

LAW ENFORCEMENT  
and SECURITY EQUIPMENT  
2008-2009



Our mission  
your safety  
MSA

**MSA**  
POLICE LINE



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**MSA**  
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# PARACLETE® RAV (RELEASABLE ASSAULT VEST)

Designed for specialized military applications.  
Available for your tactical teams.

Activating the release feature allows the armor to be removed immediately for quick escape or administration of medical care.

**Law enforcement personnel benefit from the following features:**

- Patented single-point release feature can be mounted on either side of the vest.
- Full Molle-style grid webbing compatible with our pockets, and military issue Molle / Spear pockets.
- 07 version includes low-profile flat-front Molle grid with no closure hardware
- The drag strap is sewn the full length of the vest.
- Integrated drink tube and communication channels located on each shoulder.
- The zip-off back panel allows the user to easily change the configuration of the back of the vest.
- Hook & loop closure allows rapid access to the internal armor plate pockets and the soft armor package.

#### Specifications

- 10" x 12" rifle plate pockets
- Built-in side plate pockets for 6" X 6" hard plates.
- Mil. Spec. materials



*RAV 05 Version, smoke green, shown with optional front yoke, collar, shoulder and bicep protectors*

*RAV 07 Version, smoke green, with low-profile flat-front Molle grid with no closure hardware*

## Modular Vest Light

The Modular Vest Light (MVL) is designed for the professional that wants the lightest weight vest carrier possible, yet still offers unsurpassed quality and reliability.



*Modular Vest Light*

## MSA Paraclete Releasable Modular Vests

### RMV05 Models

Size	P/N Black	P/N Green	Description
XS	RMV024-05-XS-BK	RMV024-05-XS-SG	Releasable Modular Vest Carrier, X-Small
SM	RMV024-05-SM-BK	RMV024-05-SM-SG	Releasable Modular Vest Carrier, Small
MD	RMV024-05-MD-BK	RMV024-05-MD-SG	Releasable Modular Vest Carrier, Medium
ML	RMV024-05-ML-BK	RMV024-05-ML-SG	Releasable Modular Vest Carrier, Medium Long
LG	RMV024-05-LG-BK	RMV024-05-LG-SG	Releasable Modular Vest Carrier, Large
XL	RMV024-05-XL-BK	RMV024-05-XL-SG	Releasable Modular Vest Carrier, X-Large

### RMV07 Models

Size	P/N Black	P/N Green	Description
XS	RMV024-07-XS-BK	RMV024-07-XS-SG	Releasable Modular Vest Carrier, X-Small
SM	RMV024-07-SM-BK	RMV024-07-SM-SG	Releasable Modular Vest Carrier, Small
MD	RMV024-07-MD-BK	RMV024-07-MD-SG	Releasable Modular Vest Carrier, Medium
ML	RMV024-07-ML-BK	RMV024-07-ML-SG	Releasable Modular Vest Carrier, Medium Long
LG	RMV024-07-LG-BK	RMV024-07-LG-SG	Releasable Modular Vest Carrier, Large
XL	RMV024-07-XL-BK	RMV024-07-XL-SG	Releasable Modular Vest Carrier, X-Large

## MSA Paraclete Modular Vest Light

### RMV05 Models

Size	P/N Black	P/N Green	Description
XS	MVL024-XS-BK	MVL024-XS-SG	Modular Vest Light, Carrier, X-Small
SM	MVL024-SM-BK	MVL024-SM-SG	Modular Vest Light, Carrier, Small
MD	MVL024-MD-BK	MVL024-MD-SG	Modular Vest Light, Carrier, Medium
ML	MVL024-ML-BK	MVL024-ML-SG	Modular Vest Light, Carrier, Medium Long
LG	MVL024-LG-BK	MVL024-LG-SG	Modular Vest Light, Carrier, Large
XL	MVL024-XL-BK	MVL024-XL-SG	Modular Vest Light, Carrier, X-large

# PARACLETE<sup>®</sup> MOLLE POUCHES

Flexibility: for the team, the individual, the mission

Our modular pockets and pouches include a patented attachment system that negates the need for clips, snaps, plastic tie downs, and cordage.

The attachment device is permanently affixed to the equipment assembly, so it cannot be lost or otherwise separated from the pocket, pouch, or holster.

This system will not rust or become unserviceable even under the most extreme environmental conditions, and it maintains its flexibility in frigid climates. It's as easy to use as simple basket-weaving. No other tactical

modular attachment system in the world today can compare with its simplicity, durability, and flexibility.

#### Modular Pouches and Accessories

- simplicity
- durability
- flexibility



Ammo Pouch



Radio Pouch (Large)



Radio Pouch (Small)



Small GP Pouch



Mag Pouch 9mm



Mag Pouch M16/M4



Flash Bang Pouch



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BALLISTICS

ballistics

## Modular Pockets and Pouches

Part Number		Description
Black	Green	
ADP019-BK	ADP019-SG	Mag Pouch Double M16/M4
AFP019R-9-BK	AFP019R-9-SG	Mag Pouch 9mm Double
AMP507-BK	AMP507-SG	Mag Pouch Double MP-5
ASG019-BK	ASG019-SG	Ammo Pouch - Shotgun
BPP0707-BK	BPP0707-SG	Flash Bang Pouch - X 3
GPL077-LG-BK	GPL077-LG-SG	GP Pouch, Large
GPS019-SM-BK	GPS019-SM-SG	GP Pouch, Small
RUL019-LG-BK	RUL019-LG-SG	Radio Pouch Universal, Large
RUS019-SM-BK	RUS019-SM-SG	Radio Pouch Universal, Small
MCR019-BK	MCR019-SG	Chemical Mask Pouch M-45
HFG019B-BK	HFG019B-SG	Holster - 45/Glock/9MM
RTH007-BK	RTH007-SG	Holster - Reversible Thigh
FLH077-BK	FLH077-SG	Flashlight Holder
FSP019-BK	FSP019-SG	Foam Shoulder Pads
CBK019-BK	CBK019-SG	Pouch - Hydration System



Holster - Glock



Chemical Mask Pouch



Flashlight Holder



Foam Shoulder Pads



Hydration System Pouch



## HARD PLATE CARRIER

### Hard Plate Carrier

Size	P/N Black	P/N Green	Description
LG	HPC019-LG-BK	HOC019-LG-SG	Hard Plate Carrier with Cummerbund

Plate Carrier with cummerbund

# MSA PARACLETE® F.A.S.T. KITS

## Concealable F.A.S.T. Kits

Concealable and dual-purpose (with outer tactical carrier) Level IIIA body armor packages to meet your functional and budgetary needs. Ballistic panel covering is urethane-coated nylon, sonically bonded to resist water ingress.

Easy and fast to don.



Concealable Package includes:

- Light and Flexible Carrier constructed of 65% cotton, 35% polyester fabric
- Carry Bag
- Moisture-Wicking Undergarment
- Level IIIA Ballistic Panels—Meet NIJ Standard 0101.04 (June 2001) and NIJ Interim Requirements (September 2005)
- Trauma Pack
- Concealable color options: White, Black, Navy, Olive Green

### Concealable F.A.S.T. Kits

Part Number	Description	Qty
DHSCP19-T	Concealable Kit with woven Aramid Twaron package	
DHSCP19-D	Concealable Kit with premium Dyneema package	
Kits include selected Armor Panels and Trauma Pack, plus:		
DHSCB19	Carry bag	1
DHSMG19	Moisture-wicking garment	2
DHSCC19	Concealable carrier	2



## Dual-Purpose F.A.S.T. Kits

MSA Paraclete dual-purpose F.A.S.T. kits provide the officer/operator with daily protection and the ability to quickly respond to all situations. The concealable vest can quickly be converted to a light tactical vest with mission-specific pouches and pockets.

### Modular Pouches and Accessories

The MSA Paraclete line of pockets ensures flexibility at the team, individual, and mission-specific levels. Our modular pockets and pouches have a patented attachment system that negates the need for clips, snaps, plastic tie-downs, and cordage.



Concealable Carrier



Large Utility Pouch



Carry Bag



Handcuff Pouch



Ballistic Package & Trauma Pack



Outer Carrier

## Dual-Purpose F.A.S.T. Kits

Part Number	Description	Qty
DHSDP19-T	Dual-Purpose Kit with woven Aramid Twaron package	
DHSDP19-D	Dual-Purpose Kit with premium Dyneema package	
Kits include selected Armor Panels and Trauma Pack, plus:		
DHSCC19	Concealable carrier	2
DHSCB19	Carry bag	1
DHSOC19	Outer tactical carrier	1
DHSSU19	Small utility pouch	1
DHSHC19	Handcuff pouch	1
DHSMG19	Moisture-wicking garment	2
DHSLUP	Large utility pouch	1
ADP019	Rifle magazine pouch	1
AFP019R-9	Double handgun magazine pouch	1
RUS019	Radio pouch	1

Size	Chest (in.)	Height (in.)	Measurements (in.)
X-Small	34 – 38	5'5" – 5'8"	8 ¾" x 11 ¾"
Small	38 – 42	5'7" – 5'11"	8 ¾" x 11 ¾"
Medium	42 – 46	5'8" – 6'2"	9 ½" x 12 ½"
Medium Long	42 – 46	6' – 6'4"	9 ½" x 13 ¾"
Large	46 – 50	5'10" – 6'2"	10 ¼" x 13 ¾"
X-Large	50 – 54	6' – 6'4"	10 ¾" x 13 ¾"

### Dual-Purpose Package includes:

- Outer Tactical Carrier constructed of 1000-denier nylon fabric
- Carry Bag
- Moisture-Wicking Undergarment
- Level IIIA Ballistic Panels
- Modular Pouches & Accessories (see list at right)
- Outer Carrier and Pouch color options: Black, Olive Green, Coyote Brown, Universal Camo

### Accessory Pouches

- Handgun Double Magazine Pouch
- Double Rifle Magazine Pouch
- Handcuff Pouch
- Radio Pouch
- Holsters
- Large Utility Pouch
- Small Utility Pouch

# MSA TANGO TACTICAL ARMOR

## Flexibility and durability

This side-opening modular tactical platform integrates key features to satisfy your needs for protection, versatility, and comfort.

### *Safety and protection*

- Side-opening ballistics panel with a “no-hardware” clamshell-style front closure for fast, easy donning and doffing
- Overlapping ballistic shoulders for better comfort and length flexibility
- Removable ballistic upper arm and collar, removable front yoke throat protection, and pull-down ballistic groin protection

### *Versatility and comfort*

- Rugged Cordura Nylon construction
- Internal cummerbund (belly band) for added comfort and stability
- Integrated routing for communication cables and hydration tubes
- Rubberized textured shoulders for weapon stability and seating
- Optional standard ID patches

A full array of webbed Molle-style pocket-type attachments for :

- Ammunition
- Side arms
- Protective equipment and supplies



## Forcefield Tango Tactical Armor

Part No.	Vest Description	Size
10067790	Forcefield Tango, Webbed, K129 IIIA, Black	3XL
10067791	Forcefield Tango, Webbed, K129 IIIA, Black	2XL
10067792	Forcefield Tango, Webbed, K129 IIIA, Black	XLG
10067793	Forcefield Tango, Webbed, K129 IIIA, Black	LG
10067794	Forcefield Tango, Webbed, K129 IIIA, Black	MED
10067795	Forcefield Tango, Webbed, XTG IIIA, Black	3XL
10067796	Forcefield Tango, Webbed, XTG IIIA, Black	XL
10067797	Forcefield Tango, Webbed, XTG IIIA, Black	2XL
10067798	Forcefield Tango, Webbed, XTG IIIA, Black	LG
10067881	Forcefield Tango, Webbed, XTG Series IIIA, Black	MED

*Integral routing for communication cables and hydration*



*Adjustable ballistic shoulders*



## Rifle Plates – Level 4

Part No.	Description
10067349	Level 4 Rifle Plate - Triple Curve
10067372	Level 4 Rifle Plate - Single Curve



*Level 4 ceramic armor plate*

# FORCEFIELD® BRAVO CONCEALABLE BODY ARMOR

Traditional styling, low profile comfort and protection

- Poly/cotton outer shell for durability, a low profile and concealability
- Woven nylon, mesh liner to provide the officer with comfort and moisture management over a wide range of temperatures.
- Four- or six-point flexible adjustment
- Fully removable straps
- Flex Panel Sizing
- Fully hidden hook and loop closure for easy panel removal and insertion
- Female model features non-darted seamless ballistic construction that accommodates the female form while minimizing uncomfortable wear



*male version*

#### Available Colors

- black
- blue
- white
- olive green
- tan

ballistics

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### ForceField Bravo Concealable Armor - Male

Vest Description	Ballistic Package	Level	PN/Size		
			Medium	Large	X-Large
Bravo (Navy Blue), 4-Point	Kevlar - K129	2	10066751	10066752	10066753
Bravo (Navy Blue), 4-Point	Kevlar - XLT - XTGII	2	10066754	10066755	10066756
Bravo (Navy Blue), 4-Point	Kevlar-K129	3a	10066757	10066758	10066759
Bravo (Navy Blue), 4-Point	Kevlar - XLT - XTGIIIA	3a	10071255	10071256	10071257

### ForceField Concealable Armor - Female

Part No.	Vest Description
10074446	ForceField Bravo, XTG Level II, Female
10074445	ForceField Bravo, XTG Level IIIA, Female
10074443	ForceField Bravo, K129 Level II, Female
10074444	ForceField Bravo, K129 Level IIIA, Female



female version

## FORCEFIELD® SHIELD



The Forcefield Shield is an excellent choice for law enforcement officers as well as security professionals.

This vest comes with IIIa soft armor protection.

Our concealable carriers are designed to hold the soft armor insert in place to prevent sagging.

Constructed from 100% USA-made products.

### ForceField Shield

Part No.	Vest Description
UGCV03A	ForceField Shield, Level IIIA

# FORCEFIELD® ECHO CONCEALABLE BODY ARMOR

Exclusive side closure to ensure front-overback panel overlap—  
plus, extra-wide shoulder straps

- MSA's exclusive, patent-pending Armor-Latch side closure
  - Improves user safety by ensuring that the front panel overlaps the back panel
  - Quickly and comfortably adjusts, with a natural forward-pull motion
  - Secures panels in place while maintaining independent movement of front and back panels
- Advanced Microfiber rip-stop outer-shell material
- Very wide removable shoulder straps to enhance load-bearing comfort
- Easy accommodation of male and female sizing and vest panels



## Forcefield Echo Armor System - Male

Size	Color	Part No.
Small	Black	10083542
Medium	Black	10083543
Large	Black	10083544
X-Large	Black	10083545

## Forcefield Echo Armor System - Female

Size	Color	Part No.
Standard	Black	10083546

### Available Colors

- black
- blue
- white
- olive green
- tan

# LIGHTWEIGHT OUTER CARRIERS

- The **OPC-100 (Outer Patrol Carrier)**, a general-duty external carrier with multiple sewn-in utility pockets and pouches. Large utility pockets include elastic to hold utility items. Includes handcuff pouch, flashlight loop, and small utility pockets.
- The **EMS (Emergency Medical Services) Carrier**, similar to the OPC-100 Carrier but provides larger utility pockets, reflective trim and color variations to accommodate emergency medical services and other specialty applications.
- The **Delta LTC (Lightweight Tactical Carrier)**, a similar externally worn carrier with front and back pockets accommodating rifle plate sizes of up to 10" x 12". Also included is an integrated webbed MOLLE-style grid.



OPC-100 (Outer Patrol Carrier)



EMS (Emergency Medical Services) Carrier



Delta LTC (Lightweight Tactical Carrier)

## Lightweight Outer Carriers

	Color	Small	Medium	Large	X-Large
OPC-100 (Outer Patrol Carrier)	Black	10078711	10078712	10078713	10078714
EMS (Emergency Medical Services) Carrier	Blue	10078715	10078716	10078717	10078718
Delta LTC (Lightweight Tactical Carrier)	Black	10078719	10078720	10078782	10078722

# FORCEFIELD® ALPHA CONCEALABLE BODY ARMOR

## Maximum comfort without sacrificing ballistic coverage

The Armor-Latch™ Closure enhances body coverage and boosts your confidence while contributing significantly to the comfort of your full-wrap body armor. Your one-handed "forward pull" adjustment easily secures a front-to-back panel overlap, automatically aligning front and back panels for proper side coverage and comfort. The aligned solid closure also permits independent movement of the front and back armor panels, so you have greater mobility.



### ForceField Alpha Concealable Armor - Male

Vest Description	Ballistic Package	Level	PN/Size			Body Type	Length
			Medium	Large	X-Large		
Alpha (Black)	Kevlar - K129	2	10066742	10066743	10066744	1	13
Alpha (Black)	Kevlar - XLT - XTGII	2	10066745	10066746	10066747	1	13
Alpha (Black)	Kevlar - XLT - XTGIIIA	3a	10066748	10066749	10066750	1	13



#### Available Colors

- black
- blue
- white
- olive green

Available with a sleeveless option.

# FORCEFIELD® ACH ADVANCED COMBAT HELMET

Superior ballistic and high-speed frag protection plus comfort

The MSA Advanced Combat Helmet was originally developed for the U.S. Military Special Operations Command, meeting stringent requirements and unprecedented demands, and setting new performance standards. The ACH has been credited with "taking the bullet" and saving several soldiers' lives during combat, and was named one of the 10 Best Inventions of 2002 by the US Army Material Command.

Now MSA's ACH, battle-tested in Iraq and Afghanistan, is available for YOU in Law Enforcement, enhanced to meet your advanced handgun specification.

MSA's ForceField Advanced Combat Helmet delivers the best impact protection, stability, and comfort available.



Helmet Pad Kit

#### Ballistic Performance, IIIA

- 124 grain, 9mm
- 240 grain, 44 Magnum

#### Fragmentation Performance Specifications (V50)

- 2 grain RCC @ 4075 fps
- 4 grain RCC @ 3450 fps
- 16 grain RCC @ 2425 fps
- 64 grain RCC @ 1700 fps

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ballistics



BALLISTICS



## MSA ForceField ACH

Shell Size	Pad Size – Thickness	Head Size	MSA P/N Black - No NVG Hole	MSA P/N Green - No NVG Hole	MSA P/N Black - Single NVG Hole	MSA P/N Green - Single NVG Hole
Medium	No. 8 – 1”	6 1/2 – 7	10060496	10060499	10060497	10060500
Medium	No. 6 – 3/4”	7 – 7 1/4	10060484	10060487	10060485	10060488
Large	No. 8 – 1”	7 1/4 – 7 1/2	10060502	10060505	10060503	10060506
Large	No. 6 – 3/4”	7 1/2 – 7 3/4	10060490	10060493	10060491	10060494

## Accessories / Pad Kits

300021A	Chinstrap
10060678	Pad Kit, Size 6 – 3/4”
10060679	Pad Kit, Size 8 – 1”
10079894	Pad Kit, Size 4 – 1/2”
10060735	Pad Kit, Combat Helmet, MD/LG, 10 Sets, Size 6
10060736	Pad Kit, Combat Helmet, MD/LG, 10 Sets, Size 8
	Pad Kit, Combat Helmet, MD/LG, 10 Sets, Size 4

## Advanced Combat Helmet (ACH) - TC 2000 Military Series

### ACH TC-2000 — GREEN

	Medium Size, Pad Set #6	Medium Size, Pad Set #8	Large Size, Pad Set #6	Large Size, Pad Set #8	Extra-Large Size, Pad Set #6	Extra-Large Size, Pad Set #8
No. Holes	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
0	300098A	300641A	300099A	300642A	—	—
1	300188A	300647A	300189A	300648A	010050873	10050874
2	300363A	300653A	300371A	300654A	—	—
3	300364A	300659A	300372A	300660A	—	—

### ACH TC-2000 — BLACK

	Medium Size, Pad Set #6	Medium Size, Pad Set #8	Large Size, Pad Set #6	Large Size, Pad Set #8
No. Holes	Part No.	Part No.	Part No.	Part No.
0	300134A	300689A	300135A	300690A
1	300368A	300695A	300376A	300696A
2	300369A	300701A	300377A	300702A
3	300370A	300707A	300378A	300708A

### ACH TC-2000 — TAN

	Medium Size, Pad Set #6	Medium Size, Pad Set #8	Large Size, Pad Set #6	Large Size, Pad Set #8
No. Holes	Part No.	Part No.	Part No.	Part No.
0	300132A	300665A	300133A	300666A
1	300365A	300671A	300373A	300672A
2	300366A	300677A	300374A	300678A
3	300367A	300683A	300375A	300684A

# SUPREME PRO™ HIGH NOISE COMM SYSTEM

Unobtrusive communications plus hearing protection  
— integrates with ballistic helmets

The Supreme Pro Communication System integrates with ballistic helmets providing unobtrusive communications and hearing protection in areas of loud impulsive sounds, such as areas where weapons may be fired.

The system protects your hearing while enabling clear radio communications.

Cup-mounted microphones enhance user situational awareness, allowing the user to hear ambient sounds within the environment while protecting your hearing.

The communication system is used as either as a stand-alone headset or with MSA's ForceField ACH, Millennium CBRN Gas Mask and eyewear. This noise-canceling boom microphone-based system interfaces with various police radio transceivers and intercom systems.

*neckband style*



*headband style*



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## Features

- Hands-free monitoring
- Functional with gloved hands
- Connects to communication radios via MSA's TacPTT
- Two-way communication with minimal background noise interference
- Lightweight, comfortable, and easy to use
- Superior hearing protection and amplification



## COMMUNICATIONS



## TacPTT

A Push-To-Talk assembly is made available for integration with the upper headset assembly. Methods of affixing the PTT assembly to BDUs or protective vests will include military spec hook and loop fastener materials, a mil-spec steel alligator-style clip or velcro. Other options and accessories will be made available including both water-resistant headset inline quick disconnects and remote finger PTTs.

### Supreme Pro Communication Systems

Description	Headband	Neckband
Supreme Pro Headset, Boom Mic R, Nexus	10079965	10079962
Supreme Pro Headset, Boom Mic L, Nexus	10079964	10079967
Accessories		
Finger PTT	10083177	
Hygiene kit, complete with cushions & inserts	10061294	

Radio Manufacturer	U.S. Radio Model(s)	Part No.
KENWOOD	Kenwood TK190, TK280/380/290/390, 480, 481, 2140, 3140, 290K, 2180	10078233
MOTOROLA	SABER	10079684
MOTOROLA	Motorola HT1000, JT1000, MT2000, MTX2000, MTX838/839, MTS2000, MTX2000, MTX8000, MTX9000, Transcript Stealth, GP900, MTX, JEDI, XTS 3500R, XTS 3000R, PTX1200, PTX3600, XTS5000, XTS5000R, GP900, XTS1500, XTS2500, XTS3000	10078232
MOTOROLA	Motorola HT750, HT1250, GP328, Pro5150, LS, Quick Disconnect, HT1550, GP328, Hardwired, Pro5150, HT1550XLS, Pro7150, Pro7350, Pro7550, Pro9150, MTX850, MTX850LS, GP329, GP388, GP339, GP340, GP360, GP680, MTX8250, MTX8250-LS, MTX950, MTX9250, PTX700, PTX760, PTX780, PR860	10077885
ICOM	Top load IC-F10/20, IC-F3S, IC-F4S	10079722
M/A-COM	P7100	10078234

# MILLENNIUM<sup>®</sup> GAS MASK (CBRN OR RIOT CONTROL)

## Proven in the Line of Duty

A Hycar version of the reliable military-style gas mask (MCU-2/P Mask, used by the U.S. Air Force in Desert Storm) that combines high performance, customized fit, comfort, and cost efficiency.

- Wide field of vision
- Dual-canister mount allows weapon sighting from either shoulder
- Drinking tube
- Easy on/off, easy adjustment
- Nosecup reduces fogging
- Standard mechanical speaking diaphragm included, or add MSA's optional ESP<sup>®</sup> II Communications System
- Uses either MSA's CBRN canisters or MSA's Riot Control canisters



*Millennium Gas Mask with CBRN canister (sold separately)*

### *Approvals with CBRN Canister*

- NIOSH-approved (No. TC-14G-0270) for protection at a CBRN Cap 1 rating

### *Approvals with Riot Control Canister*

- NIOSH -approved (No. TC-14G-0254) for protection against chloroacetophenone (CN), chlorobenzylidene (CS), P100 particulate efficiency level, and particulates



## RESPIRATORY PROTECTION

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respiratory protection

*CBRN Canister*



*Riot Control Canister*



### **Millennium CBRN Gas Mask**

With nosecup, drinking tube, and clear polycarbonate outsert. Order canister separately.

Small	10051286
Medium	10051287
Large	10051288

### **Millennium Canisters**

MSA CBRN Canister	10046570
MSA Riot Control Canisters, box of 6	818264

# RESPONDER™ CBRN PAPR (POWERED AIR-PURIFYING RESPIRATOR)

Ideal for special ops personnel who need non-IDLH protection for an extended period of time

Industry trusted, with over 50,000 C420's fielded in various U.S. military programs, the C420 Motor-Blower is ideal for filtering contaminants from ambient air and providing a constant airflow of at least 115 lpm to the user's facepiece, providing a twenty times greater OSHA assigned protection factor than APR, due to positive pressure in the mask.

The C420 is available with 2 batteries that have the ability to be "hot-swapped" during warm environment use. The Lithium-Sulfur Dioxide mission battery has an 8 hour run-time. The Nickel Metal Hydride rechargeable battery has a 4 hour run-time. The motor / blower will not interfere with radio communications as it is EMI shielded to MIL-STD-461C.

The C420 comes complete with the motor-blower, belt, airflow indicator and breathing tube.



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respiratory protection

#### Features

- Protects wearers for up to 8 hours under many hazardous conditions
- First CBRN-approved PAPR with a tight-fitting facepiece
- Choice of 2 proven positive-pressure facepieces, the MSA Millennium and the MSA Ultra Elite
- Choice of CBRN cartridge or multi-gas / particulate chemical cartridges for non-CBRN use



## RESPIRATORY PROTECTION

## Responder CBRN PAPR Complete Systems

You must choose C420 PAPR Kit, facepiece, and cartridge for complete system.

### C420 PAPR Kits (less facepiece and cartridge)

Part No.	Description
B-60141-030	C420 PAPR Kit with 30" Breathing Tube
B-60141-036	C420 PAPR Kit with 36" Breathing Tube

### Gas Mask Facepieces with Head Harness (less cartridge)

Facepiece	Material	Head Harness	Size		
			Small	Medium	Large
Millennium	Hycar	6-point elastic	10051286	10051287	10051288
Ultra Elite	Hycar	rubber	10052776	10052781	10052778
Ultra Elite	Hycar	Speed-ON	10052780	10052779	10052777

### Cartridges

Part No.	Description
10046570	PAPR Responder* cartridge, each
496081	OptiFilter XL cartridge, 6 pack
10072237	PAPR GME Multigas HE cartridge, each

\*Designed to meet new NIOSH CBRN PAPR Requirements.

### Accessories for Responder PAPR

Part No.	Description
B-20040-001	NiMH Rechargeable Kit (2 NiMH Batteries, Charger & Cap)
S-20036	NiMH Rechargeable Battery Pack
B-20090-001	NiMH Rapid Battery Charger
M-20020	LiSO2 Mission Battery
B-30060-001	NiMH Rechargeable Battery Cap Assembly
S-30019	Web Belt Assembly
B-10079-001	PAPR Carrying Case

# BLACKHAWK® TACTICAL AIR MASK (SCBA)

Black, sleek, and silent.

The BlackHawk Tactical Air Mask features the rugged, dependable Ultra Elite® Facepiece—super-soft for a smooth and comfortable fit. It also resists chemical attack and temperature extremes, and withstands rugged day-to-day use without tearing and ripping. The Firehawk® Mask-Mounted Regulator with Push-to-Connect feature combines exceptional ease of use and maintenance with outstanding performance.

The automatically activated Heads-Up Display (HUD) functions silently as the low pressure warning device and the cylinder pressure gauge. The BlackHawk Air Mask's harness and carrier feature a composite backplate reinforced with glass fibers and large side handles on the backplate for pulling the wearer to safety. The Blackhawk

Air Mask is available in both low-pressure (2216 psi) and high-pressure (4500 psi) operating systems.



*The BlackHawk Tactical Air Mask is especially designed for tactical situations. Certain BlackHawk features eliminate reflections and/or audible sounds that would compromise concealment.*



## RESPIRATORY PROTECTION

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## More options for the BlackHawk Air Mask

### *Cylinders*

- The Blackhawk Air Mask is available in both low-pressure (2216 psi) and high-pressure (4500 psi) operating systems
- Carbon- fiber cylinders available for use are: L-30 , H-30 , H-45 Low-Profile , H-60



*lightweight carbon-wrapped cylinders*

### *Quick-Fill® System Option*

- A shoulder-mounted Quick-Fill System option is offered

### *Workline Accessory*

- For extended-use applications, an air-line accessory is available with your choice of five different types of fittings

### *Rescue Belt*

- Emergency egress system integral to the SCBA waist belt
- Includes Kevlar line and rappelling hardware

### *Carrying Case*

- A hard case or soft case are offered for storage purposes

### *CBRN Protection*

- Optional CBRN hardened facepiece and regulator assembly
- Positive protection from CBRN agents
- Same CBRN components as the very popular FireHawk Air Mask



*Inside view of Heads Up Display*

The BlackHawk tactical Air Mask can be ordered using MSA's Assemble-To-Order System. Please refer to Bulletin 0105-112-MC.

# SUPREME PRO-X™ MUFF

## The best of the best

The Supreme Pro X features high amplification with a natural realistic sound, AUX input, and fully waterproof microphones and battery compartments. Slim design cups accommodate both right-handed and left-handed shooters. Two separate, waterproof microphones offer excellent sound quality and perfect directional hearing.

### Supreme Pro-X Muff

Supreme Pro-X headband model (NRR – 18dB)	10082167
Supreme Pro-X neckband model (NRR – 19dB)	10082166

#### More great features

- 600 hours battery life with two each standard AAA batteries
- AUX-inlet (3, 5mm for hunting radio, dog tracking devices, CD players)
- Monocable included
- Tested to IP 67
- 5-year warranty on electronics

headband model



neckband model



## HEARING PROTECTION



headband model

# SUPREME PRO™ MUFF

## Optimum protection with high amplification

Offers optimum protection with high amplification, AUX input and watertight battery compartment. Both earmuffs are shaped to suit both right-handed and left-handed shots. Two separate, well-shielded microphones provide optimum stereo effect and location of sound direction.



neckband model

### Supreme Pro

Supreme Pro headband model (NRR – 18dB)	10061285
Supreme Pro neckband model (NRR – 19dB)	10079966
Hygiene Kit	10061294

### More great features

- High amplification and natural sound reproduction without “chopping”
- Around 600 hours battery life with two standard AAA batteries
- AUX input for connecting external audio sources, such as a radio. Lead with 3.5 mm mono jack plug included

# SAFESITE<sup>®</sup> MULTI-THREAT DETECTION SYSTEM

Simultaneously monitors and wirelessly communicates six potential threats: CWAs, VOCs, TICs, gamma radiation, combustible gas and oxygen deficiency.

SAFESITE System components consist of the SAFEMTX<sup>™</sup> Multi-Threat Detector, the SAFECOM<sup>™</sup> Command Center and the SAFECONNECT<sup>™</sup> Belt-Bridge with Sirius wireless interface. The system can be installed permanently (wired or wireless) for continual monitoring or deployed as a portable system.

The SAFECOM<sup>™</sup> Command Center receives mission-critical information from the SAFEMTX<sup>™</sup> Detectors and permits this crucial and wide-ranging data to be converted quickly into practical information for rapid decision-making through an uncomplicated graphical user interface.

The SAFECOM Command Center can manage up to four systems with 16 SAFEMTX Detectors per system, integrating SAFEMTX data, including:

- Gas readings
- Relative CWA threat level
- Radiation dose rate
- Alarm status
- GPS location
- Battery run time
- RF signal strength
- Fault conditions
- SAFEMTX min, max, and average values

Through the SAFECOM Command Center, alarms are identified with both visual and audible alarms. Alarms can then be acknowledged and silenced, detectors can be enabled and disabled, event logs and event log history can be viewed, plus units can be customized to suit the specific deployment scenario.



SAFEMTX Multi-Threat Detector



SAFECOM Command Center



PC Connection

Superior preventative and counter-measure solutions for:

- Homeland Security
- Emergency Response
- Public Events
- Building Protection
- Mass Transportation Centers
- Perimeter Monitoring
- Hazardous Response
- Port Surveillance
- Confined Space Monitoring

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## Wireless Technology

The SAFESITE® System provides up to two miles of wireless communication between any SAFEMTX Detector, SAFECONNECT Belt-Bridge and SAFECOM Command Center. SAFECONFIG™ Software works with the SAFECOM Command Center or SAFECONNECT Belt-Bridge, enabling configuration of any SAFEMTX Detector as a repeater. This added capability maximizes deployment range and ensures maximum signal strength and reliable deployment without the need to move units.

### SAFEPAC™ Perimeter Area Command Kit

SAFESITE® SAFEPAC Perimeter Area Command Kit provides a basic kit for quick deployment and monitoring of an event or a location. The kit includes two Pelican cases with an internal battery charger, 4 SAFEMTX™ Multi-Threat Detectors, 1 SAFECOM™ Command Center, all necessary PC interface software, and 4 extra batteries. A laptop PC is also available as an option, or an existing PC can be used.

Threat	Technology	Benefit
Chemical warfare agents	Surface acoustic wave (SAW)	Low false positives and false alarms, differentiates nerve & blister agents
Gamma radiation	Cadmium zinc telluride (CZT)	Sensitive with adjustable threshold and 2 ranges. (0-100 mR/hr, 0.1 mR/hr resolution & 0-1000 mR/hr, 1 mR/hr resolution)
Volatile organic compounds	Photo-ionization (PID)	10.6 eV lamp provides ppm readings for broadband toxics and VOC detection
Toxic industrial chemicals	Electrochemical	Detects many specific toxic gases such as chlorine, ammonia, hydrogen cyanide and hydrogen chloride
Oxygen deficiency/enrichment	Electrochemical	Oxygen monitoring for confined space
Combustible gas	Catalytic bead	Wide range detection for hydrocarbons



- 1 Threat Readings** – scrolling readings of up to 16 MTX Detectors per channel. Unit is identified by large icon to the left of the readings. In alarm condition, display snaps to unit in alarm.
- 2 MTX Icons** – identify number of units enabled in current network. Users may view specific unit reading by double-clicking on icon.
- 3 Map** – option for map view or uploaded image view.
- 4 Signal Strength** – communication status from SAFEMTX™ Detector to SAFECOM™ Command Center.
- 5 Power** – status of battery life of SAFEMTX Detectors.
- 6 System Status** – alerts user to alarm, warning or fault within a particular system.
- 7 Action Buttons** – allow user to select address, cycle units, acknowledge alarms and enable or disable units from the system.

The SAFESITE Multi-Threat Detection System can be ordered using MSA's Assemble-To-Order System. Please refer to Bulletins 07-2114-MC and 07-2115-MC.

# SAFECONNECT™ BELT-BRIDGE WITH SIRIUS® WIRELESS INTERFACE AND SAFECONFIG™ SOFTWARE

Advanced Threat Detection. Superior Protection.  
Portability. Repeater Expandability.

The SAFECONNECT™ Belt-Bridge works with the Sirius Detector for integration into the MSA SAFESITE® Multi-Threat Detection System. These new system components offer up to two miles of wireless communication plus an updated Graphical User Interface (GUI) which provides all mission-critical information in one uncomplicated format.

#### Components Work Together

The Sirius Wireless Interface features an IR link which gathers the information from the Sirius Multigas Detector (PID, CO, H<sub>2</sub>S, O<sub>2</sub> and combustible gases) and then sends the information to the SAFECONNECT Belt-Bridge via Bluetooth technology.

The SAFECONNECT Belt-Bridge converts the signal from the Sirius and transmits the information plus GPS location back to the SAFECOM Command Center via a 1 watt, spread spectrum, frequency hopping, 900 MHz radio. The SAFECOM Command Center receives the 900 MHz signal from the SAFECONNECT Belt-Bridge and converts

it to practical information for rapid decision making. The SAFESITE System can display simultaneous information from the SAFEMTX™ Detectors and the Sirius Multigas Detector for complete coverage.

#### Integration

- All of these components are designed for integration with MSA's SAFESITE System, combining state-of-the-art detection technologies.



#### SAFECONNECT Belt-Bridge, SIRIUS Wireless Interface and SAFECONFIG Software

Part No.	Description
10071439	SAFECONNECT Belt-Bridge Assembly
10073837	Sirius Wireless Kit, includes extended boot and wireless module
10073312	SAFECONFIG Installation Software

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# SIRIUS® PID MULTIGAS DETECTOR



Detects volatile organic compounds, while measuring for combustible, toxic and oxygen-deficient atmospheres

#### **Tremendous Flexibility—**

One PID and four gases in one instrument allows for detection of hundreds of chemicals.

#### **Reliable PID Performance—**

Humidity resistance, stable zero readings, and fast response and clear times enable users to get their jobs done dependably.

#### **User-Friendly Software—**

Easy-to-use software allows users to focus on their tasks at hand!

#### **Loud, Attention-Grabbing Alarm—**

The Sirius Multigas Detector provides outstanding alarms to clearly warn users of a hazardous situation.

#### *More great features*

- Interchangeable lithium-ion and alkaline battery packs
- Long-term storage kit provides all the tools necessary to keep the Sirius Multigas Detector running if the unit has not been frequently used
- Easy calibration (compatible with the Galaxy® Automated Test System)

The SIRIUS PID Multigas Detector can be ordered using MSA's Assemble-To-Order System. Please refer to Bulletins 0803-05-MC.

# CW SENTRY™ CHEMICAL WARFARE AGENT DETECTOR

## Accurate, quantifiable and highly specific detection of Chemical Warfare Agents (CWAs) and Toxic Industrial Chemicals (TICs)

The CW Sentry Detector is a fixed-point, third generation detector which has been extensively evaluated by US national labs with hundreds of instruments installed in key locations across the US, safe guarding the public against terrorist attacks and chemical spills. The Sentry Detector's primary role is consequence management.

Specifically, it is designed to minimize casualties by rapidly alerting security personnel upon detection of trace amounts of a targeted chemical gas.



### CW Sentry CWA Detector

Part No.	Description
10056374	Detects nerve and blister agents
10074654	Detects nerve and blister agents and hydrogen cyanide (Blood Agent)
10074655	Detects nerve and blister agents and phosgene (Choke Agent)
10074656	Detects nerve and blister agents and Toxic Industrial Chemicals (TICs) (Hydrogen Cyanide, Phosgene, Halogen and Hydride Gases)

### Optional Features

Ethernet communications port, fiber optics communications port, conduit pipe power connector and annual service contract.

#### Features

- Built-in networking and testing capabilities
- Integrates into existing building security systems
- Currently deployed at hundreds of key stations
- Protects the lives of millions of people daily



DETECTION



# SAFESITE SENTRY™ CHEMICAL AGENT DETECTOR



## 24/7 detection plus communication of up to six potential WMD threats

The SAFESITE Sentry Chemical Agent Detector and the SAFECOM™ Command Center make up MSA's permanently installed SAFESITE Sentry system. This system continuously monitors, detects, and communicates the presence of up to six potential threats: chemical warfare agents (CWAs), toxic industrial compounds (TICs), volatile organic compounds (VOCs), gamma radiation, combustible gas, and oxygen content.

This network—wired or wireless—is easily integrated into existing automation and security systems within facilities, buildings, transportation hubs, etc. It helps first responders, law enforcement, government agents, and security personnel reduce the risk of exposure and facilitate consequence management.

To order MSA's SAFESITE Sentry Chemical Agent Detector, please refer to Assemble-to-Order Bulletin #07-2114.

### Sensors available for:

Ammonia	Chlorine	Hydrogen Chloride	Oxygen
Arsine	Chlorine Dioxide	Hydrogen Cyanide	Phosphine
Bromine	Combustible Gases	Hydrogen Sulfide	Sulfur Dioxide
Carbon Monoxide	Ethylene Oxide	Nitric Oxide	VOC Photoionization Detection
CWA (Nerve and Blister Agents)	Gamma Radiation (CZT)	Nitrogen Dioxide	

### Features

- Integration of several proven technologies
- Highly selective to specific chemical agents, reducing false alarms
- Identifies selected TICs (Toxic Industrial Compounds) by specific gas with readings displayed in ppm
- Interchangeable smart sensors are pre-calibrated for fast change-out
- GPS and wireless access available

# BIOSENSOR™ 2200R BIOLOGICAL AGENT DETECTOR

Handheld, portable, on-site instrument for rapid detection, analysis, and identification of biological agents

Unique bioassay technology offers excellent sensitivity and low false positives while offering ease of use during white powder response calls. This highly accurate detection method provides rapid measurement of biohazards such as anthrax, ricin, botulism, SEB, and plague. Exclusive five minute time-to-answer allows first responders to make informed critical decisions more rapidly than any other biological agent detector.



## BIOSENSOR 2200R Biological Agent Detector

10084834 MSA BIOSENSOR 2200R Biological Agent Detector Kit\*, includes carry case, charger, cartridge starter kit (10084758), instruction manual, and quick start guide.

### BIOSENSOR Cartridge Plans

10084758	MSA BIOSENSOR cartridge starter kit includes 3 Anthrax/Ricin dual kits**, 1 Anthrax, 1 Ricin, 3 positive control, 2 negative control cartridges, and 2 wet sample kits
10084753	MSA BIOSENSOR Low volume cartridge plan includes 6 Anthrax/Ricin dual kits**, 2 Anthrax, 2 Ricin, 6 positive control, 2 negative control cartridges, and 2 wet sample kits
10084754	MSA BIOSENSOR Medium volume cartridge plan includes 24 Anthrax/Ricin dual kits**, 6 Anthrax, 6 Ricin, 24 positive control, 6 negative control cartridges, and 4 wet sample kits
10084755	MSA BIOSENSOR High volume cartridge plan includes 60 Anthrax/Ricin dual kits**, 8 Anthrax, 8 Ricin, 60 positive control, 8 negative control cartridges, and 6 wet sample kits.

\* Extended warranties available.

\*\* Each biohazard cartridge test kit includes a dry sample kit. Please contact your local MSA rep for more information.

#### Targets

- Anthrax/ricin duplex— one test, two agents
- Anthrax
- Ricin
- SEB (staphylococcal enterotoxin B)
- Botulism\*
- Plague\*
- Smallpox\*
- Tularemia\*
- Cholera\*
- West Nile virus\*

\*additional agents in development



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# HAZMATCAD PLUS DETECTOR

## Detects for Chemical Warfare Agents (CWA) and selected Toxic Industrial Chemicals (TICs)

The HAZMATCAD Plus Detector is a portable instrument designed for one-hand operation. It is very easy to operate and requires limited training for effective use.

### Features

- Highly specific to agents—low false positives
- Self-diagnostic check during rapid warm-up
- Alphanumeric display with LED alarms
- Dual-Mode SAW Operation—Fast or High Sensitivity
- Electrochemical Cells – Real time analysis
- Operates between 8 and 12 hours on rechargeable Li-Ion batteries
- Vapor-diffusion check source verifies system performance
- RS-232 and IrDA communication ports; stores up to 8 hours of data
- Inlet design protects against dust and particulates

### HAZMATCAD Detector Kits

Kits include: HAZMATCAD Detector; battery charger; belt clip; two Sony rechargeable batteries; hard, water-resistant carrying case; operating manual; vapor check source

Part No.	Instrument	Chemical Agents Detected
10055094	HAZMATCAD Detector	Nerve and Blister
10055095	HAZMATCAD Detector	Nerve, Blister and Hydrogen Cyanide
10055096	HAZMATCAD Detector	Nerve, Blister and Phosgene
10055097	HAZMATCAD Plus Detector	Nerve and Blister agents and TICs (phosgene, hydrogen cyanide, halogen and hydride gas)

### Targets

- Nerve and Blister agents
- Nerve, Blister agents and Hydrogen Cyanide
- Nerve and Blister agents and TICs (phosgene, hydrogen cyanide, halogen and hydride gas)

# ALTAIR® 4 MULTIGAS DETECTOR

A super-durable, competitively-priced, personal multigas detector

The ALTAIR 4 Multigas Detector for LEL, CO, H<sub>2</sub>S, and O<sub>2</sub> is the only portable gas detector with an optional MotionAlert™ feature if a user should become disabled due to unforeseen hazards. When enabled, the MotionAlert feature will activate if the instrument does not detect motion for 30 seconds, and is ideal for confined space entry applications. This unique gas detector function is easily turned off by the user if desired.

#### Features

- MotionAlert feature plus audible, visual, and vibrating alarms
- Most rugged instrument available
- Large buttons for easy operation
- 20-hour battery run time when fully charged
- Tested to IP67
- Galaxy® System compatible
- Global approvals
- Economically priced
- MSA Link™ Software-ready
- QuickCheck™ Test Station available for fast, easy bump testing



#### Specifications

#### Gas.....Range.....Resolution

LEL.....0–100%.....1%

O<sub>2</sub>.....0–25% vol.....0.1% vol

CO.....0–999 ppm.....1 ppm

H<sub>2</sub>S.....0–200 ppm.....1 ppm



DETECTION

## ALTAIR® 4 Multigas Detector

ALTAIR 4 Multigas Detector (UL approved), with data logging feature, charger, calibration cap and tubing, CD manual

UL Approval	CSA Approval	Description
10085981	10089091	ALTAIR 4 Multigas Detector (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S)
10085989	10089094	ALTAIR 4 Multigas Detector with MotionAlert feature (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S)
10089103	10089092	ALTAIR 4 Multigas Detector (LEL, O <sub>2</sub> , CO)
10089105	10089095	ALTAIR 4 Multigas Detector with MotionAlert feature (LEL, O <sub>2</sub> , CO)
10089104	10089093	ALTAIR 4 Multigas Detector (LEL, O <sub>2</sub> )
10089106	10089096	ALTAIR 4 Multigas Detector with MotionAlert feature (LEL, O <sub>2</sub> )

### Accessories

10069894	SS Suspender clip
10089322	Belt clip
10048280	34L quad gas mix (1.45% CH <sub>4</sub> , 15% O <sub>2</sub> , 60 ppm CO, 20 ppm H <sub>2</sub> S)
10045035	58L quad gas mix (1.45% CH <sub>4</sub> , 15% O <sub>2</sub> , 60 ppm CO, 20 ppm H <sub>2</sub> S)
10047596	Universal pump probe (UL)
10055576	Universal pump probe (CSA)
10089321	Calibration assembly (cap, tube, connector)
10082834	JetEye IR adapter with USB connector
10088099	MSA Link Software CD-ROM
10086639	Charger cradle assembly
10087913	North American power supply

### Sensors

10089116	Combustible sensor
10046946	O <sub>2</sub> sensor
10089117	CO/H <sub>2</sub> S duo-tox sensor
10089118	Sensor replacement kit (duo-tox, O <sub>2</sub> , combustible)

# THERMALTRAC™ THERMAL IMAGER

Advanced infrared imaging technology  
sees through dark, no-light environment

A proven handheld camera-type tool with a sensor that reacts to infrared energy and displays visible images of elusive or hidden individuals, heat sources, etc., on a 3.5" screen. Easily deployable from a belt tether, this thermal imager provides 1-button operation and immediate results. With many outstanding features, from tough, durable housing to best-in-class image quality and a 2X digital zoom.



*An excellent tool for law enforcement*

- Time-proven design
- Sensor technology that works for you
- High-tech functionality, yet easy to use
- Instant 1-button operation
- Extends your search capabilities
- Saves time, money, human resources



EVER  
THERMAL IMAGING

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thermal imaging



### Video Capture System

The Video Capture System (VCS) records the complete scene that the TIC sees. The system is capable of recording up to two hours of video, virtually eliminating the risk of a user missing critical information. The VCS is ideal for training and documentation purposes. A standard card reader stores the information and simply connects to a PC/laptop to download the recorded video. Still pictures can be captured from the video footage using available software programs like "Print Screen."

### ThermalTrac Thermal Imager Configurations

ThermalTrac Thermal Imager c/w Standard Charger, Two Batteries, Wrist Strap, and Carrying Case	10076688
ThermalTrac Thermal Imager c/w Standard Charger and Vehicle Charger, Two Batteries, Retractable Lanyard, and Carrying Case	10076689
ThermalTrac Thermal Imager featuring a 2X Digital Zoom c/w Standard Charger, Two Batteries, Wrist Strap, and Carrying Case	10076690
ThermalTrac Thermal Imager featuring a 2X Digital Zoom c/w Standard Charger and Vehicle Charger, Two Batteries, Retractable Lanyard, and Carrying Case	10076691

### Accessories for ThermalTrac Imager

Charger 110-220V AC with cigarette lighter adapter	10041100
Lithium Ion Battery	10038412
Vehicle-Mounted Charger	10067565
Wrist Strap	10039516
Shoulder Strap	10039515
Retractable Lanyard	10040226
Carabiner	10040005
Sun Shroud	10039603
Reflective Label ID Kit	10062184
Disposable Display Covers - Red	10065679
Non-Charging Mounting Bracket	10067707
Tripod Adapter	10040229
Video Capture System	10071750



Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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