



PROTECTION SYSTEM

CBARN

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Hancom Lifecare innovative products protect, support and save lives.

Through its three product segments - Masks, Respirators, and Protective Clothing - Hancom Lifecare Inc. provides a comprehensive line of products in the area of the military, homeland security, law enforcement, fire service and chemical & maritime industries. The company specializes in the manufacture of Personal Protective Equipment(PPE) such as CBRN & Anti-riot Gas Masks and Filters, Air-Purifying Respirators, Chemical Protective Suit(CPS), Self-Contained Breathing Apparatus(SCBA), Firefighting Garment and Helmet, and Heat Proximity Clothing.

History

1971 - 1990

Establishing the foundation

- 1971 Founded as SanCheong.
- 1974 Registered as an official defense supplier.
- 1984 Developed Korea's first SCBA.

1991 - 2000

Developing Gas masks

- 1991 Introduced industrial gas masks.
- 1993 Launched military gas masks.
- 1998 Released civilian gas masks meeting Korean standards.

2001 - 2018

Leaping forward to CBRN PPE company

- 2003 Accredited to ISO 9001 standard.
- 2008 Designated as a defense company & supplied K-1 gas masks.
- 2010 Appointed to develop the next-generation gas mask.
- 2011 Supplied special protective suits to the Korean army.
- 2014 K10 gas mask fulfilled NATO Triptych requirements.
- Established HANCOM SPI, a manufacturing subsidiary in the Philippines
- 2016 Started shipping new K5 gas masks to the Korean armed forces.
- 2017 Merged into HANCOM Group.
- 2018 SCBA SCA10 won the Presidential Prize.

2019 - 2025

Expanding to Global Safety & Defense

- 2019 Changed company name to Hancom Lifecare Inc.
- 2020 Acquired Hancom Healthcare, expanding PPE production.
- 2021 Listed on KOSPI and entered the military MILES business.
- 2022 Selected to operate the National Quarantine Material Stockpile.
- 2023 Secured contract for Ground Laser Target Designator.
- 2024 Launched EV fire suppression solutions.
- 2025 Secured major global defense contracts (US, PH) & partnerships.

K11

CBRN GAS MASK

TECHNICAL SPECIFICATIONS

Polycarbonate visor with hardcoating

Material Mask: Butyl Rubber

Weight 580 g(without canister)

Field of vision 85 %(EN136)

Available sizes Standard(one size fits most)

PERFORMANCE

+ Protection against CBRN & anti-riot agents

+ Breathing resistance (Face-piece)

Airflow	30 L/min	95 L/min	160 L/min
Inhalation	30 Pa	90 Pa	190 Pa
Exhalation	260 Pa (at 160 L/min)		

Certification: CE (EN 136:1998+AC:2003)

With its panoramic visor, non-fogging construction, and 2-sided filter connection, the *K11* offers the highest level of protection and visibility in the most hazardous conditions.

K11 is also designed for comfort and ease of use, with a 6-point head harness for perfect tightness and a built-in voice diaphragm for easy communication. It also features a vision correction kit for mounting precision lenses and a self-locking high flow hydration system to keep you hydrated in the high-intensity operations.

KEY FEATURES



Interchangeable Canister

- + Interchangeable on either left or right side of face-piece
- + Adapts to user's physical condition and operational preference
- + NATO-standard DIN40 thread connection
- + Quick and easy canister replacement in the field



Quick Release 6-Point Head Harness

- + 6-point harness ensures airtight seal and fit
- + Quick release buckle system for rapid donning/doffing
- + Evenly distributes pressure for long-term comfort
- + Adjustable for various head sizes and helmet compatibility



Exhalation Valve & Cover

- + Exhalation valve at the bottom prevents reverse flow of toxic materials
- + Helps moisture drain quickly for comfort
- + Detachable cover allows easy cleaning and maintenance
- + Reliable performance in harsh conditions



Hydration System

- + Self-locking high flow hydration system
- + Easy operation with lever mechanism
- + Compatible with canteens & backpack hydration systems
- + No seal compromise during drinking



Built-in Voice Diaphragm

- + Ensures clear communication for short-distance interactions
- + No external devices required for speech transmission
- + Natural voice projection without compromising seal
- + Essential for tactical coordination



Detachable Inner Mask

- + Non-fogging construction for maximum visibility
- + Designed for easy cleaning and quick maintenance
- + Extends service life and maintains hygiene
- + Field-replaceable for continuous operations



Hard-coated Panoramic visor with maximum field of vision



Communication module & Vision Correction module

K10

CBRN GAS MASK

TECHNICAL SPECIFICATIONS

Polyurethane visor

Material Mask: Butyl Rubber

Weight 445 g (face-piece, size M)

VFS 101- NIOSH CBRN APR

(VisionFieldScore) standard

Available sizes S, M, L, XL

PERFORMANCE

- + Protection against CBRN & anti-riot agent
- + Breathing resistance (Face-piece & Canister)
- Tested per NATO Triptych D103

Airflow	30 L/min	50 L/min	80 L/min
Inhalation	98 Pa	167 Pa	265 Pa
Exhalation	49 Pa	78 Pa	108 Pa

Certification: CE (PPE Regulation 2016/425/EU
- Module B: Certificate CE 790617)

◆ NATO VALIDATION HISTORY (TNO / proqares)

Independent system-level testing by proqares (tno), netherlands | Meets all relevant requirements of nato triptych ac/225-d103 (revised) | Proven baseline for modern aep-73 environments.

With its revolutionary dual canister system, single panoramic visor, and NATO-validated protection, the *K10* offers superior operational performance and comfort in the most hazardous CBRN environments.

K10 is a variant of K5 (next-generation standard issue gas mask for Korea) and is Engineered to exceed the requirements of NATO Triptych and to be suited to future battlefield environments. The dual canister system minimizes breathing resistance, while the low-profile design prevents snagging and enhances weapon compatibility.

KEY FEATURES



Dual Canister System

- + Reduced inhalation resistance by 50 % compared to single canister
- + Low-profile design prevents snagging and interference with weapon stocks
- + Compatible with single CBRN canister with DIN 40 thread
- + NATO Triptych D103 compliant
- + Perfect balance during operation



Single Panoramic Visor

- + Wide field of vision with enhanced situational awareness
- + Flexible, scratch and impact resistant
- + Integration with gun sights and night vision equipment
- + Maximum visibility for tactical operations



Hydration System

- + Self-locking high flow drinking system
- + Easy operation with external lever
- + Compatible with canteens & backpack hydration systems
- + Maintains seal integrity during hydration



6-Point Head Harness

- + Aramid material for structural integrity under heat exposure
- + Quick-release buckle system for rapid donning
- + Mesh harness distributes pressure evenly
- + Ensures perfect fit and leak-tightness
- + Direct microphone integration



Communication Module

- + External communication port beneath exhalation valve
- + Compatible with voice amplifier and radio communication cables
- + Clear speech transmission without compromising mask seal
- + Internal communication port for direct microphone integration



Compatibility

- + Compatible with any military helmets
- + Improved integration with corrective vision systems
- + Fits with tactical gear and body armor
- + Ergonomic design based on 3,000+ soldier scan data

K3

CBRN GAS MASK

TECHNICAL SPECIFICATIONS

Polycarbonate lens

Material Mask: Butyl Rubber

Weight 520 g (face-piece)

Field of vision > 75% (EN136)

Available sizes M, L

PERFORMANCE

+ Protection against CBRN & anti-riot agents

+ Breathing resistance (Face-piece)

Airflow	30 L/min	50 L/min	80 L/min
Inhalation	128 Pa	226 Pa	392 Pa
Exhalation	69 Pa	88 Pa	108 Pa

Certification: CE(EN136:1998+AC:2003)

Current used in 12 countries

◆ NATO VALIDATION HISTORY (TNO / proqares)

Independent system-level testing by proqares (tno), netherlands | Meets all relevant requirements of nato triptych ac/225-d103 (revised) | Proven baseline for modern aep-73 environments.

Designed for military and law enforcement operations, the *K3* provides reliable CBRN protection with exceptional economy and ease of use. Proven in 12 countries across East Asia and Middle East.

K3 is intended for military and law enforcement applications, designed to protect the face, eyes, and respiratory organs from CBRN agents as well as tear gases. With Streamlined design and durable anti-CBRN materials, *K3* delivers outstanding operational capability and reliability with economical maintenance and operating costs.

KEY FEATURES



Interchangeable Canister

- + Dual-sided canister mounting
- + Adapts to user biomechanics & tactics
- + NATO-standard 40 mm(DIN 40) thread



Economic Operating Cost

- + Minimized parts for lower Life Cycle Cost
- + Highly durable, CBRN-resistant materials
- + Extended service life reduces expenses



Hydration System

- + Fail-safe, self-locking drinking tube
- + Intuitive lever for quick operation
- + Compatible with canteens & hydration packs
- + Zero seal compromise during fluid intake



Compatibility

- + Compatible with standard CBRN protective suits
- + Low-profile design fits helmets & tactical gear
- + Easily integrates with PAPR systems via standard hoses
- + Compact design for easy storage in carrying bags



Communication

- + Short-range communication without electronics
- + External comm port in front of exhalation valve
- + Fully compatible with voice amplifiers
- + Maintains protection integrity while speaking



Durability & Reliability

- + Combat-proven in over 12 countries
- + Field-tested in extreme global climates
- + Highly resistant to harsh environments
- + Exceptional long-term storage stability

K10C

CBRN DUAL CANISTER

The K10C dual canister system delivers exceptional CBRN protection with minimized breathing resistance through innovative twin & thin design. Compliant with NATO Triptych D103 and optimized for use with K10 gas mask.

Providing comprehensive protection against chemical warfare agents, anti-riot agents, the K10C ensures operational superiority with its low-profile design and balanced weight distribution.



KEY FEATURES

- + Twin & thin canister for minimized breathing resistance
- + Low profile design for tactical advantage
- + Protection against warfare agents, anti-riot agents
- + NATO Triptych D103 compliant
- + Tested by ProQares, TNO, Netherlands
- + Most suitable for K10 gas mask

TECHNICAL SPECIFICATIONS

Weight	300 g per set (2 pcs, 150 g each, ± 5 g)
Dimension	100 × 40 mm (without thread)
Thread	40 mm NATO STANAG 4155 and EN148-1
Material	Body: MPPPO plastic
Shelf life	10 years when sealed
Compliance	NATO Triptych D103 (with K10 mask)

PERFORMANCE HIGHLIGHTS

+ NATO Triptych D103 Test Results (ProQares, TNO)

Agent Category	Result	Remarks
NaCl aerosol efficiency	PASS	Before/After drum test
Paraffin aerosol efficiency	PASS	Before/after drum test
Hydrogen cyanide (HCN)	PASS	-
Cyanogen chloride (CICN)	PASS	-
Sarin (GB)	PASS	< 40 µg
Chloropicrin adsorption	PASS	-
Water repellency	PASS	-

K3C

CBRN CANISTER

The K3C CBRN canister delivers reliable protection against chemical warfare agents and toxic industrial chemicals with proven performance validated by ProQares, TNO, Netherlands according to NATO Triptych D103 standards.

Designed for economic operation with 10-year shelf life and NATO-standard compatibility, the K3C provides comprehensive CBRN protection for military and law enforcement applications worldwide.



KEY FEATURES

- + NATO Triptych D103 validated protection
- + Comprehensive CBRN agent filtration
- + NATO-standard 40mm thread connection
- + Lightweight at 300 g
- + Compatible with K3 and other NATO-standard masks

TECHNICAL SPECIFICATIONS

Weight	280 g
Dimension	115 × 59 mm (without thread)
Thread	40mm NATO STANAG 4155 and EN148-1
Material	Body: MPPO plastic
Shelf life	10 years when sealed
Compliance	NATO Triptych D103 (ProQares, TNO)

PROTECTION PERFORMANCE

+ Tested by ProQares, TNO, Netherlands (NATO Triptych D103)

Agent Category	Protection Time	Concentration (mg/m ³)
Hydrogen cyanide (HCN)	30 min	2,050
Cyanogen chloride (ClCN)	50 min	2,080
Sarin (GB)	-	< 40 µg, 525
Sarin/Cyanogen chloride	59 min	985 (GB), 2,090 (ClCN)
Sarin/Hydrogen cyanide	34 min	985 (GB), 2,000 (HCN)
Chloropicrin adsorption	63 min	5,020
Water repellency	PASS	QSTAG 838 method 23

※ Protection time is highly dependent on wearer's breathing capacity and environmental factors including concentration of toxic gases, ambient temperature and humidity.

SCA 240N

POWERED AIR PURIFYING RESPIRATOR
(PAPR)

TECHNICAL SPECIFICATIONS

<i>Material</i>	Body: MPP0 plastic
<i>Total weight</i>	1,100 g (w/o canisters)
<i>Dimension</i>	220 × 210 × 105 mm
<i>Operating Temperature</i>	-20 °C to +43 °C

BATTERY & PERFORMANCE

Component	Specification	Value
Battery Type	Ni-MH	4.8 V / 240 g
Service Time	Continuous	> 4 hours
Charging Time	Full charge	< 6 hours
Recharge Cycles	Battery life	300-400 times
Airflow(with canister)	Operational	85-100 L/min
Motor Service Life	Expected	5,000 hours

Elevate your CBRN defense capability with the SCA240N, a ruggedized Powered Air Purifying Respirator designed to transform standard gas masks into high-performance positive pressure systems. Delivers a consistent 85 to 100 L/min of clean air, virtually eliminating breathing resistance and reducing physiological burden during high-intensity operations.

The radial blower forces filtered air into the mask, allowing operators to breathe naturally without lung strain while maintaining positive pressure protection for maximum safety factor.

KEY FEATURES



Active Air Supply System

- + PAPR Belt System
- + Powerful radial blower forces 85-100 L/min filtered air into mask
- + Completely eliminates breathing resistance
- + Natural breathing without lung strain during extended missions
- + Reduces physiological burden by up to 60 % vs passive systems



Ruggedized Design

- + Noryl plastic housing for durability and chemical resistance
- + Operating temperature: -20 °C to +43 °C



Operational Advantages

- + Reduced fatigue during prolonged operations
- + Enhanced cognitive performance with unrestricted breathing
- + Increased mission endurance and effectiveness



Positive Pressure Protection

- + Maintains positive pressure inside facepiece at all times
- + Maximum protection factor (PF) by preventing inward leakage
- + Superior seal integrity even during high physical activity
- + Enhanced safety margin for CBRN and TIC environments



Extended Operation Time

- + Ni-MH battery provides 4+ hours continuous operation
- + Quick-change battery system for unlimited mission duration
- + Recharge up to 400 cycles for long-term cost efficiency
- + Fast charging: Full charge in less than 6 hours



Versatile Interoperability

- + Compatible with K10, K3, and all NATO-standard masks
- + Dual 40 mm NATO STANAG 4155 canister mounting
- + Revolving elbow connector for flexible hose positioning



HANCOM LIFECARE Inc.
offers a comprehensive range of products across
three main segments:
CBRN Gas Masks, CBRN Canister and PAPR.

Our solutions serve the fire service, chemical & maritime industries, homeland security, law enforcement, and military sectors.

Specializing in the manufacture of Personal Protective Equipment (PPE), our product line includes Air-Purifying Respirators, Chemical Protective Suits (CPS), Self-Contained Breathing Apparatus (SCBA), CBRN & Anti-Riot Gas Masks, Filters, Firefighting Garments & Helmets, and Heat Proximity Clothing.

At HANCOM LIFECARE, we prioritize safety and protection, delivering the highest quality products to our customers.

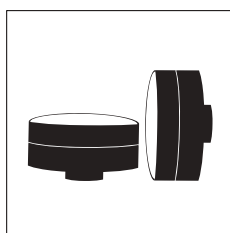


BUSINESS in BRIEF



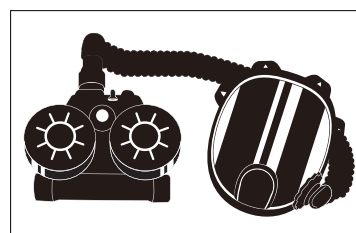
CBRN GAS MASK

- Current Generation gas mask for KMND
- Military gas mask
- Civil gas mask(CBRN)



CANISTER

- CBRN Dual Canister
- CBRN Canister
- NATO TRIPTYCH D103 COMPLIANT



PAPR

- Ruggedized Powered Air Purifying Respirator
- Compatible with K10, K3, and all NATO-standard masks
- PAPR Belt System

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