

MSA Cairns®
The Safety Company

Cairns® XR2 Technical Rescue Helmet



CAIRNS® **XR2**

WHEN YOU GO IN, WE GO IN WITH YOU.



Key Features & Benefits

MULTI-PURPOSE

Engineered helmet platform designed for technical rescue, wildland firefighting, climbing, and water rescue operations.

FULL MODULARITY

Modular platform with a range of easily attachable accessories: responder goggles, face protection, and hearing protection with integrated communication system.

ACCESSORY INTEGRATION

Accessories designed for full integration: dual beam headlamp with tail light (Buddy light), adjustable internal visor, and water rescue ear protection.

USER-FOCUSED DESIGN

All integrated and modular accessories are designed for easy attachment.

“Glove-friendly” design of all accessories and helmet adjustment points for both right- and left-handed users.

UNMATCHED COMFORT

Compact design, lightweight materials, ride height adjustments, and integrated modular accessories all contribute to optimized weight distribution.

Optional dual ventilation shell pattern on top and sides provides additional comfort.

MEETS MULTIPLE STANDARDS

Designed and tested to meet the latest NFPA and EN Standards for Technical Rescue, Wildland Firefighting (*EN only*), and Water Rescue.

EASY CLEANABILITY

Easy to remove one-piece textile soft-goods to support health and safety initiatives
(see *Cleaning Guidelines* for details).

Innovative one-piece padding in soft-goods to help reduce pressure points.

CUSTOMIZABLE OPTIONS

Printing available for front plates to add custom logo or other designs.
Multiple reflective trim and decal choices with custom printing options.

Focus on Innovation



INTEGRATED DUAL-BEAM HEADLAMP

- Provides proximity (*floodlight*) and spot beam with over 250 lumens.
- Tail light (*Buddy-light*), with three colors available to toggle, and aid in accountability.
- “SOS” mode that flashes front and rear lights to signal a distress.



INTEGRATED INTERNAL VISOR

- Fully integrated into the helmet shell and easily deployed with a gloved hand.
- Adjustable fit to face with individual height and depth adjustments.
- No tools needed to install or remove.



WATER RESCUE EAR PANELS

- Left and right modular side protection covers for water rescue applications.
- Easy attachment points for connection and removal depending on task and situation.



RESPONDER GOGGLES

- Quickly attaches to helmet shell with modular connection.
- Easily switch between stand-by and in-service mode with release buckle.
- Keep goggle strap secure with magnetic adjustment system.
- Accommodates multiple head sizes with modular buckle system.



INTEGRATED HEARING PROTECTION WITH OPTIONAL COMMUNICATION SYSTEMS

- Modular connection to add both passive and electronic hearing protection.
- Optional communication systems with adjustable boom microphone for mission-critical communications.

Helmet Technical Specifications

WEIGHT (HELMET ONLY)	1.7 lb. ± 1.8 oz. (750 g ± 50 g, depending on version)
DIMENSIONS (SHELL)	
LENGTH	11.8" (299 mm)
WIDTH	9.4" (239 mm)
HEIGHT	7.1" (180 mm)
SIZES	One size fits most (hat size ranges 6½ to 8¾ [52 to 65 cm])
SHELL	Vented or unvented Painted
COLORS	
STANDARD	White, Black, Green, Blue, Yellow, Red, Grey
HIGH-VISIBILITY	Hi-Viz / Photoluminescent Yellow, Hi-Viz / Photoluminescent Orange, Photoluminescent
CHINSTRAP	3-4 points chinstrap 0.6" (16 mm) wide fire-retardant strap without loose end Height and depth adjustments Quick release buckle
ADJUSTMENTS	Head size (ratchet adjustment system) Ride height (3 positions) Nape strap height adjustment (3 positions)
MATERIALS	
SHELL & PLASTIC PARTS	High-temperature thermoplastics
STRAPS	Fire-retardant, modacrylic and polyester blend
PADDINGS	Polyamide / Polyester / Elastane base material
APPROVALS	NFPA 1951, 2020 Edition; Standard on Protective Ensembles for Technical Rescue Incidents CE Marking according to EU regulation 2016/425 (March 9th, 2016) EN 16471:2015 – Helmets for Wildland Firefighting EN 16473:2015 – Helmets for Technical Rescue EN 12492:2012 – Helmets for Mountaineers (vented version only)
CUSTOMIZATION	Retroreflective stickers (yellow, red, silver, blue, green) with or without marking Pad printed logo on front plate



White



Black



Green



Blue



Yellow



Red



Grey



Hi-Viz Yellow



Hi-Viz Orange



Photoluminescent

Options & Accessories



INTEGRATED LED HEADLAMP

FEATURES	Integrated LED headlamp module 2 beams (proximity and spot) Tail light (3 colors, RGB)
WEIGHT	
FRONT MODULE W /LEDS	3.2 oz. ± 0.2 oz. (90 g ± 5 g)
REAR AA BATTERY PACK (W/3XAA BATTERIES)	7.4 oz. ± 0.4 oz. (210 g ± 10 g)
APPROVALS	CE marking
POWER	3-AAA Alkaline/Lithium disposable or rechargeable batteries (Ni-MH)
PERFORMANCE	<i>(varies according to battery type)</i>
PROXIMITY	100 lumens, minimum 6 h
SPOT	150 lumens, minimum 4 h
COMBINED	250 lumens, minimum 1.5 h
RESERVE MODE	30 lumens, > 45 min.
SOS MODE	Flashing (spot beam + tail light)



RESPONDER GOGGLES

FEATURES	Dust-resistant design Attachment to helmet with two clips Tension adjustment through fire retardant straps Magnetic strap adjustment system
WEIGHT	5.8 oz. ± 0.4 oz. (165 g ± 10 g)
APPROVALS	EN 166:2002 – Eye Protection Marking: 2C-1,2 1BT 3459 KN
PERFORMANCES	
2C-1, 2	UV filter (EN 170)
1	Optical class 1
BT	High speed particles (268 mph [120m/s]) at extreme temperatures
3	Liquid droplets
4	Dust
5	Gas and fine dust particles
9	Molten metal
K	Anti-scratch
N	Antifog



INTERNAL VISOR

FEATURES	Retractable under helmet shell Depth adjustment Quick installation
WEIGHT	3.5 oz. ± 0.4 oz. (100g ± 10g)
APPROVALS	EN 14458:2018 – High Performance Visors
PERFORMANCES	Antifog / Anti-scratch 2C-1.2 : UV filter (EN 170)

Options & Accessories



NAPE NECK CURTAIN

FEATURES Color: Dark Blue
100% Aramid
Nape version, length 15 cm
Quick assembly through 3 plastic clips

WEIGHT 1.1 oz. ± 0.2 oz. (30 g ± 5 g)



HEARING PROTECTION

FEATURES Passive hearing protection
Low (green) and medium (yellow) noise attenuation

WEIGHT & DIMENSIONS

LOW ATTENUATION 6.5" x 4.2" x 4.7", 12.0 oz. (16.4 x 10.6 x 12.0 cm, 340 g)

MEDIUM ATTENUATION 6.5" x 4.2" x 4.7", 14.2 oz. (16.4 x 10.6 x 12.0 cm, 403 g)

SNR RATINGS

LOW ATTENUATION SNR 28 dB

MEDIUM ATTENUATION SNR 32 dB

APPROVALS EN 352-3:2002 – Hearing Protectors
ANSI S3.19-1974
ANSI S12.6-2008
AS/NZ S1270:2002
CSA Class A



WATER RESCUE KIT

FEATURES Additional side protection panels to extend area of coverage according to EN 1385 requirements

WEIGHT 1.8 oz. ± 0.4 oz. (50 g ± 10 g)

APPROVALS EN 1385:2012 – Water Sport Helmets
PAS028-2002 – Marine Safety Helmets, section 6: performances
Compliant on both non-motorized and motorized rescue crafts

More Accessories Coming Soon!



Headlamp
Alkaline ATEX / Li-Ion ATEX
& Non-ATEX

Available 1st Quarter 2022



Clear Face Protection



Mesh Face Protection

Available 2nd Quarter 2022



HELMET ORDERING INFORMATION

Part number	Description
GS210003A001-BA001	Cairns XR2 Technical Rescue Helmet, non-vented, white (painted), silver prism trim, no-eye, bag
GS2100032001-OP001	Cairns XR2 Technical Rescue Helmet, non-vented, hi-viz orange (painted), textile yellow trim, no-eye, bag
GS210003A001-NA001	Cairns XR2 Technical Rescue Helmet, non-vented, black (painted), silver prism trim, no-eye, bag
GS2100033001-YP001	Cairns XR2 Technical Rescue Helmet, non-vented, hi-viz yellow (painted), textile red trim, no-eye, bag
GS2100032001-RE001	Cairns XR2 Technical Rescue Helmet, non-vented, red (painted), textile yellow trim, no-eye, bag
GS1100030001-BA001	Cairns XR2 Technical Rescue Helmet, vented, white (painted), no-trim, no-eye, bag
GS1100030001-OP001	Cairns XR2 Technical Rescue Helmet, vented, hi-viz orange (painted), no-trim, no-eye, bag
GS1100030001-YP001	Cairns XR2 Technical Rescue Helmet, vented, hi-viz yellow (painted), no-trim, no-eye, bag
GS1100032001-NM001	Cairns XR2 Technical Rescue Helmet, vented, gray (painted), textile yellow trim, no-eye, bag
GS110003A001-IM001	Cairns XR2 Technical Rescue Helmet, vented, blue yellow (painted), prism silver trim, no-eye, bag
GS110003A001-VA001	Cairns XR2 Technical Rescue Helmet, vented, green (painted), prism silver trim, no-eye, bag
GS110003A001-JD001	Cairns XR2 Technical Rescue Helmet, vented, yellow (painted), prism silver trim, no-eye, bag
GS210003A001-IM001	Cairns XR2 Technical Rescue Helmet, non-vented, blue (painted), prism silver trim, no-eye, bag
GS210003A001-VA001	Cairns XR2 Technical Rescue Helmet, non-vented, green (painted), prism silver trim, no-eye, bag
GS210003A001-JD001	Cairns XR2 Technical Rescue Helmet, non-vented, yellow (painted), prism silver trim, no-eye, bag

All configurations listed above come in an individual box with textile bag.

ACCESSORY ORDERING INFORMATION

Part number	Description
Eye, Face, and Ear Protection	
GA3705	Responder goggles
GA3723	Responder goggles protective cover
GA3702	Ocular visor assembly
GA3703**	Mesh visor assembly EN 14458 & EN 1731
GA3704**	Clear visor assembly EN 14458 & EN 166
GA3701	Water rescue lateral protection panel, left and right
GA3708	Transportation bag
GA3709	Nape neck curtain
Softgood and Chin Straps	
GA3715	Suspension Padding
GA3711	Chinstrap
Reflective Trim (Stickers, Set of 5 pcs.)	
GA3719-06	Retro reflective stickers, Textile, Grey
GA3719-05	Retro reflective stickers, Textile, Yellow
GA3719-07	Retro reflective stickers, Textile, Red
GA3719-08	Retro reflective stickers, Vinyl, Blue
GA3719-09	Retro reflective stickers, Vinyl, Green
GA3719-00	Retro reflective stickers, Microprism, Grey
GA3719-01	Retro reflective stickers, Microprism, Yellow
GA3719-02	Retro reflective stickers, Microprism, Red
LED Headlamp	
GA3724*	L2XR headlamp, 3AA batteries, ATEX
GA3725**	L2XR headlamp, 3AA batteries, Non-ATEX
GA3726*	L2XR headlamp, Li-ion batteries, ATEX
GA3727*	L2XR headlamp, Li-ion batteries, Non-ATEX
Hearing Protection	
10190356	MSA passive hearing protection, Low
10190357	MSA passive hearing protection, Medium
GA3720**	Supreme active hearing protection
GA3721**	Supreme active hearing protection w/boom microphone
1011823**	left/RIGHT CutOff Pro, Yellow
1011826**	left/RIGHT CutOff Pro, Blue

* available in 1st quarter 2022

** available in 2nd quarter 2022

For Spare Parts Ordering Information, please refer to our Spare Parts Overview.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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