



AIR PURIFYING RESPIRATOR

# HMKI50™

THE INTEGRATED RIOT CONTROL SYSTEM

Schuberth  
HEAD PROTECTION TECHNOLOGY

AVON  
PROTECTION

# HMK150™

THE INTEGRATED RIOT CONTROL SYSTEM



## Providing complete head & respiratory protection

The HMK150 combines two leading edge products, Avon Protection's HM50 respirator and Schubert's P100 N Crowd Control Helmet. It provides users with a simple, rapid donning system for head and respiratory protection within a crowd control and public order environment.

The system has been designed specifically to meet the requirements of the Technical Guidelines for Modular Systems – Protective Helmet, Communication System, Respirator Mask from the Technical Commission at the Police Management Academy, Research and Development Office for Police Engineering in Munster, dated February 2011.

## Donning

HMK150 enables the respirator to be donned without removing the helmet ensuring head protection at all times.



# THE INTEGRATED RIOT

# CONTROL SYSTEM



## UNIQUE VISOR TECHNOLOGY

- Unique polyurethane visor is highly flexible plus scratch and impact resistant
- Fully optically correct across the whole field of view
- Panoramic visor design gives excellent field of vision and wearer recognition whilst greatly enhancing compatibility with weapon sights
- The Vision Correction System allows prescription lenses to be mounted inside the mask
- Clear outserts for extreme environments
- Sunlight outserts for high intensity light situations
- BlueBlocker outsert delivers sharper images by filtering out specific light wavelengths
- Laser outserts for protection against specific wavelengths

## AIR FLOW MANAGEMENT

- Heat build up minimised
- Low re-breathed carbon dioxide
- Low inhalation resistance
- Excellent de-mist properties

## USER COMFORT

- Lightweight with a slim profile – ensures mask is comfortable over long periods in the field
- Filter canisters are side mounted on either left or right side minimising interference and allowing improved capability for shoulder mounted devices
- Quick donning in under 9 seconds
- The chloro-butyl/silicone blend face piece material ensures the mask is not only high in protection but also provides a better seal and is more comfortable to wear for extended periods
- 3 sizes providing secure and comfortable fit for all facial shapes and sizes
- High flow fail safe drinking device, allows connection to either a canteen or bladder type hydration system
- Compatibility with helmets and CBRN protective clothing is improved due to the low profile, close contour brow, flat buckles and extended chin flap

## SPARES & ACCESSORIES

- Easy to maintain with simple access to key spare components such as valves
- Standard Avon accessories available, such as hydration canteens, Vision Correction System, clear and sunlight outsert lenses and a range of storage and carry bags

## Certifications

**CE** HM50: CE Certification – Article 10 EC Type-Examination based on EN136:1998 / AC: 2003 in conformance with the PPE directive 89/686/EEC – DEKRA Exam GmbH

HMK150 certified to the German Federal and State Police Technical Directive (TR), For a Modular System – Protective Helmet, Communication System, Respirator Mask. February 2011

## ACCESSORIES

### VISION



CLEAR OUTSERT



BLUEBLOCKER OUTSERT



SUNLIGHT OUTSERT



LASER OUTSERT



VISION CORRECTION ASSEMBLY

The unique design allows for prescription lenses to be fitted to the mask ranging from -8 to +10 Diopters in power. Flexible design allows assembly to fold inside the mask and lens height can be easily adjusted without need for special tools.

### COMMUNICATION

VOICE PROJECTION UNIT AND MICROPHONE ASSEMBLY



### HYDRATION



WATER CANTEEN

### STORAGE & CARRIERS



CAMELBAK CBR50I



UNIVERSAL CARRIER





# Helmet Features P100 N

## Outer shell

Multi-layer flame-resistant aramid fabric with special self-extinguishing lacquer, integrated push-button fasteners for direct adaptation of the AVON HM50 mask or a chin/mouth guard. 3 different shell sizes for maximum comfort

## Inner shell

Special EPS inner shell for optimised shock absorption properties

## Inner lining

Anti bacterial, flame-retardent lining of Nomex® fabric, removable and suitable for cleaning, excellent comfort

## Retention system

3-point chinstrap of Nomex® fabric with integrated neck strap, Micro-Lock Ratchet Fastener, emergency release (survival buckle), chinstrap pad of flameretardent Nomex® fabric

## Visor

Clear, 4 mm polycarbonate, with Anti-Fog coating

## Neck protection

Penetration-resistant with 4-layer nylon insert, PU-Kevlar® covering

## Weight

Approx. 1.500 – 1.900 g

## Wearing aid

Helmet integrated D-ring

## Accessories

Chin/mouth guard including emergency release system, homologated with AVON HM50 protective mask system, carrying bag for helmet, communication systems, tinted visor, Pinlock® visor (double-lens-system), individual padding set, camouflage covers

## Helmet Sizes

SCHUBERTH Helmet Sizes	Alpha Helmet Sizes
46/47	XXXXXS
48/49	XXXS
50/51	XXS
52/53	XS
54/55	S
56/57	M
58/59	L
60/61	XL
62/63	XXL
64/65	XXXL
66/67	XXXXL

## P 100 modular system



Visor



Communication systems



Neck protection



Lacquer types



Chin/mouth guard



Respiratory masks



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