



PERSONAL PROTECTIVE EQUIPMENT

Contact Us

SHANGHAI ZIMAI SAFETY TECHNOLOGY CO., LTD.

Add: No.29, Lane 1500 Xinfu Road, Songjiang 201611, Shanghai, China

Tel No.: +86 21 6776 6378

E-mail: Sales@zmsafety.cn

Website: www.zmsafety.cn



ABOUT US

ZIMAI, as a manufacturer and supplier of Personal Protective Equipment since its founding in Shanghai, China, has now expanded its product ranges to the field of Health, Security, Emergency Response, Environmental Protection, Ergonomics, Hazard Controls and Home & Community.

Being a professional supplier of PPE, ZIMAI provides one-stop purchase services to all the customers for products ranging from head protection to foot protection, with good quality and in time delivery. In the meantime, ZIMAI dedicates its effort in product certifications, which leads the result that most products of working gloves, safety shoes, masks and Hi-Vi workwears are CE certified. And for other range of PPE, ZIMAI shares tests & certifi- cates with strategic suppliers in China.

ZIMAI values customers the most, and takes quali- ty as the priority. A Quality Management System has

already been established to provide a framework for measuring and improving the company's perfor- mance. The company has been certified to ISO 9001:2015 and ISO 14001:2015, and some of our plants also have been audited in accordance with SEDEX and BSCI, which provides our customers the security for products quality and traceability.

Based on years of experience in PPE field and the strong ability in supply chain, ZIMAI starts to intro- duce the new product ranges such as medical devices and other Health & Engineering related safety equipments to the market.

ZIMAI will always be committed to the field of life safety and safety protection!

ZIMAI Safety, Your first choice!

Your safety, Our success!



1.EN standard for Industrial protective helmets

The BS EN 397:2025 is a newly-revised standard over the BS EN 397:2012+A1:2012, and is published in a 60-page document, highlighting every guidelines and requirements for industrial safety helmets. One of the notable changes with the BS EN 397:2025 standard is the introduc- tion of two classifications for safety helmets, compared to having one classifica- tion from BS EN 397:2012+A1:2012:

Type 1 – These types of helmets are designed for protection against vertical impacts (one-direction) throughout the crown (on-crown), such as falling objects.

Type 2 – Helmets with this type of classification have more protection against multiple directions (off-crown), such as side impacts.

What are the Main Differences Between the 2012 and 2025 Standards?

The main difference between EN 397:2012 and EN 397:2025 is a revised and modernized introduction, the introduction of two helmet types (one and two), improved measurement of drop speed, and the addition of electrostatic and enhanced visibility requirements. EN 397:2012 specifies requirements for industrial safety helmets, focusing on impact and penetration protection, while EN 397:2025 introduces a more nuanced classification system and aligns more closely with modern expectations for both safety and versatility in demanding environments.

Improved Drop Speed Measurement: Defines measurement of drop speed for improved reproducibility.

Electrostatic and Visibility Requirements: Added requirements for electrostat- ic discharge and enhanced visibility.

Scope: Applies to helmets for general use in industry.

In essence, BS EN 397:2025 builds upon the foundation of BS EN 397:2012 by introducing more specific requirements, a more detailed classification system, and enhanced performance features for modern industrial environments. Industrial safety helmets that comply with standard DIN EN 397 generally meet the following safety requirements:

BINDING REQUIREMENTS	OPTIONAL REQUIREMENTS
All helmets certified according to EN 397 must meet these requirements.	A helmet certified in accordance with EN 397 may meet these requirements; they are, however, not mandatory requirements.
shock absorption, vertical	very low temperatures (-20 °C or -30 °C)
penetration resistance (against sharp and pointed objects)	very high temperatures (+150 °C)
flame resistance	electrical insulation (440 V)
chin strap attachment: chin strap releases at minimum 150N and maximum 250 N	molten metal (MM)
	lateral deformation

EN 50365 – Insulating helmets for use on low voltage installations
Protection against electric shocks and prevention of dangerous electric current passing through the head
Requirements:

- All helmets must also meet the requirements in accordance with EN 397.
- Protection against alternating voltage of up to 1000 V (AC) or direct voltage up to 1500 V (DC)
- Insulating helmets must not contain any conductive parts.
- Air vents (if available) must not allow any accidental contact with live parts.

EN 12492 – Helmets for mountaineers

Protection against hazards that may occur during activities undertaken by mountaineers

Requirements:

- Shock absorption, vertical, frontal, lateral, dorsal
- Penetration resistance
- Carrier element (chin strap releases at min. 500N)
- Strength of carrier element: Chin strap may exhibit maximum elongation of 25mm
- Carrier element effectiveness: Helmet must not slide from the head

EN 1078 – Cycling helmet

Helmets for pedal cyclists and for users of skateboards and roller skates
Requirements:

- absorbs impact from vertical force
- the effectiveness of the retention system must be ensured via a retention test
- the mechanical strength of the chin strap must be ensured — the maximum permissible elongation is 35 mm

2.EN standard for Eye protection

EN 1078 – Cycling helmet

Since 2001, EN 166:2001 has been used for CE and UKCA certification of safety eyewear in the European Union and United Kingdom. It is now being replaced by EN ISO 16321-1:2022 – a new set of international standards that will bring some significant changes to product requirements and test methods. EN ISO 16321 was officially published as the replacement for EN 166 in May 2023. The legal adoption date is 11th November 2025 and only products that meet its standards may be tested and certified by official bodies from this date onwards.

However, existing EN 166 certificates which are often used for CE/UKCA markings, will remain valid until their official expiry date up to a maximum of five years. This means, for example, that any products certified or recertified according to EN 166 by 11th November 2025 can be sold legally by manufacturers until 31 October 2029. There is no end date for distributors to have sold their EN certified products by.

Overview of the key changes

EN ISO 16321 comprises EN ISO 16321-1:2022, EN ISO 16321-2:2021 and EN ISO 16321-3:2022. It introduces numerous changes from EN 166

regarding safety features and testing requirements.

It will involve new certificates and changes in labelling, markings, instructions and packaging for all safety eyewear. The ISO standard includes new safety requirements and new optional features. In some cases, the new standard demands a higher level of protection. In others, the standards become less stringent.













The most significant changes are outlined in greater detail below:

EN Standard	ISO Standard	Summary
EN 166 Personal eye protection specifications:	EN ISO 16321-1:2022 Eye and face protection for occupational use - Part 1: General requirements	EN ISO 16321 and related parts only applies to plano and prescription glasses for occupational use or use in educational establishments. It includes face protectors intended for live-working to protect against short-circuit electric arcs, laser protectors, sports eyewear, protectors for use during medical applications, protectors for medically prescribed applications: protectors specifically intended for protection against solar radiation only or protectors intended to protect against ionising radiation.
EN 170 Ultraviolet Filters	EN ISO 16321-1:2022 Part 6.3.1	EN ISO 16321-1:2022 Part 6.3.1
EN 171 Infrared Filters	EN ISO 16321-1:2022 Part 6.3.2	EN ISO 16321-1:2022 Part 6.3.2
EN 172 Solar radiation Filters	EN ISO 16321-1:2022 Part 6.3.3	EN ISO 16321-1:2022 Part 6.3.3
EN 168 Filters for welding and related techniques	EN ISO 16321-2:2021 Eye and face protection for occupational use — Part 2: Additional requirements for protectors used during welding and related techniques	The new EN ISO 16321-2 standard is broader than EN 168 as it applies to complete eye and face protectors used in welding and similar techniques. It includes additional considerations such as frame design and materials suitable for withstanding welding heat and sparks-compatibility with respiratory equipment.
EN 1731 Mesh type eye and face protectors for industrial and non-industrial use against mechanical hazards and heat	EN ISO 16321-3:2022 Eye and face protection for occupational use — Part 3: Additional requirements for mesh protectors	Used alongside EN ISO 16321-3:2022, this standard defines the requirements for mesh eye and face protectors which protect against mechanical hazards like flying particles and debris. Notably, a key difference from the older EN 1731:2006 standard lies in the mesh design, particularly the aperture count.)
EN 167 Personal eye protection - optical test methods	EN ISO 18526-1:2020 Eye and face protection - Test methods Part 1: Geometrical optical properties	The EN 167 standard focusses on optical testing methods for eye protection lenses whereas the EN ISO 18526-1:2020 is a broader standard focusing on geometrical optical testing methods for a wider range of eye and face protection.
EN 170 Ultraviolet Filters	EN ISO 18526-2:2020 Eye and face protection — Test methods — Part 2: Physical optical properties (Filters)	The new ISO 18526-2:2020 standard provides a single source of information for testing all types of filters. It uses more advanced testing methods and promotes consistency across different types of eye and face protection.
EN 171 Infrared Filters	EN ISO 18526-3:2020 Eye and face protection — Test methods — Part 3: Physical and mechanical properties	The new ISO standard covers more test methods for both eye and face protection building upon EN 168 with a wider range of tests including specific hazards like splashes of molten metals, chemicals, or hot liquids. It also covers the complete eye protector and not just the lens.
EN 172 Solar radiation Filters	EN ISO 18526-4:2020 Eye and face protection — Test methods — Part 4: Headforms	Tests eyewear on six different head and facial sizes intended to replicate 95% of the world's population.

Comparison Of Requirements And Marking Between En 166 And Iso 16321 Standards

PROTECTION ZONES	OPTICAL TESTS	MECHANICAL TESTS	LENS MARKING	FRAME MARKING
EN 166 - 1 protection zone in the standard	EN ISO 16321 - 1 markings: - 1 only (optical clarity) - U for Ultraviolet	EN ISO 16321 - 1 markings: - HM for High Mass - C, D, E for low, medium, high velocity impact		
EN ISO 16321-1:4 protection zones in the standard and 3 sizes (S,M,L)	- R for InfraRed - G for solar glare - W for welding - K/N for coating tests	- T for extreme Temperature - K/N for coating tests - 3 for droplets - 4/5 for particles and gases - Protection against liquid projections (6) - Resistance to radiant heat (7) - 9 for Molten metals and hot solids - Chemical resistance (CH)		

3.En Standards For Chemical Protective Clothing

Symbol	Types & Standards	Properties
	Type 1 EN 943-1	Gas Tight Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles
	Type 2 EN 943-1	Non Gas Tight Suit which retain positive pressure to prevent ingress of dusts, liquids and vapours
	Type 3 EN 14605	Liquid Tight Suit which can protect against strong and directional jets of liquid chemicals. Requires a fabric barrier and sealed seams.
	Type 4 EN 14605	Spray Tight Suit which can protect against saturation of liquid chemicals, where the volume of the liquid builds up on the suit forming pools, resulting in rivulets. Requires a fabric barrier and sealed seams.
	Type 5 EN ISO13982-1	Particulate Tight Suit for protection against hazardous dry particles
	Type 6 EN 13034	Reduced Spray Tight Suit for protection against light spray and splashes of liquid chemicals, such as fine mist of droplets in the atmosphere, but no directional spray or build up of liquid on the suit
	EN 14325	Against chemicals Test methods and performance classification of chemical protective clothing materials, seams, joints and assemblages
	EN 1073-2	Against Radioactive Particles Protective clothing against radioactive contaminated particles.
	EN 1149-5	Anti-static Protection against electrostatic discharge or charge decay.
	EN 14126	Against Biohazards It contains a set of requirements and test methods to measure the protection against infective agents (indicated by a "B" with Type).
	EN ISO 14116	Against Limited Flame Spread Limited flame spread materials, material assemblies and clothing.
	EN ISO 13688	Protective clothing-general requirements

4.EN Standard for Respiratory Protection

The EN 149 standard
EN 149 is a European standard for respiratory protective devices that specifies the ability for filtering half masks to protect against particles. This safety standard specifies the minimum requirements and test methods for filtering half masks based on their ability to protect against solid and liquid aerosol particles. Respirators designed to the EN 149:2001 standard (the latest EN 149 update) shall offer varying degrees of protection against solids, water based aerosols, and oil based aerosols, based on their filter efficiency.

EN 149:2001
The latest version of BS EN 149 is EN 149:2001+A1:2009. This standard differs from the previous EN 149:1991 standard in that it is mandatory for all products tested to EN 149:2001 to provide protection against solid and liquid aerosols. The previous EN 149:1991 standard allows for the testing of respirators against solid aerosols only, as well as solid and liquid aerosols. On 1 August 2010, the EN 149:2001 standard was amended to introduce markings that specify the reusability of masks' dust filters, indicated by "R" for reusable, and "NR" for non-reusable. This standard amendment is referred to as EN 149:2001 + A1:2009. EN 149 requirements and test methods
The EN 149 requirements and test methods ensure that EN 149 certified half masks are designed to protect against airborne particles, such as dust, smoke, and aerosols. EN 149 sets several requirements that filtering half masks must be tested against to ensure they provide effective protection and performance for filtering. These requirements cover filtration efficiency, breathing resistance, and fit. Some of the test methods set by EN 149 includes the assessment of:
--Cleaning and disinfection
--Leakage
--Compatibility with skim
--Penetration of filter material
--Field of vision
--Breathing resistance

There are many more tests conducted under EN 149 to ensure the respiratory protective device offers the required level of protection against particples. The outcome of the EN 149 test methods are used to determine the allocated class.
EN 149 classes
EN 149 specifies 3 classes of protection for filtering half masks based on the filter efficiency provided by the respirator: FFP1, FFP2, and FFP3 whereby FFP3 represents respirators with the highest level of filter efficiency. These classes are assigned based on the assigned protection factor (APF), the filter penetration limit, and the inward leakage.

Class	APF(Assigned Protection Factor)	Filter penetration limit (at 95 L/min air flow)	Inward leakage
FFP1	4	Filters at least 80% of airborne particles	<22%
FFP2	10	Filters at least 94% of airborne particles	<8%
FFP3	20	Filters at least 98% of airborne particles	<2%

5.EN Standard for Hearing Protection

The EN 352 standard is a European norm for hearing protection equipment, setting requirements for earplugs, earmuffs, and other devices to protect users from excessive noise in the workplace and other environments. It is a family of standards covering different types of hearing protection, including following specific:
• EN 352-1 Hearing protectors - General requirements – Part 1: Earmuffs
• EN 352-2 Hearing protectors - General requirements – Part 2: Earplugs
• EN 352-3 Hearing protectors - General requirements – Part 3: Earmuffs attached to head protection and/or face protection devices
The standard ensures that devices are tested and certified to provide a measurable level of noise reduction, indicated by metrics like the Single Number Rating (SNR), to protect against noise-induced hearing loss.
EN 352-1:2002 - Hearing protectors - Ear muffs
Ear muffs tested in accordance with EN 352-1:2002 must be labelled with the standard number, manufacturer and model identification. Where required, there should also be indication for the orientation of the ear muff e.g. 'TOP' and/or 'LEFT' and 'RIGHT'.
Materials and construction
Any materials used to make the product that will come into contact with the skin must be non-staining and not likely to cause skin irritation, allergic reaction or other adverse effects on health. The device must be free from sharp edges to be considered safe for use, and cleaning and disinfection methods specified should not cause damage or impairment to the hearing protection.

Size and adjustability
This is tested to ensure that ear defenders are suitable for the range of head sizes designated by the manufacturer. With EN 352-1:2002 compliant products you should expect an adequate fit.
Cup rotation
Hearing protectors are measured to assess whether or not the rotation of the cups is sufficient. There must be enough rotation for wearers to adjust the device to achieve the best fit.
Headband force
There should be no excessive force on the wearer's head.
Cushion pressure
There should be no excessive pressure on the wearer's head.
Resistance to damage when dropped
For this test, the ear protection product is dropped from a specified height onto a solid steel plate. If part of the product cracks or breaks then it will fail the test.
Change in headband force
After the tests above have been completed, headbands are subjected to flexing for 1000 cycles, before being conditioned in a water bath at 50°C for 24 hours. Once complete the headband force is measured a second time. A maximum deviation between the 2 measurements determines whether it passes.
Resistance to leakage
This is specifically for ear muffs with fluid-filled cushions. A vertical load of 28±1 Newtons is applied to the cushion for 15 minutes and any leakage caused will constitute a test failure.
Ignitability
A steel rod heated to around 650°C is applied to the hearing protection device. If any part ignites or continues to glow after the removal of the rod then the device will fail the ignition test.
Minimum attenuation
The minimum attenuation value must be recorded for EN 352-1 compliant ear muffs. This is the lowest sound pressure level perceivable by the ear of 16 human test subjects with and without the hearing protection worn. It is then possible to calculate the performance of the model from these values.

EN 352-2:2002 - Hearing protectors - Ear plugs
The second section of the EN352 standards, EN 352-2:2002, specifies the constructional, design, performance and marking requirements for EN 352 compliant ear plugs. This includes specification for the sound attenuation of the ear plugs, measured in accordance with EN 24869-1. Ergonomic aspects of the ear plugs are addressed by taking into account the interaction between the wearer, device and, where possible, the working environment in which the device is likely to be used. The markings for EN 352-2 may only appear on the packaging; these include the standard number, manufacturer and model identification. In addition to these markings the packaging for EN 352-2 ear plugs should also state whether they are disposable or reusable, have fitting instructions, include the nominal size of formable plugs (ranging from 5-14mm), and custom moulded ear plugs should have LEFT/RIGHT differentiation. Ear plugs are tested for many of the properties outlined above in EN 352-1:
--Sizing and adjustability
--Materials and construction
--Resistance to damage when dropped
--Ignitability
--Minimum attenuation
There are, however, some small differences to testing methods in EN 352-2. Custom moulded ear plugs are not tested for sizing and adjustability, and with reusable ear plugs, the method of cleaning and disinfection specified is assessed to ensure it causes no significant alteration to the acoustic performance or to the material and construction properties.

352-3:2002 - Hearing protectors - Ear muffs attached to a safety helmet
The third section deals with the specific requirements for ear muffs attached to industrial safety helmets. In EN 352-3 products are tested for all properties mentioned in the EN 352-1 section, as well as specific testing methods for helmet mounted ear defenders. The markings to be included on EN 352-3 ear muffs are the standard number, manufacturer and model identification, as well as indication of orientation where required e.g. 'TOP' and/or 'LEFT' and 'RIGHT'.
EN 352 Parts 4 to 8
From part 4 onwards, the EN352 series deals with the safety requirements and testing methods for additional functions built into hearing protectors. An example of this is a 'level dependent' function, covered in EN 352-7. Level dependent ear plugs are designed to provide restoration of external sounds, while also providing attenuation of sound at high sound pressure levels. Other additional functions include active noise reduction and audio communications. You can see the full list of additional hearing protection functions covered by EN 352 below:
EN 352-4:2001 - Hearing protectors - Level dependent ear muffs (Amended 2006)
EN 352-5:2002 - Hearing protectors - Active noise reduction ear muffs (Amended 2006)
EN 352-6:2002 - Hearing protectors - Ear muffs with electrical audio input
EN 352-7:2002 - Hearing protectors - Level dependent ear plugs
EN 352-8:2008 - Hearing protectors - Entertainment audio ear muffs



CONTENTS

Head Protection

P1-P4

Basic Eyewear

P4-P9

Smart Eyewear

P10-P16

Eye Washing Station

P17

Face Protection

P18-P21

Hearing Protection

P22-P24

Disposable Products

P25-P32

Respiratory Protection

P33-P36

V-Type Safety Helmet

4 points suspension
Material: ABS/PE
Conform to CE EN 397 standard
Color available: blue, green, orange, red, white, yellow



HP001

Safety Helmet



4 points suspension
Material: ABS/PE
Conform to CE EN 397 standard
Color available: blue, green, orange, red, white, yellow



HP002

Safety Helmet

6 points nylon tape suspension
4 points chin strips
Material: PE/ ABS
Conform to CE EN 397 standard
Color available: blue, orange, red, white, yellow



HP006

Safety Helmet



6 points nylon tape suspension
4 points chin strips
Material: PE/ ABS
Conform to CE EN 397 standard
Color available: blue, orange, red, white, yellow



HP007

Safety Helmet With Ventilation

6 points suspension
Material: ABS/PE
Conform to CE EN 397 standard
Color available: blue, orange, red, white, yellow



HP003

Safety Helmet With Ventilation

6 points suspension
Material: ABS/PE
Conform to CE EN 397 standard
Color available: blue, orange, red, white, yellow



HP004

Safety Helmet

6 points nylon tape ratchet suspension with sweat band
3 points chin strips
Material: ABS
Weight:460gsm
Color: blue, orange, red, white, yellow
Conform to CE EN 397 standard



HP009

Carbon Fiber Safety Helmet

6 points nylon tape ratchet suspension with sweat band
Material: carbon fiber
Color: blue, orange, red, white, yellow



HP019

Safety Helmets Set

ABS safety helmet with 6 points nylon tape suspension
PC & steel mesh face shield and earmuff match with safety helmet
Helmet color: blue, orange, red, white, yellow



HP100

Safety Helemt Set



ABS Safety helmet with 6 points nylon tape suspension
Safety goggle mtach with safety helmet
Helmet Color: Blue, Orange, Red, White, Yellow
Conform to CE EN 397 standard



HP110

Bump Cap

ABS plastic shell with EVA pad helmet
Color: orange fluorescence fabric with with refelective stripe
Conform to CE EN812 standard



HP015

Acrylic Knitted Flanged Winter Hat



100% acrylic and knitted,
Navy blue double-layer flanged



HP018

Bump Cap

ABS plastic shell with EVA pad helmet
Color: navy blue, white, red, black fabric
Conform to CE EN812 standard



HP008

Bump Cap

ABS plastic shell with EVA pad helmet
Color: Yellow fluorescence fabric with with refelective stripe
Conform to CE EN812 standard



HP014

Suspension

6-point suspension suitable for HP007 helmet
Nylon robbin tape
Black sweat-absorbing pad



HP010

Chin Strap

Four-point black polyester chin strap
Suitable HP007 helmet



HP011

Safety Glasses

Black adjustable PA frame
Clear PC lens
Anti-fog and anti-scratch coating are available
Lens color available:clear/smoke/yellow/blue/red/green
Arms color available:black/white/blue/
red-white-blue/blue-white-red
CE & ANSI approved


2A01-C

Safety Glasses



Black PC frame and lens
Anti-fog and anti-scratch coating are available
Lens color available:clear/smoke/yellow/blue/red/green
Arms available:clear/smoke/yellow/blue/red/green/black
CE & ANSI approved


2A02-D

Safety Glasses

PC lens :2mm PC+ Rubber temples
Single-piece lens fit perfectly on different face contours
Dual-injected rubber will not peel off easily
Rubber nose pad added, comfort and protect, against slippage
Extended side shield for excellent lateral protection
Plate available in EN171 Shade 3.0 & 5.0
Anti-UV ,Anti-scratch,Anti-impact,Anti-fog,Anti-Splash coating are available
CE & ANSI approved


2A07

Safety Glasses



PC lens: 2mm nylon temples
Extended frame provides excellent coverage
Dual-injected temple with high-visibility rubber
Indirect ventilation on the frame to avoid fogging
Soft and comfortable nose pads
Anti-UV, Anti-scratch, Anti-impact, Anti-fog,
Anti-Splash coating are available
CE & ANSI approved


2A08

Safety Glasses

Clear PC frame and lens
Anti-fog and anti-scratch coating are available
Lens color available:clear/smoke/yellow/blue/red/green
Arms available:clear/smoke/yellow/blue/red/green
CE & ANSI approved


2A03

Safety Glasses

PC lens:2mm PC+Rubber temples
Anti-UV ,Anti-scratch,Anti-impact,Anti-fog,Anti-splash coating are available
Extremely lightweight and modern safety spectacle with outstanding field of vision and exceptional protection
Rubber nose pads provide comfort and protects against slippage
Dual-injected temple integrated soft rubber to resist extreme temperature
Weight: 26.8g
CE & ANSI approved


2A06

Safety Glasses

PC lens :2mm nylon temples
Extended side shield for excellent lateral protection
High-visibility rubber colour
Soft temple to fit different head profile
Pliable nose pad for extra comfort and avoid slippage
Anti-UV,Anti-scratch,Anti-impact,Anti-fog,Anti-Splash coating are available
CE & ANSI approved


2A09

Safety Glasses

PC lens :2mm PC temples
Single-piece lens fit perfectly on different face shapes
Wider lens which can be used with prescription lenses
Wrap-around frameless design for excellent comfort and protection
Full coverage spectacle
Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available
CE & ANSI approved


2A10

Safety Glasses

PC lens :2mm PC+Rubber temples
Single-piece lens that will fit most faces
Non-slip rubber temple
Rubber nose pad added comfort and protect against slippage
Extended sideshield for excellent lateral protection
Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available
CE & ANSI approved


2A11

Safety Glasses



PC lens: 2mm PC+Rubber temples
Wrap-around protective eyewear
Adjustable temple length
Pantoscopic adjustment
Wrap around rubber
Two-way changeable temple and elastic band
Non-slip rubber temple
Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available


2A12

Safety Glasses

PC lens :2mm PC+Rubber temples
No metal parts
Modern safety glasses with exceptional protection
Dual-injected temple integrated soft rubber to resist extreme temperature
Features with soft nose bridge for comfort
Extended sideshield for excellent lateral protection
Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available


2A15

Safety Glasses



PC lens :2mm nylon temples
Wrap-around protective eyewear combining fashion, fit and function
High tech modern design with molded sideshields.
Molded-in nose bridge provide sun compromised comfort and fit single-piece lens that will fit most faces.
Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available
CE & ANSI approved


2A16

Safety Glasses

PC lens :2mm nylon temples
Wrap-around protective eyewear combining fashion, fit and function
Adjustable temple length- enables wearers to fit the eyewear to their facial profile
Pantoscopic adjustment- allow lens angle modification
One piece polycarbonate lens with integrated sideshield
Features with soft nose bridge for comfort
Non-slip rubber temple
Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available
CE & ANSI approved


2A12

Safety Glasses

PC lens :2mm nylon temples
Wrap-around protective eyewear combining fashion, fit and function
Adjustable temple length-enables wearers to fit the eyewear to their facial profile
Pantoscopic adjustment- allow lens angle modification
One piece polycarbonate lens with integrated sideshield
Features with soft nose bridge for comfort
Non-slip rubber temple
Comply Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available
CE & ANSI approved


2A14

Safety Glasses

PC lens :2mm PC+Rubber temples
Wrap-around protective eyewear
Wrap around rubber ensure the glasses fit securely on the nose and keep out dust, droplets
Two-way changeable temple and elastic band
Non-slip rubber temple
Anti-UV, Anti-scratch, Anti-impact, Anti-fog, Anti-Splash coating are available


2A17

Safety Goggles

Clear PC lens and PC frames
Anti-fog and anti-scratch coating are available
Elastic tape color available: white/black
CE & ANSI approved


2G01

Safety Goggles

Clear PC lens and PC frames
Anti-fog and anti-scratch coating are available
Elastic tape color available:white/black
CE & ANSI approved


2G02

Welding Goggles



PVC frame
Clear and black PVC lens


2G03

Smart AI Camera Eyewear



Core Specifications
Main chip: JL7018F (Stereo + ENC Noise Cancellation)
Camera: 5MP (GC05A2)
Connectivity: WiFi 5GHz
Bluetooth 5.0 (10m range)
Battery: 230mAh (4h playback, 2h charge)
Audio
Speaker: 0.5W (16Ω)
SNR: -89dBV, Distortion <1%
Dual-mic noise cancellation
Power
Input: 5V ±0.25V
Standby: ≤5μA


AI17DV

Welding Goggles

PVC frame
Clear and black PVC lens


2G04

Swimming Goggles

PC lens with UV protection
Waterproof and anti-fog


2G07

Smart AI Video Eyewear

Core Features:
HD hands-free camera: 720P recording & photography with image transfer
Dual control system: tactile buttons + intuitive touch panel + mobile app integration
Power & Performance:
260mAh high-density battery
15hrs continuous use / 7+ day standby
Magnetic fast-charging
Ultra-low power W20 processor
Design excellence:
featherlight 42g frame (aircraft-grade TP material)
Interchangeable lenses:
Blue light filtering
Polarized sunglasses


AI21DV

Smart AI Video Eyewear

Dual-Chip Solution:Primary: JL7018F with Stereo ENC
Secondary: Allwinner V821 co-processor
Imaging & Connectivity
5MP Camera (GC05A2) with:Anti-shake stabilization
Real-time AI vision processing
Dual-band 5GHz WiFi + BT 5.0 (10m+ range)
Advanced Audio
Professional acoustic system:
16Ω speaker (0.5W/0.8W peak)
Dual-mic array (-42dB sensitivity)
<-89dBV noise floor
<1% THD across 20Hz-20kHz
Efficient Power Design
230mAh battery with:4hr playback @80% volume
≤2hr fast charging (5V±0.25V)
Ultra-low 5μA standby
Key Metrics
Operational: 3.3-4.2V
Camera current: ≤210mA



AI22DV



Bluetooth Smart AI Video Eyewear

Core Imaging Performance
2K/30fps Video: 2048×1152 (H.264/MP4)
8MP Still Camera: 3840×2160 (JPG)
90° Wide-Angle Lens with 3D NR
Dual-Mode Capture: continuous recording + photo snap
Smart Connectivity
Extended Bluetooth 5.0 (15m stable)
Dual Storage Options:256GB expandable (TF C10)
Direct USB-C transfer (OTG/PC-CAM)
Power Management
400mAh Fast-Charge Battery:2hr full charge (Type-C 5V)
8hr music/48hr talk time
Industry-leading 180d standby
Ergonomic Design
Ultra-Light Frame: 64g (PC construction)
Dual Control Interface:Touch-sensitive panels
Physical buttons
All-Day Comfort: 161×176×47mm



AI24DV



Smart AI Video Eyewear

Imaging System
2K/30fps video (2048×1152, H.264/MP4)
8MP photos (3840×2160 JPG)
100° wide-angle + 3D noise reduction
Key Specs
Storage: supports 256GB microSD
Connectivity: bluetooth 5.0 (15m range)
Battery: 400mAh (8hr music/48hr calls)
Charging: 5V Type-C (1-2hrs fast charge)



AI23DV

WiFi Smart AI Video Eyewear

Core Imaging Performance
2K/30fps Video: 2048×1152 (H.264/MP4)
8MP Still Camera: 3840×2160 (JPG)
90° Wide-Angle Lens with 3D NR
Dual-Mode Capture: Continuous recording + photo snap
Smart Connectivity
Extended Bluetooth 5.0 (15m stable)
Dual Storage Options:256GB expandable (TF C10)
Direct USB-C transfer (OTG/PC-CAM)
Power Management
400mAh Fast-Charge Battery:
→ 2hr full charge (Type-C 5V)
→ 8hr music/48hr talk time
→ Industry-leading 180d standby
Ergonomic Design
Ultra-Light Frame: 64g (PC construction)
Dual Control Interface:
• Touch-sensitive panels
• Physical buttons
All-Day Comfort: 161×176×47mm



AI25DV

Smart AI Sport Bluetooth Eyewear



Frame material: TR
Lens material: UV380 PC
Lens color: true blue / true red / gray
Nose pad material: comfort rubber
Packaging: EVA case + colorful box
Lens available: full mirror coating, polarized gray lens, polarized full mirror coating, photochromic + full mirror coated lens



AI01

Smart AI Sport Bluetooth Eyewear



Frame Material: TR
Lens Material: UV380 PC
Lens Color: Gray
Nose Pad Material: Comfort Rubber
Packaging: EVA Case + colorful Box
Lens available: full mirror coating, polarized gray lens, polarized full mirror coating, photochromic + full mirror coated lens



AI03

Smart AI Sport Bluetooth Eyewear

Frame material: TR
Lens material: UV380 PC
Lens color: true blue
Nose pad material: comfort rubber
Packaging: EVA case + colorful box
Lens available: Full Mirror Coating, Polarized Gray Lens, Polarized Full Mirror Coating, Photochromic + Full Mirror Coated Lens



AI02

Smart AI Sport Bluetooth Eyewear

Frame material: TR
Lens material: UV380 PC
Lens color: allochroic gold, allochroic ice blue
Nose pad material: comfort rubber
Packaging: EVA case + colorful box
Lens available: full Mirror coating, polarized gray lens, polarized full mirror coating, photochromic + full mirror coated lens



AI04

Smart AI Optical Bluetooth Eyewear



Frame material: TR90+ metal
Lens material: PC without myopia
Frame color: gray
Packaging: box



AI07

Smart AI Optical Bluetooth Eyewear

Frame material: TR90+ metal
Lens material: PC without myopia
Frame color: silver + black
Packaging: box



AI08

Smart AI Bluetooth Eyewear



Wireless
Chip: AB8925B (Stereo ENC)
Range: ≥10m • Freq: 2.402-2.480GHz
Class 2 (4dBm max)
Audio
SNR: -89dBV • THD: <1% (20Hz-20kHz)
15.4mm speaker (20Ω)
0.5W output (0.8W peak)
Power
100mAh battery (3.7V)
5V charging (≤2hrs)
4hr playback @80% vol
Mic
Sensitivity: -42±3dB
Low-voltage alert: 3.0V



AI16

Smart AI Bluetooth Eyewear

Core
Chip: 7003D
Battery: 110mAh
Charging: Type-C
Connectivity
BT range: 10m
Control: button operation



AI19

Wall Mounted Eye Washing Basin

Stainless steel with yellow ABS powder coating
Working pressure: 0.2~0.4 Mpa
Diameter of eye wash basin: 250mm
Applicable for narrow spaces, easy and quick to install.



2E01

Eye Washing Station



Stainless steel with yellow ABS powder coating
Working pressure: 0.2~0.4 Mpa
Diameter of eye wash basin: 250mm
Height of station: 1050mm
Applicable for narrow spaces, easy and quick to install.



2E02

Eye Washing Station With Shower

Stainless steel with yellow ABS powder coating
Working pressure: 0.2~0.4 Mpa
Diameter of eye wash basin: 250mm
Shower height: 2150mm
Eye washing station height: 1050mm



2E03

Portable Eye Wash Station

Green polyethylene material
Function: eye and face washing
Capacity: 8 gallons (30L)
Usage time: ≥ 15 minutes
Flow rate: ≥ 1.5 liters/minute
Applicable environment: 0 ~ 40 °C (Insulation and heat insulation cover can be added for outdoor use)
Can be equipped with mobile trolley, wastewater collection tank and insulation and heat insulation cover



2E04

Welding Mask

High quality PP material welding mask
Glass size: 108×50mm
Hand held type;
Protect your eyes against UV and IR rays;
Applied for gas welding, brazing and torch cutting work
Conform to CE EN175 standard



M001

Welding Mask



High quality PP material welding mask
Glass size: 108×50mm
Hand held type;
Protect your eyes against UV and IR rays;
Applied for gas welding, brazing and torch cutting work



M002

Welding Mask

High quality PP material welding mask
Glass size: 108×50mm
Hand held type;
Protect your eyes against UV and IR rays;
Applied for gas welding, brazing and torch cutting work



M003

Welding Mask

High quality PP material welding mask
Glass size: 110×50mm
Hand held type;
Protect your eyes against UV and IR rays;
Applied for gas welding, brazing and torch cutting work
Conform to CE EN175 standard



M011

Safety Face Shield

HDPE head shell
Face shield material: PC, PVC, steel mesh
With ratchet adjustment suspension
Conform to CE EN166 standard



M004

Medical Face Shield



Material: PET + sponge + elastic band
Function: anti-splash, dustproof and anti-fog
Product size: 33*22cm



M005

Face Shield

Bracket material: ABS material
Face shield material: PVC



M008

Safety Face Shield



HDPE head shell
Face shield material: steel mesh
Ratchet adjustment suspension
Earmuff can be equipped
Conform to CE EN166 & EN1731 standard



M009

Safety Face Shield

Transparent PC material
Anti-scratch, anti-fog
Transparent plastic frame



M006

Semi-Closed Safety Face Shield

Bracket material: ABS
Face shield material: plexiglass in thickness 1.9mm



M007

Safety Face Shield

HDPE head shell
Face shield material: PC
Ratchet adjustment suspension
Earmuff can be equipped
Conform to CE EN166 & EN1731 standard



M010

PC Face Shield

Material: PC
Thickness: 1.0mm
Size: 39.5*20cm



M500

Steel Mesh Face Shield

Material: Mesh steel
Size: 38.5*20cm



M520

Steel mesh visor



ABS bracket attached to helmet



M540

PVC VISOR

Color:black
Size:20x39.5cm
Thickness:1mm
Aluminum edge



M540

Automatic Welding Mask

Power supply: Solar cells
ABS shell
Automatic light-adjusting lens with size 27*20cm



M400

Ear Muff For Safety Helmet

Durable steel headband
An unique combination with helmet
Soft foam earcup cushions
Internal acoustic foam pad
Self-aligning ABS earcups
Universal size for most users
SNR: 23dB
CE EN352-1



EM001

Foldway Ear Muff



Comfortable padded headband
Soft foam earcup cushions
Internal acoustic foam pad
Self-aligning ABS earcups
Universal size for most users
SNR: 29dB
CE EN352-1



EM002

Ear Muff

Durable steel headband
Comfortable padded headband
Soft foam earcup cushions
Internal acoustic foam pad
Self-aligning ABS earcups
Universal size for most users
SNR: 29dB
CE EN352-1



EM004

Ear Muff

Durable steel headband
Comfortable padded headband
Soft foam earcup cushions
Internal acoustic foam pad
Self-aligning ABS earcups
Universal size for most users
SNR: 29dB
CE EN352-1



EM006

Ear Muff

Reinforced POM headband and ABS cups
Soft padded head cushion
Soft foam earcup cushions
Internal acoustic foam pad
Universal size for most users
SNR: 27dB
CE EN352-1


EM007

Ear Muff



Steel wire encased in TPE soft rubber headband
Ultra-Soft foam earcup cushions
Self-aligning ABS earcups
Universal size for most users
SNR: 37dB
CE EN352-1


EM008

Ear Plugs

PU foam material
Cord length 70cm
Size: 13*24mm
SNR 36dB
CE EN352-2


E001L

Ear Plugs



Silicon material with Christmas tree shape
SNR: 27DB
CE EN352-2


EP002

Multifunction Electronic Ear Muff

Noise reduction rating: The sound source will disappear by itself when the surrounding sound reaches over 82dB. Amplify low-frequency sound and reduce background noise. Designed with high-noise resistant shell and comfortable ear cups that has spacious interior space, effectively prevents low-frequency noise.
AUX input is able to connect to MP3 or the other audio devices.
Charge indicator at the USB port indicates charging status.
Stereo noise reduction is available automatically, enables you to hear surrounding sounds.
Ear muff is equipped with volume control button, with microphone optional.
Ear muff features an automatic shutdown power saving that turns off the headset after two hours if no function is used and the settings being saved before shut-off and warning signal sounds when power is low.
CE EN352


EM009

Ear Plugs

PU foam material
Size: 13*24mm
SNR 36dB
CE EN352-2


EP001

Ear Plugs

Silicon material with Christmas tree shape
Cord length 70cm
SNR: 27DB
CE EN352-2


E002L

Ear Plugs

ABS head band
Natural silicone earplugs
SNR: 27dB
CE EN352-2


EP006

Face Mask

Cup mould face mask
Standard: EN149:2001+A1:2009
FFP1 NR, FFP2 NR



RC100

Valved Face Mask



Cup mould face mask with exhalation valve
Standard: EN149:2001+A1:2009
FFP1 NR, FFP2 NR



RC100V

Active Carbon Face Mask

Active carbon cup mould face mask
Standard: EN149:2001+A1:2009
FFP1 NR D, FFP2 NR D



RAC600

Valved Active Carbon Face Mask



Active carbon cup mould face mask with exhalation valve
Standard: EN149:2001+A1:2009
FFP1 NR D, FFP2 NR D



RAC600V

Face Mask

Cup mould face mask
Standard: EN149:2001+A1:2009
FFP1 NR D, FFP2 NR D



RC500

Valved Face Mask

Cup mould face mask with exhalation valve
Standard: EN149:2001+A1:2009
FFP1 NR D, FFP2 NR D



RC500V

Vertical Fold Flat Face Mask

Vertical fold flat face mask
Standard: EN149:2001+A1:2009
FFP1 NR, FFP2 NR



RF300

Valved Vertical Fold Flat Face Mask

Vertical fold flat face mask with exhalation valve
Standard: EN149:2001+A1:2009
FFP1 NR, FFP2 NR



RF300V

Valved Horizontal Fold Flat Face Mask

Horizontal fold flat face mask with exhalation valve
Standard: EN149:2001+A1:2009
FFP1 NR, FFP2 NR



RF310V

Active Carbon Horizontal Fold Flat Face Mask



Active carbon horizontal fold flat face mask
Standard: EN149:2001+A1:2009
FFP1 NR, FFP2 NR



RAF410

Valved Active Carbon Horizontal Fold Flat Face Mask

Active carbon horizontal fold flat face mask with exhalation valve
Standard: EN149:2001+A1:2009
FFP1 NR, FFP2 NR



RAF410V

Fold Flat Face Mask

Fold flat face mask
Standard: EN149:2001+A1:2009 FFP1 NR, FFP2 NR



RF500

Face Mask

Cup mould face mask
Standard: NIOSH 95



SS9001

Valved Face Mask



Cup mould face mask with exhalation valve
Standard: NIOSH 95



SS9001V

Vertical Fold Flat Face Mask

Vertical fold flat face mask
Standard: NIOSH 95



SS6001

Valved Vertical Fold Flat Face Mask

Vertical fold flat face mask with exhalation valve
Standard: NIOSH 95



SS6001V

Valved Active Carbon Face Mask

Active carbon cup mould face mask with exhalation valve,
Full foam seal inside
Standard: EN149:2001+A1:2009
FFP3 NR


RC105V

Valved Face Mask



Face mask with exhalation valve,
Full foam seal inside
Standard: EN149:2001+A1:2009
FFP3 NR


RC104V

Half Face Respirator

Silicone faceseal
Adjustable head harness
It can only be used when combined with filter.
CE approved


HM001

Full Face Respirator



Silicone faceseal
6-point adjustable silicone harness
Wide high PC lens provide good view
It can only be used when combined with filter
CE approved


FM001

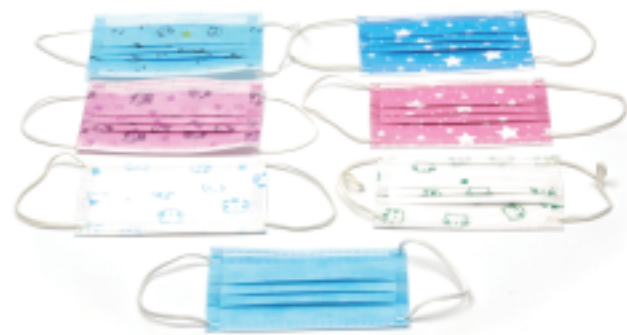
3 Ply Disposable Non Woven Mask

3 Ply disposable non woven mask
Adult size


DM001

3 Ply Disposable Non Woven Mask

3 Ply disposable non woven mask
Children's size


DM002

Activated Carbon Filter

Protecting against organic vapor odors and oily and non-oily particulate.


FF600

ABEK-1 Respirator Cartridges

Protecting against organic gases, inorganic gases, acidic gases and ammonia gas


FF100

Organic Vapor Respirator Cartridges

Protecting against organic vapor gases



FF110

A1 Organic Vapor Respirator Cartridges



Protecting against organic vapor gases



FF130

AX1 Organic Vapor/ Methanal Gas Respirator Cartridge

Protecting against H₂S₁ gas



FF170

H₂S₁ Gas Respirator Cartridge



Protecting against H₂S₁ gas



FF180

A1E1 Organic/Acidic Gas Respirator Cartridge

Protecting against organic gases and acidic gases



FF150

K1 Ammonia/Methylamine Gas Respirator Cartridge

Protecting against Ammonia/Methylamine gases



FF160

P2 Filter

Protecting against non-oily particulate
CE approved



FF610

Filter Cover



FF800

Bouffant Cap

Non woven bouffant cap
Size available: 19 inch, 21 inch
Color available: white, blue, red, yellow, green, pink



DP001

CPE Shoe Cover



Disposable blue CPE shoe cover
Universal size



DSC001

Isolation Gown

Disposable isolation gown with stretch cotton sleeve cuff
Fabric: blue 40gsm SMS
Weight: 40gsm



DA002

Isolation Gown



Isolation gown with knit wrist cuff
Fabric: 20PP+12PE



DA003

PP Shoe Cover

Disposable blue PP non woven shoe cover
Universal size



DSC003

PE Disposable Sleeve

Disposable blue PE sleeve
Universal size



DS002

Disposable Apron

Disposable PE apron
Adult size



DA004

PP Coverall

Disposable white PP non woven coverall with hood
Weight available: 40gsm, 45gsm, 50gsm, 55gsm, 60gsm
Size range: S-3XL



DC001

PP Coverall

Disposable blue PP non woven coverall with hold
Weight available: 40gsm,45gsm,50gsm, 55gsm, 60gsm
Size range: S-3XL


DC002

Type 5/Type 6 Coverall



Type 5/Type 6 microporous coverall
Material:microporous polypropylene + polyethylene
Weight: 55gsm
Size: S-5XL
CE Approved


DC004

Type 5 /Type 6 Coverall

Flash spun non-woven fabric type 5/6 protective clothing
Material: 45gsm HDPE non-woven fabric
Nylon zipper
Rubberised elastic cuffs and ankles
Size: S-5XL
CE Approved


TC500

Type 5B/ Type 6B Coverall



Flash spun Non-woven fabric type 5B/6B Protective clothing
Material: 45gsm HDPE Non-woven fabric
Nylon zipper
Rubberised elastic cuffs and ankles
Blue color tape hot melt on all stitchings
Size: S-5XL
CE Approved


TC400

Type 4/Type 5/Type 6 Coverall

Type4/Type 5/Type 6 microporous coverall
Heat sealed tape seam
Material: SF
Size: S-5XL
CE Approved


DC005

Type 3/Type 4/Type 5/Type 6 Coverall

Material: 100% polypropylene + polyethylene film
Size: S-5XL
CE Approved


DC006

Type 3B/4B/5B/6B Coverall

Flash spun non-woven fabric type 3B/4B/5B/6B
Protective clothing
Material: 87gsm HDPE flash spun Non-woven fabric with PE coating
Nylon zipper
Rubberised elastic cuffs and ankles
Yellow color tape hot melt on all stitchings Self adhesive strom flap for secure closure
Size: S-5XL
CE Approved


TC300