressive particles in the environment.

/ CLEANING & WASHING INSTRUCTIONS

HELMET SHELL & BEARD*

WASHING
warm soapy water

DRYING
ambient temperature or soft cloth

PRODUCTS
No solvents

* Depending on versions APC 1 or APC 2.

FACE SHIELD

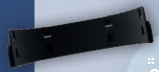
CARE AND MAINTENANCE
microfibre (ref VA-WIPE)

WASHING
warm water without soap or any other cleaner

PRODUCTS
No solvents

Before using the helmet with face shield, make sure that all the parts are dry.

Disinfection: use only products that are appropriate for the following: ABS, polycarbonate, etc.



SWEAT BAND

WASHING
warm soapy water

DRYING
ambient temperature

SIDE PROTECTION IN TECHNICAL FABRIC

WASHING
machine max. 60°

DRYING
delicate cycle

IRONING
medium temperature (max. 150°)

PRODUCTS
perchloro-ethylene

PRODUCTS
No chlorine nor bleach

ACCESSORIES

/ Integrated headlamp modules

VEA-1

Standalone dual-beam headlamp
with integrated battery

VEA-1-BK

VEA-2

Dual-beam headlamp
with auxiliary battery and LEDs at the rear

VEA-2-BK

VEA-3

Dual-beam headlamp with voltage alarm, auxiliary battery and LEDs at the rear

VEA-3-(L1 TO L5)-BK

ITEM NUMBER	VEA-3 L1-BK	VEA-3-L2-BK	VEA-3-L3-BK	VEA-3-L4-BK	VEA-3-L5-BK
SENSITIVITY	L1	L2	L3	L4	L5

/ Additional protection accessories

VA-REFLECT

Kit of 4 reflective tapes,
FR (Flame retardant)

VA-NECK

Neck protector with water-repellent fabric,
FR (Flame retardant), HV (High Visibility) and UV

TC42AB

SNR 26dB ear muffs adaptable
on electrician's helmets

NOTE
Our helmets are automatically supplied with a black crest. For integrated headlamp modules, you will receive adapted crests.

Full crest

Central crest

/ Other accessories

VA-BAGSTD

Standard
protective bag

VA-BAGFAR

"Faraday"
protective bag

VA-WIPE

Microfibre wipe
for electricians' face shields

/ Spare parts

VSP-PAK4000

Spare battery pack
for VEA-2 or VEA-3

VSP-FACE1

APC 1 arc flash face shield
version V1-BK-... or V1-LPP-BK-...

VSP-FACE2-12
VSP-FACE2-25

APC 2 arc flash face shield
ATPV 12 cal/cm² versions V2-12
ATPV 25 cal/cm² versions V2-25

VSP-HBAND

Head band

VSP-HARNESS-SP

Harness

VSP-CSTRAP

4-point chin strap
with chin support

VSP-LPP

Beard

VSP-LPF1

Side and chin protection
in fabric, FR (Flame retardant)
APC1, for helmets with 4-point chin strap

INSPECTION
& VERIFICATION

/ Targeted part

Helmet + face shield assembly

VISUAL INSPECTION

/ Points to check

1. No cracks, scratches, splitting, damage or failure.
2. A helmet that has been exposed to a significant impact must be replaced.
3. Full lowering of the face shield.
4. Proper clipping of face shield on its black frame.

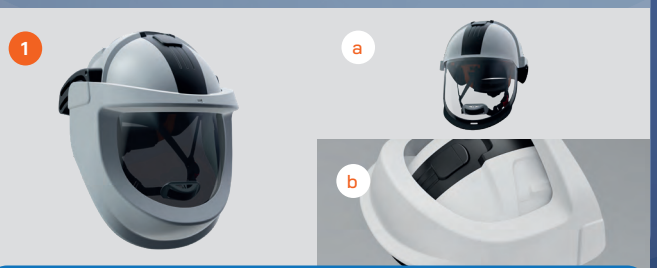
VERIFICATION & MANIPULATION

/ Targeted part

Beard

/ Points to check

1. Proper fitting of the Beard on the face shield. If there is a gap between the Beard and face shield, there may be two reasons:
   - a. The face shield is not in the low position.
   - b. The Beard has been deformed for an extended period during storage under stress. In that case, it must be changed.



VERSION WITH BEARD - REF V1-LPP-BK-..., V2-12-LPP-BK-... and V2-25-LPP-BK-...

NOTE
This category III PPE must imperatively be inspected and verified before each use in order to guarantee its integrity and therefore your own safety.

EN

POSITIONING OF HELMET

/ Targeted part

Helmet

/ Points to check

- Always make sure that the helmet is correctly positioned on the head before use (see page 20).

1. Headband adjustment by rack/harness adjustment in 2 positions: high and low.
2. Adjustment and closing of chin strap with its movable chin guard.
3. Levelling with a proper front/back and left/right balance.

1

headband adjustment

2

chin strap adjustment

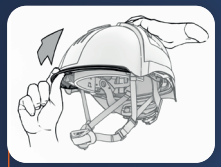
3

front/back balance

left/right balance

SHIELD & BEARD
MOVEMENTS

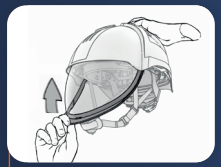
LOWERING & RAISING OF THE FACE SHIELD

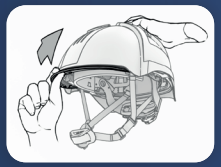


01
The face shield is lowered using both hands.

02
One hand holds the helmet on the head, while the other grasps the centre of the black frame and takes the face shield to its lowest position.

For versions with a VEA-3, a **BEEP!** sound indicates that the face shield has been lowered correctly.





03
To raise the face shield, handle it from the middle of the black frame.

CAUTION !
The face shield must be manipulated carefully; otherwise, the protective screen may be damaged.
Never use force during the movements!

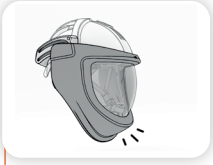
NOTE
The helmet is designed with a face shield guided between two insulating shells.
This choice is designed to protect the face shield when it is not in used.
The two shells (white for the upper shell, black for the inner shell) offer particularly effective electrical protection that allows the requirements of the standards. These technical design and safety choices do, however, call for a few recommendations to extend the life of the face shield.

LOWERING & PUTTING THE BEARD IN PLACE

CAUTION !
Make sure that the face shield has first been lowered before any manipulations

01
Grasp the middle of the Beard with one hand, and use the other to grasp the side near the ear.

02
Pull the Beard towards the front of the helmet and then push it down slightly.



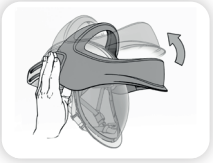
03
The Beard is positioned automatically against the face shield.

04
On helmets fitted with a voltage alarm (VEA-3 versions), a **BEEP!** sounds when the Beard is fully down, indicating that it is correctly positioned.

RAISING THE BEARD

01
Move the face shield forward over about 2 cm along an axis parallel to the floor.

02



03

Make a rotation movement till you reach the end position.

04

05

Push the Beard back to take it to its final position.

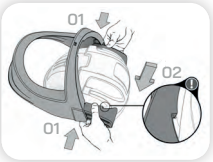
SHIELD & BEARD
DISASSEMBLING & REASSEMBLING

DISASSEMBLING THE BEARD

01

02

REASSEMBLING THE BEARD

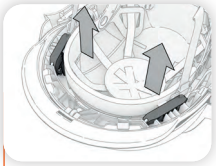


01

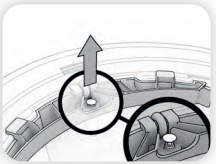
02

CAUTION !
In helmet versions V2-12 or V2-25, taking the Beard off the helmet deteriorates the safety performance of the PPE and thus increases risks (may be permanent). Your helmet will no longer offer APC 2 protection from arc flash.

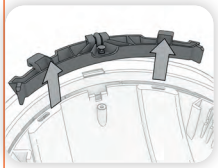
DISASSEMBLING THE FACE SHIELD AND BLACK FRAME ASSEMBLY



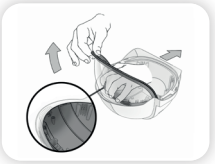
01



02

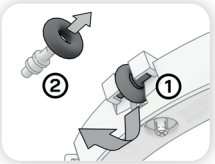


03



04

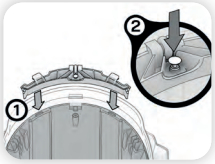
05



06

The face shield subassembly is captive between the outer and inner shells: symmetrical deformation in relation to the median plane is required to clear enough space to allow the extraction of the face shield subassembly. Coordinated movement deforming the internal shell combined with face shield extraction is required to release the face shield.

REASSEMBLING THE FACE SHIELD AND BLACK FRAME ASSEMBLY



03

Reassembling the face shield subassembly does not require any particular action to deform the internal shell. Make sure the reassembly is symmetrical in relation to the median plane to put the face shield back in place securely.

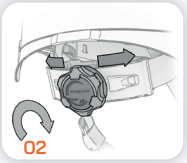
CAUTION !
Particular care must be taken while disassembling the face shield. Incorrect face shield disassembly could cause permanent damage to the PPE. Face shield disassembly requires deforming the inner shell in order to release the face shield and black frame subassembly.

ACCESSORIES
ADJUSTMENTS

NECK BAND

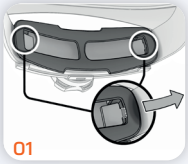
In order to adjust the neck band, use the rotary button at the rear of the helmet:

- Pull the button to release the adjustment facility. (01)
- Turn the button clockwise to tighten the neck band and anticlockwise to loosen it. (02)
- Press the button to lock the adjustment position. (03)



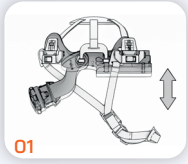
ELASTOMER PAD

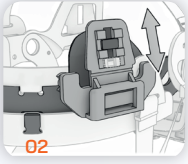
Simultaneously clip on both sides and fasten.

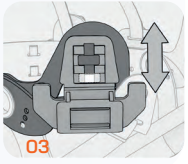


HARNESS (HEIGHT ADJUSTMENTS) REF. VSP-HARNESS

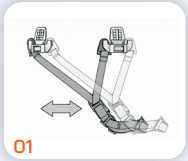
In order to adapt the helmet as closely as possible to your body shape and optimise comfort when worn, the harness is fitted with a height/head adjustment system.

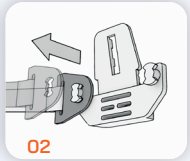






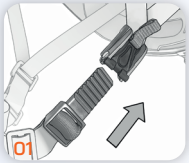
CHIN STRAP (ADJUSTMENTS)

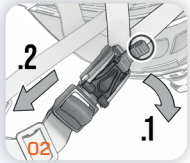


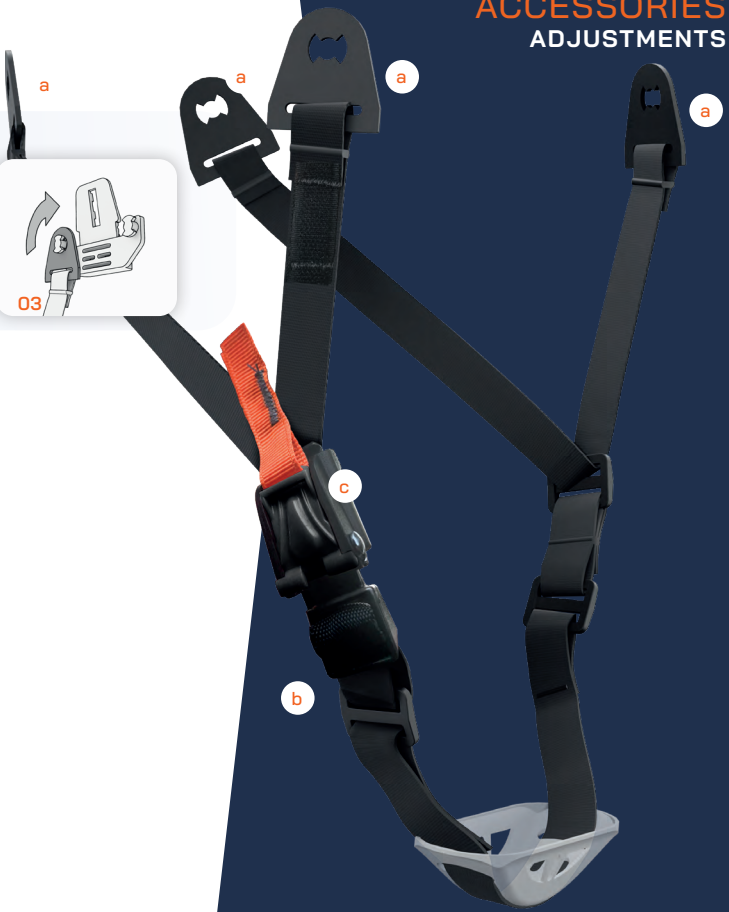


CHIN STRAP (LENGTHENING/SHORTENING)

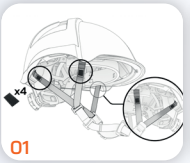
CHIN STRAP (LOCKING)





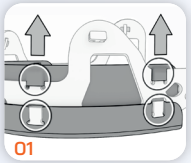


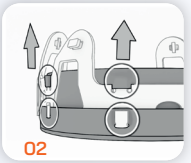
FR (FLAME RETARDANT) LATERAL PROTECTION FABRIC REF VSP-LPF1 FOR VERSION V1-BK

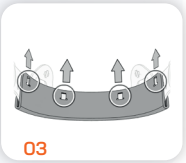


HEAD BAND REF. VSP-HBAND

If the band is worn or dirty, it can be changed.



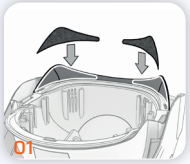




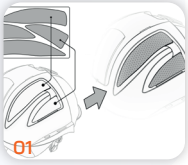
NECK PROTECTOR **REF. VA-NECK**

If you have selected the optional neck protector, the adhesive hook and loop pieces are installed as shown.

The surfaces must be clean and dry before the hook and loop stickers are applied.



REFLECTIVE TAPES **REF. VA-REFLECT**



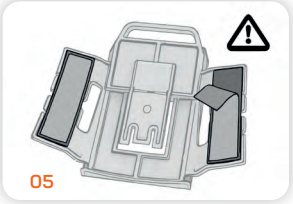
EAR MUFFS **REF. TC42AB**

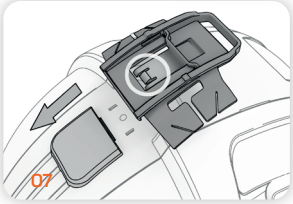
The ear muffs can only be clipped onto the version V1-BK of the helmet, which has notches for that purpose, as indicated (version V1-BK without rigid chin and lateral protection **VSP-LPP** or FR fabric lateral protection **VSP-LPF1**).

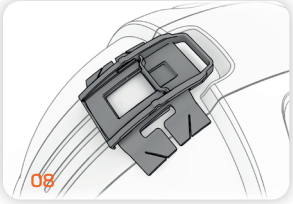
PERSONAL VOLTAGE ALARM
EXISTING SOLUTION

REF. ALADIN

VISARC can receive ALADIN headlamp (if you already have one), with a receiving area provided for that purpose.







ON-BOARD ADDITIONAL FUNCTIONS

EN

SEVERAL INNOVATIVE SOLUTIONS

NOTE
As an option, VISARC may be fitted with an independent lamp that is fully integrated into your VISARC helmet.

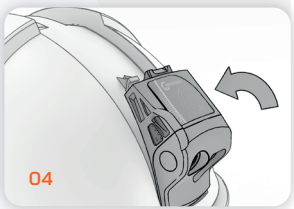
REF.	DESCRIPTION	CHARACTERISTICS
 VEA-1	**Integrated battery**	• **Double light beams (far/near lighting)** • **Battery rechargeable via USB**
 VEA-2	**Battery** **+ LEDs at the rear**	• Double light beams (far/near lighting) • Battery rechargeable via USB **+ Battery pack available** **+ Indication by 3 LEDs of presence in position on the rear, to be seen while working in poorly lit environments or at night** **+ Auxiliary battery at the rear for improved balance**
 VEA-3	**Battery** **+ LEDs at the rear** **+ voltage alarm**	• Double light beams (far/near lighting) • Battery rechargeable via USB • Battery pack available • Indication by 3 LEDs of presence in position on the rear, to be seen while working in poorly lit environments or at night • Auxiliary battery at the rear for improved balance **+ Electric field detection with "BEEP!" sound according to 5 levels of sensivity** **+ Face shield correct position detection (and Beard when there is one) with "BEEP!" sound**

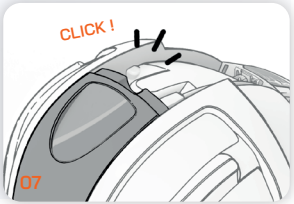
ON-BOARD ADDITIONAL FUNCTIONS

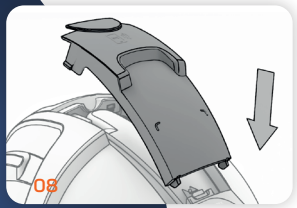
SET UP

HEADLAMP WITH AUXILIARY BATTERY

VEA-1







HEADLAMP WITH AUXILIARY BATTERY

VEA-2

VEA-3
L1 TO L5


VISARC

pentaesp.com

NOT-VISA-FR+EN-03-25