

Emergency Responder Product Catalog



LEGACY.

From the time Bullard invented the hard hat in 1919, our Company began a legacy of creating products that are uniquely designed with user input. We are a Company that knows the specific needs of the fire service and law enforcement. Bullard thermal imagers and fire and rescue helmets reflect that knowledge and experience. With Bullard products, you'll find the ultimate in toughness and durability. You'll also find extraordinary service and the most innovative designs.

Legacy. At Bullard, we're proud to provide superior products to the heroes of the fire service and law enforcement agencies. As a fourth-generation, family-owned company, Bullard continues to focus on saving lives with quality safety products.



INNOVATION.

Innovation. Bullard engineers designed the Company's first fire helmet in 1930. Our Company quickly became a technology leader in this industry, developing and introducing the first fiberglass fire helmet in 1947, the first NFPA-approved thermoplastic fire helmet in 1983, and the first ratchet headband used in a fire helmet in 1986.

Bullard established the industry standard for thermal imaging when it introduced the legendary Bullard TI in 1998. Our Company quickly secured the number one position in the market with this breakthrough product. Since that time, Bullard has developed innovative products from the simplest personal issue thermal imager to the most advanced command unit. Our innovative approach to product design brings thermal imagers that are developed to the specific needs of your job...whether it is the fire service or law enforcement. Bullard offers firefighters and law enforcement officers the tough products they need to get the job done, at price points to meet the needs of every department.

Table of Contents



| | |
|---|-----------|
| Fire Helmet Product Line | 2 |
| UST Series | 4 |
| Bullard Feature: Matte Finish for Fire Helmets. | 6 |
| UST Parts and Accessories. | 8 |
| FX and PX Series. | 12 |
| PX. | 13 |
| FX. | 14 |
| Bullard Feature: Advantages of a Lightweight Helmet. | 15 |
| FX and PX Parts and Accessories. | 15 |
| Bullard Feature: Helmet Composition. | 19 |
| LT Series. | 20 |
| LT Parts and Accessories. | 22 |
| Bullard Feature: NFPA Standards. | 25 |
| AX ARFF Series. | 26 |
| AX. | 27 |
| AX Accessories. | 28 |
| Bullard Feature: Fire Helmet Myths, part 1. | 29 |
| Wildfire® Series. | 30 |
| Wildfire. | 31 |
| Wildfire Parts and Accessories. | 32 |
| Bullard Feature: Fire Helmet Myths, part 2. | 35 |
| Rescue Helmets. | 36 |
| USRX and Advent. | 37 |
| Rescue Series Parts and Accessories. | 38 |
| Bullard Features: Customize Your Helmet. | 41 |
| Helmet Ornamentation and Leather Front. | 42 |
| Leather Front Ordering. | 52 |
| Ceremonial Plaques. | 53 |
| | |
| Thermal Imaging Product Line | 54 |
| Firefighting TI. | 54 |
| Applications for the Fire Service. | 56 |
| T4. | 58 |
| Bullard Feature: Thermal Throttle and Super Red Hot. | 59 |
| T320. | 60 |
| T3MAX. | 61 |
| Bullard Feature: SceneSaver Digital Recording. | 61 |
| T3XT. | 62 |
| Bullard Feature: "Get the Picture" Newsletter. | 62 |
| Transmitters and Receivers. | 63 |
| SceneCatcher® Digital Video Recorder. | 64 |
| Firefighting TI Accessories. | 65 |
| TI Commander | 69 |
| Bullard Feature: Transmitters. | 70 |
| TIx and MX. | 72 |
| Funding Information for Firefighters | 84 |
| Save-A-Life Club. | 75 |
| Law Enforcement TI. | 76 |
| Applications for Law Enforcement. | 78 |
| S2. | 80 |
| SE35. | 81 |
| Transmitters and Receivers. | 82 |
| SceneCatcher Digital Video Recorder. | 83 |
| Bullard Feature: Image Interpretation. | 84 |
| Law Enforcement TI Accessories. | 84 |
| SOAR Club. | 87 |
| Bullard Feature: Service Commitment. | 88 |
| Funding Information for Law Enforcement | 89 |
| | |
| Index by Topic. | 90 |
| Index by Part Number. | 92 |





Fire and Rescue Helmets





Building on the expertise we developed in the manufacturing of hard hats, Bullard began building structural firefighter helmets in the 1930s. As with all our products, continuous improvement has benefited our line of award-winning fire helmets. From the contemporary to the traditional, our helmets are proven performers in the demanding firefighting environment.

UST Helmet

Firedome UST structural firefighter helmets provide classic traditional style in an affordable, easy-to-maintain design. With an outer shell made of Thermoglas®, the UST provides toughness and durability. Chipping and cracking found in conventional fiberglass is virtually eliminated. Thermoglas qualities also include the highest level of chemical resistance and stability at extreme temperatures.

1 Tough Thermoglas outer shell

Available in either a high-gloss or a matte finish. Pigmented resin color throughout the shell minimizes visibility of chipping and cracking.

2 Full inner impact liner system

Protects head against heat rise and provides an extra layer of protection against falling objects.

3 Carved brass eagle/maple leather front holder

Intricately-designed brass eagle or maple leaf front holder accommodates any leather front.

4 Custom leather front (sold separately)

Personalize your helmet with custom leather front; many options available.

5 4" optically correct faceshield or ESS Goggle

Optically correct faceshield eliminates distortion and reduces eye stress and fatigue; or choose industry-leading ESS goggles.

6 Nomex® ear cover

Nomex is a heat and flame resistant fabric made by DuPont.

7 Chinstrap with postman's slide

Easy to adjust and secure

8 Sure-Lock® ratchet headband with comfort brow pad
(leather brow pad optional)

Sure-Lock is the top performing ratchet headband, made exclusively by Bullard. Comfort brow pad is removable and washable or replaceable.

9 Leather ratchet cover
(not shown)

Durable and comfortable leather ratchet cover is replaceable in case of damage.

10 Scotchlite reflective striping

The highest quality reflective material available; retains reflectivity to 500° F (260° C).

11 Stainless steel D-Ring

Large, durable D-ring allows you to hang your helmet on virtually any size hook.

12 Crown straps with crown pad

Comfortable 6-point suspension system with soft crown pad that provides an extra level of comfort while wearing the helmet.

13 Three position ratchet height adjuster
(not shown)

The height adjuster is the base of our 12-point comfort system. Adjust to ride high, low, or somewhere in the middle for a custom fit.

NFPA 1971 Certified



USTM Colors:



UST Colors:



UST Series | Thermoglas® Fire Helmets

⊗ **NOTE:** Leather front is sold separately for UST Series Fire Helmets.

| | |
|--------------|--|
| UST5 | <p>Traditional Firedome Helmet NFPA 1971, 2007</p> <ul style="list-style-type: none"> • Black high-heat Thermoplastic inner shell with Urethane impact liner (R920) • Sure-Lock® ratchet headband (R637) • 6-point nylon crown straps with crown pad (R112) • Nomex® chinstrap with quick-release buckle and postman's slide fastener (R148) • Black rip-stop Nomex ear/neck protector (R721) • 4" hard-coated optically correct faceshield (R330) • Leather ratchet cover (R160) • Removable fire resistant cotton brow pad (R635) • Cotton crown pad (R636) • Brass eagle for 5" leather front • Leather front sold separately |
| R535 | Scotchlite® Reflective Stripes |
| USTM5 | <p>Matte finish version of above helmet</p> <ul style="list-style-type: none"> • Get the look of leather with the durability of Thermoglas®. |
| UST6 | <p>Traditional Firedome Helmet NFPA 1971, 2007</p> <p>Same as Model UST above except:</p> <ul style="list-style-type: none"> • 4" hard-coated optically correct faceshield (R334) • Stars and Stripes brass eagle for 6" leather front • Leather front sold separately |



USTM6 **Matte finish version of above helmet**

UST6ML **Canadian Maple Leaf Helmet**

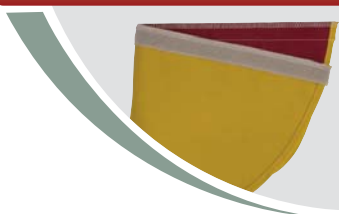
- **Bullard Exclusive:** Canadian Leather Front Holder
- Maple leaf version of Model UST6 above

USTM6ML **Maple leaf helmet with matte finish**

- Canadian Leather Front Holder
- Maple leaf version of Model USTM6 above



Options or Substitutes for UST Models at No Additional Charge:



- R325 6" Faceshield
- Red-Orange Reflective Striping
- R721YLW Yellow Nomex Ear/Neck Protector
- ESS IZ2 Goggle
- ESS IZ3 Goggle
- OR600ML Maple Leaf Leather Front Holder (6" only)

UST Series | Thermoglas® Fire Helmets

✳ **NOTE:** Leather front is sold separately for UST Series Fire Helmets.

| | |
|----------------------|---|
| USTG2 | Traditional Firedome Helmet NFPA 1971, 2007 Same as Model UST except: • IZ2 Detachable ESS goggle in place of faceshield |
| USTMG2 | Matte finish version of above helmet |
| USTG26 | Traditional Firedome Helmet NFPA 1971, 2007 Same as Model UST except: • IZ2 Detachable ESS goggle in place of faceshield • Stars and Stripes brass eagle for 6" leather front |
| USTMG26 | Matte finish version of above helmet |
| USTBRK | Traditional Firedome Helmet Non-NFPA Configuration Same as Model UST except: • Bourke eyeshield in place of faceshield |
| USTMBRK | Matte finish version of above helmet |
| UST6BRK | Traditional Firedome Helmet Non-NFPA Configuration Same as Model UST except: • Bourke eyeshield in place of faceshield • Brass eagle |
| USTM6BRK | Matte finish version of above helmet |
| NEW! USTG26ML | Canadian Maple Leaf Helmet • Same as USTG26, but with Maple Leaf leather front holder |
| USTMG26ML | • Same as USTMG26, but with Maple Leaf leather front holder |
| UST6BRKML | • Same as UST6BRK, but with Maple Leaf leather front holder |
| USTM6BRKML | • Same as USTM6BRK, but with Maple Leaf leather front holder |



Bullard Feature

Matte Finish for Fire Helmets

Get the look of traditional leather fire helmets, without sacrificing safety and durability. The matte finish UST fire helmet offers a textured, leather-like style in a tough Thermoglas® shell.

Matte finish UST helmets are available in black, red and yellow.



UST Series | Thermoglas® Fire Helmets

✳ **NOTE:** Leather front is sold separately for UST Series Fire Helmets.

| | |
|---------------------|---|
| USTG2BRK | Traditional Firedome Helmet NFPA 1971, 2007 Same as Model UST except: <ul style="list-style-type: none"> • Bourke eyeshield in place of faceshield • IZ2 Detachable ESS goggle in place of faceshield |
| USTMG2BRK | Matte finish version of above helmet |
| USTG26BRK | Traditional Firedome Helmet NFPA 1971, 2007 Same as Model UST except: <ul style="list-style-type: none"> • Bourke eyeshield in place of faceshield • IZ2 Detachable ESS goggle in place of faceshield • Brass eagle |
| USTMG26BRK | Matte finish version of above helmet |
| USTG26BRKML | Canadian Maple Leaf Helmet <ul style="list-style-type: none"> • Same as USTG26BRK, but with Maple Leaf leather front holder |
| USTMG26BRKML | <ul style="list-style-type: none"> • Same as USTMG26BRK, but with Maple Leaf leather front holder |



✳ **NOTE:** Our USTM matte finish helmets are now available in the same configurations listed for our UST models. Just specify the matte finish when ordering. Available in black, red and yellow.

Options or Substitutes for UST Models at No Additional Charge:



- R325 6" Faceshield
- Red-Orange Reflective Striping
- R721YLW Yellow Nomex Ear/Neck Protector
- ESS IZ2 Goggle
- ESS IZ3 Goggle
- OR600ML Maple Leaf Leather Front Holder (6" only)

UST Series | Replacement Parts & Accessories

| | | |
|------------|--|---|
| R309 | Bourke Eyeshield |  |
| IZ2 | Innerzone 2B <ul style="list-style-type: none"> • NFPA 1971, 2007 certified • 2-piece snap-on/snap-off strap • Anti-scratch/anti-fog lens • Speed clip Quick-Adjust system |  |
| IZ3 | Innerzone 3B <ul style="list-style-type: none"> • NFPA 1971, 2007 certified • 1-piece wraparound strap • Anti-scratch/anti-fog lens • Speed clip Quick-Adjust system |  |
| EL3 | 10-pack NFPA Lenses - clear |  |
| EZEX | 10-pack Snap Helmet Mount Brackets <ul style="list-style-type: none"> • For use with IZ2 |  |
| ES4 | 10-pack Innerzone 2-piece Strap <ul style="list-style-type: none"> • For use with IZ2 |  |
| ES5 | 10-pack Innerzone 1-piece Strap <ul style="list-style-type: none"> • For use with IZ3 |  |
| ESSARSLV-N | Goggle Sleeve <ul style="list-style-type: none"> • Nomex® • Flame retardant |  |

UST Series | Replacement Parts & Accessories

R330

Faceshield

- 4" Faceshield
- Hard-coated PPC
- PPC is known for its balance between toughness and temperature
- Enhanced optics
- Mounting hardware (R151) not included



R334

Faceshield

- 4" Faceshield
- Hard-coated Polyarylate
- Polyarylate is known for its high temperature performance
- Mounting hardware (R156) not included



R112

Crown Strap Assembly

- Nylon
- With crown pad



R152

Faceshield Mounting Hardware Kit

- Aluminum mounting brackets
- Glass reinforced nylon knobs
- Stainless steel studs
- Brass T-nuts
- Use with R330 or R325 Faceshield only



R156

Faceshield Mounting Hardware Kit (Not pictured)

- Same as Model R152 except:
- Use with R334 Faceshield only

OR503

5" Brass Eagle

- With mounting hardware



OR600

6" Brass Stars & Stripes Eagle

- With mounting hardware



R157

Replacement Screws for Eagle (Not pictured)

- Set of 10 screws and 10 acorn nuts

OR600ML





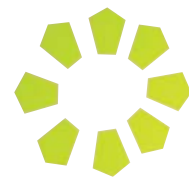
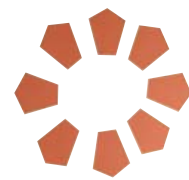
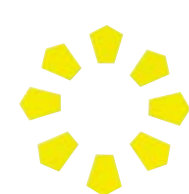

6" Brass Maple Leaf Leather Front Holder

- Bullard Exclusive
- Mounting hardware

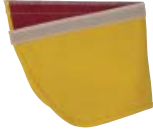


NEW!

UST Series | Replacement Parts & Accessories

| | | |
|---------------------|---|---|
| <p>R148</p> | <p>Chinstrap</p> <ul style="list-style-type: none"> • Nomex® • Quick-release buckle and postman's slide fastener • Includes spacers and screws for mounting |  |
| <p>R637</p> | <p>Sure-Lock Ratchet Headband</p> <ul style="list-style-type: none"> • Replaceable brow pad (R635) • Height adjuster (R628) • Leather ratchet cover (R160) |  |
| <p>R637L</p> | <p>Sure-Lock® Ratchet Headband Same as Model R637 above with</p> <ul style="list-style-type: none"> • Leather brow pad |  |
| <p>R160</p> | <p>Ratchet Cover</p> <ul style="list-style-type: none"> • Leather ratchet cover • For all Bullard ratchet suspensions |  |
| <p>R535</p> | <p>Retro-Reflective Stripes</p> <ul style="list-style-type: none"> • Fluorescent lime-yellow Scotchlite® • Adhesive-backed • 2 3/16" x 2 5/8" • Set of 8 |  |
| <p>R539</p> | <p>Retro-Reflective Stripes</p> <ul style="list-style-type: none"> • Fluorescent red-orange Scotchlite • Adhesive-backed • 2 3/16" x 2 5/8" • Set of 8 |  |
| <p>R545</p> | <p>Retro-Reflective Stripes</p> <ul style="list-style-type: none"> • Fluorescent lime-yellow Triple Trim • Adhesive-backed • 3" x 2 5/8" • Set of 8 |  |
| <p>R549</p> | <p>Retro-Reflective Stripes</p> <ul style="list-style-type: none"> • Fluorescent red-orange Triple Trim • Adhesive-backed • 3" x 2 5/8" • Set of 8 |  |

UST Series | Replacement Parts & Accessories

| | | |
|----------------|--|---|
| R635 | Brow Pad <ul style="list-style-type: none"> • Fire retardant • Jersey knit cotton |  |
| R635L | Leather Brow Pad <ul style="list-style-type: none"> • Fire retardant | |
| R721 | Ear/Neck Protector <ul style="list-style-type: none"> • Nomex® • Rip-stop • Flame retardant cotton lining • Black color |  |
| R721YLW | Ear/Neck Protector Same as Model R721 above, except yellow color |  |
| R726 | Ear/Neck Protector with Throat Strap <ul style="list-style-type: none"> • Nomex • Rip-stop • Flame retardant cotton lining • Black color |  |
| R726YLW | Ear/Neck Protector with Throat Strap <ul style="list-style-type: none"> • Nomex • Rip-stop • Flame retardant cotton lining • Yellow color |  |
| R741 | Ear/Neck Protector <ul style="list-style-type: none"> • PBI®/Kevlar® • Rip-stop • Flame retardant cotton lining • Tan color |  |
| R746 | Ear/Neck Protector with Throat Strap <ul style="list-style-type: none"> • PBI/Kevlar • Rip-stop • Flame retardant cotton lining • Tan color |  |
| R921 | Inner Crown System <ul style="list-style-type: none"> • Inner shell with Urethane impact liner • Sure-Lock® ratchet headband (R637) • Brow pad (R635) • Cotton crown pad (R636) and 6-point nylon crown strap assembly (R112) • Velcro® strips |  |

FX Series Helmets and PX Series Helmets

Bullard comfort, quality and durability in a lightweight contemporary design gives firefighters the stability and versatility needed to tip the odds in their favor. With seven special models to choose from, the Firedome FX and PX Series helmets comply with NFPA and CE requirements, as well as advanced military fire standards. FX and PX helmets have a lower profile and less restrictive, compact design than traditional styles.

The PX Series helmets have an advanced, specially formulated thermoplastic outer shell, which makes PX the ideal fire helmet for heavy duty. No other fire helmet has the proven on-the-job performance or long-lasting durability of the PX.

FX composite helmets are resistant to chemical attack and stable under high heat exposure. Featuring color pigment that is molded directly throughout the outer shell, nicks and chips are less visible.

1 Fiberglass (FX) or thermoplastic (PX) outer shell

Both the FX and PX outer shells have color pigment molded throughout the shell. The FX helmet features a chemical-resistant fiberglass outer shell, while the PX offers a specially formulated advanced thermoplastic shell offering the ultimate in impact and penetration resistance.

2 Full inner impact liner system

Protects head against heat rise and provides an extra layer of protection against falling objects.

3 4" optically correct faceshield or ESS goggles

Optically correct faceshield eliminates distortion and reduces eye stress and fatigue; or choose industry-leading ESS goggles.

4 Nomex ear cover

Nomex is a heat and flame resistant fabric made by DuPont. Provides premium protection in high heat situations.

5 Chinstrap with postman's slide

Easy to adjust and secure.

6 Sure-Lock ratchet headband with comfort brow pad (leather brow pad optional):

Sure-Lock is the top performing ratchet headband, made exclusively by Bullard. Comfort brow pad is removable and washable or replaceable.

7 Scotchlite reflective markings

Highest quality reflective material available; retains reflectivity to 500° F (260° C).

8 Stainless steel D-ring

Large, durable D-ring allows you to hang your helmet on virtually any size hook.

9 Crown straps with crown pad

Comfortable 6-point suspension system with soft crown pad that provides an extra level of comfort while wearing the helmet.

10 Three position ratchet height adjuster (not shown)

The height adjuster is the base of our 12-point comfort system. Adjust to ride high, low, or somewhere in the middle for a custom fit.



FX and PX Colors:



PX

Firedome® Helmet NFPA 1971, 2007

- Ultem® thermoplastic outer shell
- Urethane impact liner (R920)
- Black high-heat Thermoplastic inner shell (R920)
- Sure-Lock® ratchet headband and 6-point nylon crown strap (R637)
- Nomex® chinstrap with quick-release buckle and postman's slide fastener (R144)
- Black rip-stop Nomex® ear/neck protector (R721)
- 4" hard-coated optically correct faceshield (R330)
- Leather ratchet cover (R160)
- Removable fire resistant cotton brow pad (R635)
- Cotton crown pad (R636)
- Scotchlite® reflective striping (R533)



PXG

Firedome Helmet NFPA 1971, 2007

- Ultem® thermoplastic outer shell
- Urethane impact liner (R920)
- Black high-heat Thermoplastic inner shell (R920)
- Sure-Lock ratchet headband and 6-point nylon crown strap (R637)
- Nomex chinstrap with quick-release buckle and postman's slide fastener (R144)
- Black rip-stop Nomex ear/neck protector (R721)
- ESS Goggle (IZ3)
- Leather ratchet cover (R160)
- Removable fire resistant cotton brow pad (R635)
- Cotton crown pad (R636)
- Scotchlite® reflective striping (R533)



Options or Substitutes for PX and PX Models at No Additional Charge:



- R325 6" Faceshield
- Red-Orange Reflective Scotchlite Striping
- R721YLW Yellow Nomex Ear/Neck Protector
- ESS IZ2 Goggle

FX Series | Structural Fire Fighting Helmets

FX

Fire dome® Helmet NFPA 1971, 2007

- Fiberglass outer shell
- Urethane impact liner (R920)
- Black high-heat thermoplastic inner shell (R920)
- Sure-Lock® ratchet headband and 6-point nylon crown strap (R637)
- Nomex® chinstrap with quick-release buckle and postman's slide fastener (R144)
- Black rip-stop Nomex ear/neck protector (R721)
- 4" hard-coated optically correct faceshield (R330)
- Leather ratchet cover (R160)
- Removable fire resistant cotton brow pad (R635)
- Cotton crown pad (R636)
- Scotchlite® reflective striping (R533)



FXG

Fire dome Helmet NFPA 1971, 2007

- Fiberglass outer shell
- Urethane impact liner (R920)
- Black high-heat thermoplastic inner shell (R920)
- Sure-Lock® ratchet headband and 6-point nylon crown strap (R637)
- Nomex® chinstrap with quick-release buckle and postman's slide fastener (R144)
- Black rip-stop Nomex® ear/neck protector (R721)
- ESS Goggle (IZ3)
- Leather ratchet cover (R160)
- Removable fire resistant cotton brow pad (R635)
- Cotton crown pad (R636)
- Scotchlite® reflective striping (R533)



FXA1

Fire dome Helmet NFPA 1971, 2007/US Navy

- Fiberglass outer shell
- Urethane foam impact liner (R920)
- Black high-heat inner shell (R920)
- Sure-Lock ratchet headband and 6-point nylon crown strap (R637)
- Nomex chinstrap with quick-release buckle (R146)
- Black Rip-stop PBI®/Kevlar®, moisture barrier Nomex ear/neck protector with throat strap (R727)
- 4" hard-coated optically correct faceshield (R330)
- Removable fire resistant cotton brow pad (R635)
- Cotton crown pad (R636)
- Scotchlite® reflective striping (R533)



Options or Substitutes for FX Models at No Additional Charge:



- R325 6" Faceshield
- Red-Orange Reflective Scotchlite Striping
- R721YLW Yellow Nomex Ear/Neck Protector
- ESS IZ2 Goggle

IZ2

Innerzone 2B

- NFPA 1971, 2007 Certified
- 2-piece snap-on/snap-off strap
- Anti-scratch/anti-fog lens
- Speed clip Quick-Adjust system



IZ3

Innerzone 3B

- NFPA 1971, 2007 certified
- 1-piece wraparound strap
- Anti-scratch/anti-fog lens
- Speed clip Quick-Adjust system



EL3

10-pack NFPA Lenses - clear



EZEX

10-pack Snap Helmet Mount Brackets

- For use with IZ2



ES4

10-pack Innerzone 2-piece Strap

- For use with IZ2



ES5

10-pack Innerzone 1-piece Strap

- For use with IZ3



ESSARSLV-N

Goggle Sleeve

- Nomex®
- Flame retardant



The Advantages of a Lightweight Helmet

Bullard helmets achieve the optimal level of comfort through a variety of factors. Design expertise is a key element in the lightweight feel of Bullard helmets. By choosing lightweight, but durable, material components and designing a helmet with optimal balance, Bullard heightens the level of comfort the helmet provides.

When weighed, Bullard helmets may not weigh significantly less than other helmets on the market. There is often a difference of only one to two ounces. The design and engineering of the helmet, however, brings Bullard to the head of the class when put through an actual comfort test.



FX Series and PX Series | Replacement Parts & Accessories

| | | |
|----------------|--|---|
| R637 | Sure-Lock® Ratchet Headband <ul style="list-style-type: none"> • Replaceable brow pad (R635) • Height adjuster (R628) • Leather ratchet cover (R160) |  |
| R637L | Sure-Lock® Ratchet Headband Same as Model R637 above with <ul style="list-style-type: none"> • Leather brow pad | |
| R628 | Ratchet Height Adjuster |  |
| R635 | Brow Pad <ul style="list-style-type: none"> • Fire retardant • Jersey knit cotton |  |
| R635L | Leather Brow Pad <ul style="list-style-type: none"> • Fire retardant • Generously padded • Genuine leather | |
| R721 | Ear/Neck Protector <ul style="list-style-type: none"> • Nomex® • Rip-stop • Flame retardant cotton lining • Black color |  |
| R721YLW | Ear/Neck Protector Same as Model R721 above except: <ul style="list-style-type: none"> • Yellow color |  |
| R726 | Ear/Neck Protector with Throat Strap <ul style="list-style-type: none"> • Nomex • Rip-stop • Flame retardant cotton lining • Black color |  |
| R726YLW | Ear/Neck Protector with Throat Strap Same as Model R726 above except: <ul style="list-style-type: none"> • Yellow color |  |
| R741 | Ear/Neck Protector <ul style="list-style-type: none"> • PBI®/Kevlar® • Rip-stop • Flame retardant cotton lining • Tan color |  |

FX Series and PX Series | Replacement Parts & Accessories

| | |
|-------------|---|
| R746 | Ear/Neck Protector with Throat Strap <ul style="list-style-type: none">• PBI®/Kevlar®• Rip-stop• Flame retardant cotton lining• Tan color |
|-------------|---|



| | |
|-------------|--|
| R921 | Inner Crown System <ul style="list-style-type: none">• Inner shell• Sure-Lock® ratchet headband (R637)• Brow pad (R635)• Crown pad (R636)• Urethane impact liner• 6-point nylon crown strap assembly (R112)• Velcro® strips |
|-------------|--|



| | |
|--------------|---|
| R921L | Inner Crown System <p>Same as Model R921 above with</p> <ul style="list-style-type: none">• Leather brow pad |
|--------------|---|

| | |
|-------------|--|
| R144 | Chinstrap-Standard For FX/PX <ul style="list-style-type: none">• Nomex• Quick-release buckle and postman's slide fastener• Includes spacers and screws for mounting |
|-------------|--|



| | |
|-------------|---|
| R146 | Chinstrap-Standard For FH Series; Option For FX/PX <ul style="list-style-type: none">• Nomex• Quick-release only• Includes spacers and screws for mounting |
|-------------|---|



| | |
|-------------|---|
| R160 | Ratchet Cover <ul style="list-style-type: none">• Leather ratchet cover• Fits all Bullard ratchet suspensions |
|-------------|---|



| | |
|-------------|---|
| R112 | Crown Strap Assembly <ul style="list-style-type: none">• Nylon |
|-------------|---|



FX Series and PX Series | Replacement Parts & Accessories

R325 **Faceshield**

- 6" optically correct faceshield
- Hard-coated polycarbonate
- Polycarbonate is known for impact resistance
- Mounting hardware (R151) not included



R330 **Faceshield**

- 4" optically correct faceshield
- Hard-coated PPC
- PPC is known for its balance between toughness and temperature
- Enhanced optics
- Mounting hardware (R151) not included



R333 **Faceshield**

- 4" optically correct faceshield
- Hard-coated Polyarylalate
- Polyarylalate is known for its high temperature performance
- Mounting hardware (R156) not included



R151 **Faceshield Mounting Hardware Kit**

- Aluminum mounting brackets
- Glass reinforced nylon knobs
- Stainless steel studs
- Brass T-nuts



R533 **Retro-Reflective Stripes**

- Lime-yellow Scotchlite® stripes
- 1" x 4" trapezoid
- Set of 5



R534 **Retro-Reflective Stripes**

- Red-orange Scotchlite stripes
- 1" x 4" trapezoid
- Set of 5



What Goes Into a Bullard Fire Helmet

Composite Helmets

Composite helmet shells are made up of a mixture of thermoset resins and glass fiber. The thermoset resin is the “glue” which is needed to hold glass fibers together in a composite helmet shell. Thermoset resins are a family of plastics that do not melt but chemically degrade at high temperatures. Thermoset resins are created by mixing two base materials just like epoxy glues. (Epoxy glues are thermoset resins). One of the ingredients is a catalyst that, when combined with the other agents and heat during molding, will solidify the mixture, locking itself and the glass fibers into a rigid state. In compression molding applications, very little catalyst is used so that the liquid resin remains stable at room temperature; the heat and pressure of the molding operation initiates the chemical reaction to solidify the resin.

Thermoset resins by themselves have relatively little strength; the strength of a thermoset composite material comes primarily from the fibers of glass or other materials that are bonded together by the resin.

The challenge in designing an effective composite material is getting the right mix of a good thermoset resin and high content of glass. The glass fiber is heavier than the resin, so getting the right mix also creates the best potential for a lighter helmet shell. Most fire helmets today have a glass content of approximately 50%.

High Performance Thermoplastics

Until relatively recently, it was possible to obtain either great heat resistance or great impact resistance, but not both in the same material. Thanks to new thermoplastic advancements, thermoplastics can now exhibit a high quality surface finish, impact resistance and heat resistance. While today's advanced thermoplastics can perform at temperatures exceeding 500° F (260° C), thermoplastics can be sensitive to some chemical solvents.



LT Series Helmets

Bullard presents the newly re-engineered LT series helmet. This advanced, lightweight, thermoplastic structural fire helmet is the result of 20 years of Bullard polymer technology and engineering expertise.

Beyond the compact, low profile design, the LT Series features the innovative Quick-Attach™ Blade System for rapid installation and removal of both faceshields and goggles. Simply press on or off the faceshield or goggle in seconds, creating flexibility to choose the right option for the right application without time consuming component changes.

The LT also offers the lightest configuration in an NFPA 1971 compliant fire helmet on the market, providing a reduction in stress and fatigue as a result of eliminating size and weight, without giving up performance.

With these performance and design strengths, the LT Series sets an industry leading standard for structural fire helmets.

1 GE Ultem thermoplastic outer shell

The durable heat-resistant thermoplastic shell has color pigment molded throughout and edge beading that will not melt, drip or ignite when tested to NFPA.

2 Ribbed inner impact shell

Re-engineered to allow more headroom, but still performs like a traditional foam impact cap, protecting against falling objects and heat rise.

3 Sure-Lock ratchet headband

Sure-Lock is the top performing ratchet headband, made exclusively by Bullard. Comfort brow pad is removable and washable or replacable.

4 Rip-stop Nomex ear/neck protector

Heat-resistant and backed with two layers of FR cotton flannel for comfort and protection. Nomex is a heat and flame resistant fabric made by DuPont. Provides premium protection in high heat situations.

5 Four-point crown strap assembly

Comfortable suspension system for extra protection against impact.

6 PPC 4" faceshield

Rugged, optically correct faceshield eliminates distortion and reduces eye stress and fatigue.

7 Nomex chinstrap

Chinstrap with quick release buckle is comfortable and fire resistant.

8 Quick-Attach Blade System

The easiest way to quickly change out face protection; offered exclusively by Bullard

9 Scotchlite reflective stripes

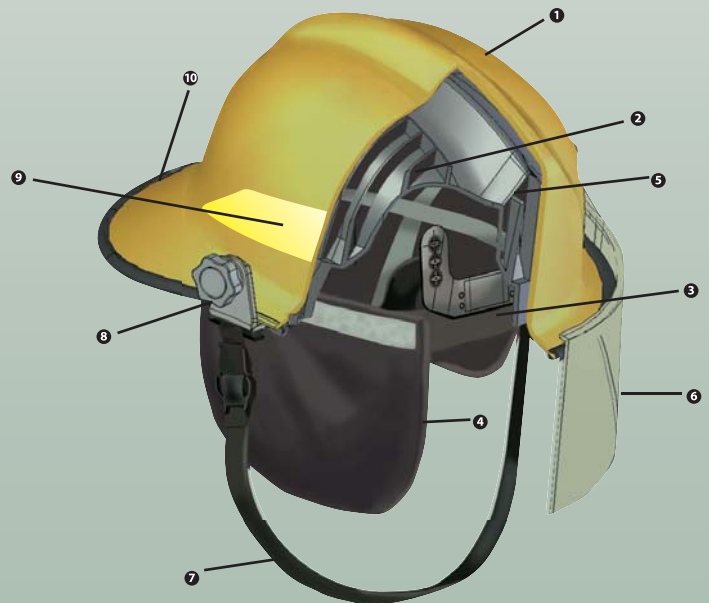
Highest quality reflective material available; retains reflectivity to 500° F (260° C).

10 Stainless steel D-ring

Large, durable D-ring allows you to hang your helmet on virtually any size hook.

11 Three position ratchet height adjuster (not shown):

The height adjuster is the base of our 12-point comfort system. Adjust to ride high, low, or somewhere in the middle for a custom fit.



LT Colors:



LT Series | Structural Fire Fighting Helmets

LTX

Deluxe Helmet System NFPA 1971, 2007

- Inner Crown System (R929)
- Sure-Lock® ratchet suspension (R624)
- Black rip-stop Nomex® ear/neck protector (R721)
- Quick-Attach faceshield (R330)
- Quick-Release buckle chinstrap (R142)
- Removable fire resistant cotton brow pad (R634)
- Quick-Release/Postman slide chinstrap (R141)
- Edge beading
- Leather Ratchet cover (R160)
- Scotchlite® reflective striping (R533)



LTG4X

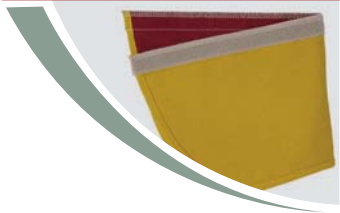
Option/Deluxe Helmet System NFPA 1971, 2007

Same as Model LTX above except:

- Quick-Attach ESS goggle in place of faceshield (IZ4)











Options or Substitutes for LT Models at No Additional Charge:



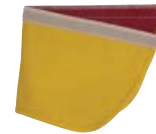
- R325 6" Faceshield
- Red-Orange Reflective Scotchlite Striping
- R721YLW Yellow Nomex Ear/Neck Protector

LT Series | Replacement Parts & Accessories

| | | |
|--------------------|--|---|
| <p>R142</p> | <p>Standard Chinstrap with Quick Release Buckle</p> <ul style="list-style-type: none"> • Nomex® • Quick-release only • Includes spacers and screws for mounting • Designed for LT Model |  |
| <p>R141</p> | <p>Chinstrap with Quick Release and Postman's Slide</p> <ul style="list-style-type: none"> • Nomex • Quick-release buckle and postman's slide fastener • Includes spacers and screws for mounting • Designed for LTX Model |  |
| <p>R154</p> | <p>Quick-Attach Faceshield Hardware</p> <ul style="list-style-type: none"> • Aluminum washers • Glass reinforced nylon knobs • Stainless steel studs • Brass T-nuts • Glass reinforced nylon Quick-Attach blades |  |
| <p>R155</p> | <p>Quick-Attach Goggle Hardware</p> <ul style="list-style-type: none"> • Glass reinforced nylon Quick-Attach blades • Stainless steel machine screws and nuts |  |
| <p>R160</p> | <p>Ratchet Cover</p> <ul style="list-style-type: none"> • Leather ratchet cover • Fits all Bullard ratchet suspensions |  |
| <p>R325</p> | <p>Faceshield</p> <ul style="list-style-type: none"> • 6" optically correct faceshield • Hard-coated polycarbonate • Polycarbonate is known for impact resistance • Mounting hardware (R154) not included |  |
| <p>R330</p> | <p>Faceshield</p> <ul style="list-style-type: none"> • 4" optically correct faceshield • Hard-coated PPC • PPC is known for its balance between toughness and temperature • Enhanced optics • Mounting hardware (R154) not included |  |
| <p>R333</p> | <p>Faceshield</p> <ul style="list-style-type: none"> • 4" optically correct faceshield • Hard-coated Polyarylalate • Polyarylalate is known for its high temperature performance • Enhanced optics • Mounting hardware (R154) not included |  |

LT Series | Replacement Parts & Accessories

| | |
|----------------|--|
| R533 | Retro-Reflective Stripes <ul style="list-style-type: none">• Lime-yellow Scotchlite® stripes• 1" x 4" trapezoid• Set of 5 |
| R534 | Retro-Reflective Stripes <ul style="list-style-type: none">• Red-orange Scotchlite stripes• 1" x 4" trapezoid• Set of 5 |
| R624 | Standard Headband with Brow Pad <ul style="list-style-type: none">• Replaceable fire resistant cotton brow pad (R634) |
| R634 | Cotton Brow Pad <ul style="list-style-type: none">• Fire resistant cotton brow pad for ratchet headband (R624) |
| R721 | Ear/Neck Protector <ul style="list-style-type: none">• Nomex®• Rip-stop• Flame retardant cotton lining• Black color |
| R721YLW | Ear/Neck Protector <p>Same as Model R721 above except:</p> <ul style="list-style-type: none">• Yellow color |
| R726 | Ear/Neck Protector with Throat Strap <ul style="list-style-type: none">• Nomex• Rip-stop• Flame retardant cotton lining• Black color |



LT Series | Replacement Parts & Accessories

R726YLW

Ear/Neck Protector with Throat Strap

- Same as Model R726 except:
- Yellow color



R741

Ear/Neck Protector

- PBI®/Kevlar®
- Rip-stop
- Flame retardant cotton lining
- Tan



R746

Ear/Neck Protector with Throat Strap

- PBI/Kevlar
- Rip-stop
- Flame retardant cotton lining
- Tan



R929

Inner Crown System

- Sure-Lock® ratchet headband (R624)
- Brow pad (R634)
- Nylon crown strap assembly
- Velcro® strips
- Black suspension ring



IZ4

Goggle with Quick-Attach Blades

- NFPA 1971, 2007 Certified
- 2-piece strap
- Anti-scratch/anti-fog lens
- Speed clip Quick-Adjust system
- Glass reinforced nylon Quick-Attach blades
- Stainless steel machine screws and nuts



ESSARSLV-N

Goggle Sleeve

- Nomex®
- Flame retardant



NFPA Standards

Who is NFPA?

Established in 1896, the National Fire Protection Association (NFPA) is a leading advocate of fire prevention and is an authoritative source on public safety.

A major focus of NFPA is the development, publication and dissemination of codes and standards for the fire service. NFPA codes and standards are developed by about 250 committees, each of which represents a balance of affected interests.

In fact, the 300 NFPA codes and standards influence every building, process, service, design and installation in the United States, as well as many of those used in other countries.

How do I know if a helmet meets NFPA codes?

Check the label. Look for the compliance statement and the certification organization's mark. The compliance statement indicates that the specific product meets the requirements of the relevant NFPA standards. Language such as "Designed to meet ..." or "Meets the relevant portions of ..." are not true compliance statements. Only products that meet all requirements of a NFPA standard, including independent third-party certification, can carry a compliance statement. You can check for third-party certification by finding the certification organization's mark on the product label. Only product labels with a mark such as those certified by Underwriters Laboratories or the Safety Equipment Institute have met all the rigors of a third-party certification process required by each NFPA product standard.

Are Bullard fire helmets certified to NFPA codes?

Yes. Bullard fire helmets are certified to various NFPA standards. Our Company's strict compliance with these codes can ensure you that Bullard helmets provide a certain standard level of protection. Our helmets have been certified to NFPA standards by the Safety Equipment Institute (SEI). That information, as well as the NFPA compliance statement, is located on the label of each helmet. The listing below shows the NFPA standard for which each Bullard helmet model is certified.

NFPA 1971, 2001

UST Series
UST Matte-Finish
PX Series
FX Series
LT Series
AX Series
USRX Series

NFPA 1977-2005

Wildfire Series

NFPA 1951-2007

USRX Series



AX Series ARFF Firefighting Helmets

AX Series helmets are engineered specifically for the adverse environmental conditions during proximity fire fighting incidents that release high levels of radiant, convective and conductive heat.

The standard AX model is based on the FX structural fire helmet platform. When combined with an aluminized helmet shell cover, special 3-layer aluminized shroud and a 6" gold-coated faceshield, it meets the proximity fire fighting protective helmet requirements of NFPA 1971, 2007 Edition.

1 Fiberglass outer shell

High performance fiberglass designed to help protect against frequent exposure to chemicals and hydrocarbons.

2 Full inner impact liner system

Protects head against heat rise and provides an extra layer of protection against falling objects.

3 6" gold-coated faceshield

NFPA 1976 requires the use of a 6" gold-coated faceshield with anti-scratch lens coating to maximize durability.

4 Sure-Lock ratchet headband with comfort brow pad

Sure-Lock is the top performing ratchet headband, made exclusively by Bullard. Comfort brow pad is removable and washable or replaceable.

5 Aluminized helmet cover

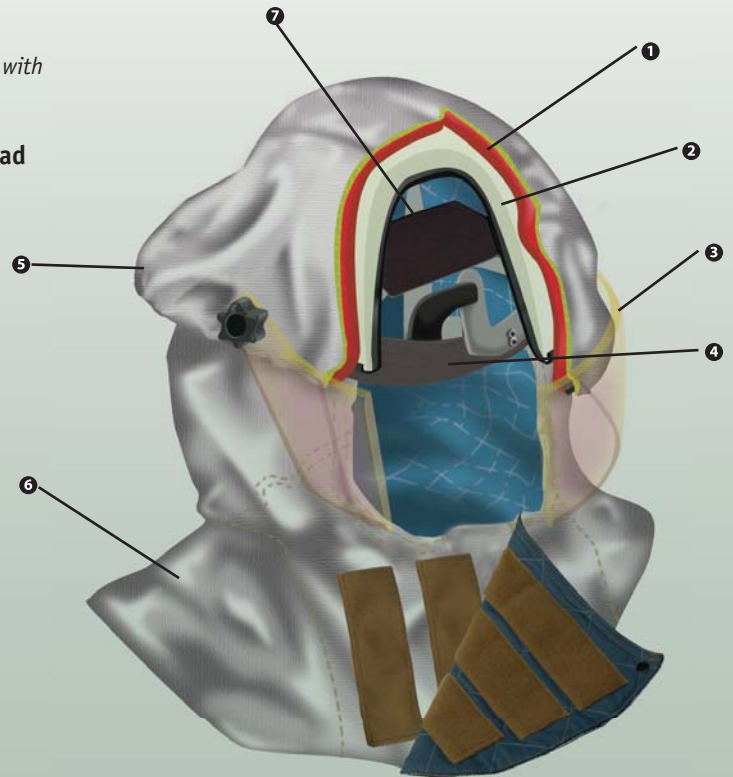
Features an elastic edge binding and Velcro® tabs for easy installation and a secure fit over the outer shell and eight snaps for attaching to the aluminized shroud.

6 Aluminized PBI/Kevlar 4-layer shroud

Attach with snaps to the aluminized helmet cover to block ingress of heat and foreign matter.

7 Crown straps with crown pad

Comfortable 6-point suspension system with soft crown pad that provides an extra level of comfort while wearing the helmet.



AX and ARFF Colors:



AX Series | Air Rescue Fire Fighting Helmets and Shrouds

AX (Contemporary)

Firedome® Helmet (FX) NFPA 1971, 2007

- Fiberglass outer shell
- Urethane impact liner (R920)
- Black high-heat Thermoplastic inner shell (R920)
- Sure-Lock® ratchet headband and 6-point nylon crown strap (R625)
- Nomex® chinstrap with quick-release buckle and postman's slide fastener (R144)
- Aluminized PBI®/Kevlar® helmet cover (R260)
- Aluminized PBI/Kevlar shroud (R757)
- 6" gold-coated optically correct faceshield (R340)



AXMIL

Firedome Helmet with Military Shroud NFPA 1971, 2007

- Same as Model AX above with
- Aluminized PBI/Kevlar shroud (R758)
 - Accommodates chem-warfare mask



AX/UST (Traditional)

Firedome Helmet (UST) NFPA 1971, 2007

- Fiberglass outer shell
- Urethane impact liner (R920)
- Black high-heat Thermoplastic inner shell (R920)
- Sure-Lock ratchet headband and 6-point nylon crown strap (R637)
- Nomex chinstrap with quick-release buckle and postman's slide fastener (R144)
- Aluminized PBI/Kevlar helmet cover (R261)
- Aluminized PBI/Kevlar shroud (R757)
- 6" gold-coated optically correct faceshield (R340)



AX/UST/MIL

Firedome Helmet with Military Shroud NFPA 1971, 2007

- Same as Model AX/UST above with
- Aluminized PBI/Kevlar shroud (R758)
 - Accommodates chem-warfare mask



AXMILB

Firedome Helmet with Military Shroud NFPA 1971, 2007

- Same as Model AXMIL above with
- Military shroud (R758)
 - Bottle cover (R761)
 - Accommodates chem-warfare mask

AX/UST/MILB

Firedome Helmet with Military Shroud NFPA 1971, 2007 (Not pictured)

- Same as Model AX/UST/MIL above with
- Military shroud (R758)
 - Bottle cover (R761)
 - Accommodates chem-warfare mask

AX Series | Helmet and Shroud Accessories

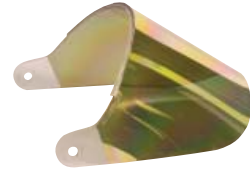
R260 **Helmet Cover (FX/PX)**
 • Aluminized PBI®/Kevlar®



R261 **Helmet Cover (UST)**
 • Aluminized PBI/Kevlar



R340 **Faceshield**
 • 6" optically correct gold-coated



R757 **Shroud**
 • Aluminized PBI/Kevlar
 • Covers ears, neck, face and shoulders
 • For use only with R260 and R261 helmet cover with snaps



R758 **Military Shroud**
 • Aluminized PBI/Kevlar
 • Covers ears, neck, face and shoulders
 • For use only with R260 and R261 helmet cover with snaps
 • Accommodates chem-warfare mask



R761 **Bottle cover**
 • Aluminized PBI/Kevlar



Fire Helmet Myths: Part 1

Many commonly held beliefs are the result of experience with products in the field. While certainly valid, these experiences in many cases have occurred decades ago and may not accurately represent the nature of modern materials and products. Below, you will find some of the more common beliefs as well as the rest of the story.

"I regularly fight fires in conditions as hot as 350°."

False. Ask 100 firefighters what temperatures they typically experience during actual firefighting and you will get 100 different answers. Most believe that they spend large periods of time in temperatures in excess of 350°F. Although there are short periods of time when firefighting exposures exceed these temperatures, the majority of firefighting is done in temperatures less than 300°F. In fact, a larger portion of time is in temperatures below 250°F.

Studies in controlled fire training exercises have demonstrated that firefighters, on their knees, will enter rooms that involve pallet fires with temperatures around 250° at approximately 4' above the floor. Heat stratifies and quickly escalates to temperatures from 500°-1000°F above the 6' level. Firefighters are trained to stay low to avoid exposure to these extreme and deadly heat levels. Unlike real fire exposures, firefighters in training exercises will often expose themselves to high levels of heat for long periods of time to experience the different characteristics of these fires. In real fire environments, firefighters are trained to change the environment and lower the heat exposure with use of agents such as water, foam and/or positive pressure ventilation. Introducing these agents into a fire environment has proven to reduce temperatures in seconds by 200°-300°F.

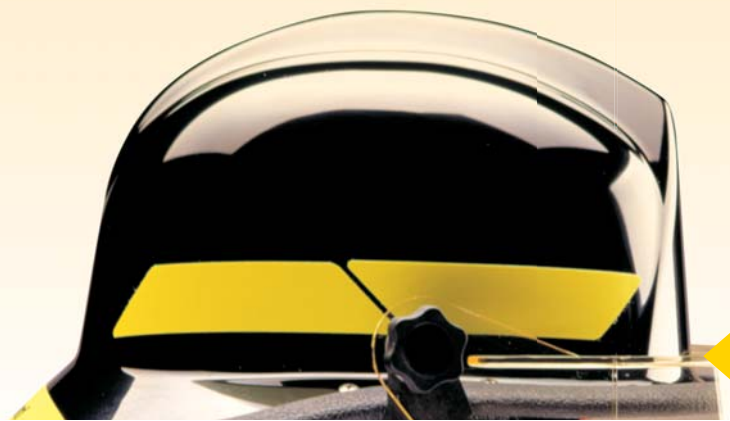
Many components worn for protection have limited performance life when exposed to temperatures above 500°F. NFPA Standards have established that these components must endure 500°F

for 5 minutes; however, it is understood that endurance does not mean that these components survive without sustaining damage. Their endurance is to ensure that the firefighter is given that window of opportunity to escape. Equipment exposed to this level of heat and time will most often need to be retired from additional service.

"My helmet still looks good, so it must be safe."

False. How long should a helmet last in the field: 3, 4, 5, 10 years? The answer is yes. Depending on the level of activity, exposures, and preventative maintenance, a helmet's life could be as short as one time use or as long as 10 years. The primary issue is how well the helmet is maintained and what the helmet has been subjected to while in service.

Any fire helmet that was involved in direct flame contact or experienced an impact from a falling object should be removed from service. This could happen the first time the helmet was put into service. A helmet used by an active fire training officer with several months each year of live fire exposure could well reach its full and useful life in one to two years. The helmet would not be the only item that would exceed useful life in that time under those conditions. Turnout gear and trousers would also be subject to retirement. Helmets in a rural volunteer department that did not see live fire but once or twice a year may easily last 10 years.



Wildfire Firefighting Helmets

Bullard Wildfire helmets set the standard in wildland firefighting. The preferred choice of wildland firefighters for decades, Bullard understands the unique conditions wildland fires represent.

Bullard Wildfire helmets are specifically engineered to meet the special needs of wildland and forestry firefighters. Manufactured from heat-resistant thermoplastic for superior impact and penetration protection, Wildfire helmets meet and exceed the performance specifications of NFPA 1977-2005. These models also exceed all major state fire codes for wildland fire fighting.



1 High heat thermoplastic outer shell

A specially formulated advanced color-through thermoplastic shell with the ultimate in impact and penetration resistance.

2 6-point FR6PC (pinlock) or FR56RC (ratchet) suspension

Both have a cotton brow pad and vertical adjustment capabilities for optimal comfort and fit.

3 Goggle clips

Keep your goggles in place- no slipping or sliding on the helmet.

4 Scotchlite reflective markings

Highest quality reflective material available; retains reflectivity to 500° F (260° C).

5 Underbrim anti-glare strip

Increases the wearer's ability for clear, unobstructed vision free of light glare.

6 Leather ratchet cover (on ratchet models)

Durable and comfortable leather ratchet cover is replaceable in case of damage.

NFPA 1977 Certified

Wildfire Colors:



black



red



white



yellow



blue



orange



lime-yellow

FH911C

Wildfire® Helmet NFPA 1977-2005

- Complete with thermoplastic shell
- Cap-style helmet
- 3 goggle clips (FSGC)
- 4 reflective lime-yellow stripes (R536)
- Adjustable chinstrap (R50)
- 6-point suspension (FRS6PC)
- Cotton brow pad (RBPCOTTON)
- 3 velcro material attachment strips inside shell
- Scotchlite® reflective striping (R533)



FH911CR

Wildfire Helmet NFPA 1977-2005

- Same as Model FH911C above with
- Sure-Lock® ratchet suspension (FRS6RC)
 - Cotton brow pad (RBPCOTTON)
 - Leather ratchet cover (R160)
 - Scotchlite® reflective striping (R533)



FH911H

Wildfire Helmet NFPA 1977-2005

- Complete with thermoplastic shell
- Full brim hat style helmet
- 3 goggle clips (FSGC)
- 4 reflective lime-yellow stripes(R536)
- Adjustable chinstrap (R50)
- 6-point suspension (FRS6PC)
- Cotton brow pad (RBPCOTTON)
- 3 velcro attachment stripes inside shell
- Scotchlite® reflective striping (R533)



FH911HR

Wildfire Helmet NFPA 1977-2005

- Same as Model FH911HR above with
- Sure-Lock ratchet suspension (FRS6RC)
 - Cotton brow pad (RBPCOTTON)
 - Leather ratchet cover (R160)
 - Scotchlite® reflective striping (R533)












Wildfire Series | Replacement Parts and Accessories

| | |
|---------|---|
| FRS6RC | 6-pt. Ratchet Suspension <ul style="list-style-type: none"> • 6-point Sure-Lock® ratchet suspension • Cotton brow pad (RBPCOTTON) • 2 vertical adjustment positions in front and rear • Goggle strap retaining slots |
| ERTSL | 6-pt. Ratchet Suspension for hats made before 2008 |
| FRS6PC | 6-pt. Pinlock Suspension <ul style="list-style-type: none"> • 6-point self-sizing suspension • Cotton brow pad (RBPCOTTON) • 4 vertical adjustment positions in front • 5 vertical adjustment positions in rear • Goggle strap retaining slots • Quadrapost sizing |
| ESULTRA | 6-pt. Pinlock Suspension for hats made before 2008 |
| R721YLW | Ear/Neck Protector <ul style="list-style-type: none"> • Nomex® • Rip-stop • Flame retardant cotton lining • Yellow color |
| R220 | Velcro® Kit (30 pcs.) (Not pictured) <ul style="list-style-type: none"> • Hook only |
| R222 | Ear/Neck/Face Protector <ul style="list-style-type: none"> • Nomex • Rip-stop • Yellow color |
| R223 | Ear/Neck/Face Protector NFPA 1977 <ul style="list-style-type: none"> • Nomex • Rip-stop • Flame retardant cotton lining • Yellow color |
| R726YLW | Ear/Neck Protector with Throat Strap <ul style="list-style-type: none"> • Nomex • Rip-stop • Flame retardant cotton lining • Yellow color |
| R536 | Retro-Reflective Stripe <ul style="list-style-type: none"> • Lime-yellow Scotchlite® stripes • 1" x 4" • Set of 4 |
| R537 | Retro-Reflective Stripe <ul style="list-style-type: none"> • Red-orange Scotchlite stripes • 1" x 4" • Set of 4 |



Wildfire Series | Replacement Parts and Accessories

| | | |
|------|---|---|
| ES4 | 10-pack Innerzone 2-piece Strap |  |
| ES5 | 10-pack Innerzone 1-piece Strap |  |
| 100G | Gold Line® Brackets <ul style="list-style-type: none"> • Front mounting aluminum bracket • For cap Model FH911C |  |
| 112G | Gold Line® Brackets <ul style="list-style-type: none"> • Front mounting aluminum bracket • For hat Model FH911H |  |
| 680P | Visor <ul style="list-style-type: none"> • 6" x 15" x .080" • Clear heat-formed polycarbonate visor for all Bullard brackets |  |
| 860P | Visor <ul style="list-style-type: none"> • 8" x 15" x .060" • Clear heat-formed polycarbonate visor for all Bullard brackets |  |
| 8S24 | Visor <ul style="list-style-type: none"> • 8" x 15" x 24 mesh • Mesh black screen visor for all Bullard brackets |  |
| R50 | Chinstrap <ul style="list-style-type: none"> • Nomex® • Postman's slide fastener |  |
| R51 | Chinstrap <ul style="list-style-type: none"> • Nomex • Quick-release buckle |  |

Wildfire Series | Replacement Parts and Accessories

| | | |
|-------------------|---|---|
| XTO | ESS Wildfire® Helmet Goggle <ul style="list-style-type: none"> • 1-piece wraparound strap • Anti-scratch/anti-fog lens • Speed clip Quick-Adjust system • Extra cushion face foam • Certified ANSI Z87-1989 |  |
| WFB | ESS Wildfire Helmet Goggle <ul style="list-style-type: none"> • 1-piece wraparound strap • Anti-scratch/anti-fog lens • Speed clip Quick-Adjust system • Certified ANSI Z87-1989g |  |
| EL1 | 10-pack Non-NFPA Lenses - clear |  |
| EL2 | 10-pack Non-NFPA Lenses - tinted |  |
| ET | 10-pack Tear-off Lenses <ul style="list-style-type: none"> • 6 lenses per pack |  |
| GC100 | Goggle Clips <ul style="list-style-type: none"> • Self-adhesive • Set of 3 |  |
| EZEX | 10-pack Snap Helmet Mount Brackets |  |
| ESSARSLV-N | Goggle Sleeve <ul style="list-style-type: none"> • Nomex® • Flame retardant |  |

Fire Helmet Myths: Part 2

Many commonly held beliefs are the result of experience with products in the field. While certainly valid, these experiences in many cases have occurred decades ago and may not accurately represent the nature of modern materials and products. Below, you will find some of the more common beliefs as well as the rest of the story.

“Composite (fiberglass) helmets do not degrade under conditions that affect thermoplastic helmets.”

False. In fact, fiberglass will often degrade more rapidly under similar conditions. The thermoset resin, which holds the glass fibers together, degrades when exposed to extreme temperatures. Each exposure to high heat attacks and weakens the molecular structure of the resin. Lower temperatures can also degrade the resin, but over a much longer period of time. Ultraviolet (UV) exposure from sunlight has a similar effect on these resins. An example of how this degradation takes place can be seen in corrugated fiberglass paneling used in deck roofs. Over time, the sun will bake the resin out of the fiberglass, leaving glass fibers exposed and degrading both the strength and appearance of the material. High heat exposures are acceleration of this type of degradation.

“Composites remain rigid when exposed to high heat conditions that soften thermoplastic materials.”

False: Even though they do not melt, thermoset resins used in composite do soften significantly at high temperatures such as those involved in structural firefighting service. In addition, unlike

their plastic cousins, thermoset resins are not well suited to being repeatedly heated to the softening point and re-cooled. Each heat exposure weakens the resin from its original state. Thermoplastic materials, being made into products by a process of melting and re-cooling, are designed to accept this re-heating.

“Thermoplastic helmets cannot stand up to the heat of normal firefighting activities.”

False. Manufacturers, such as General Electric (GE), have developed specialized high performance plastics that perform at temperatures exceeding 500° F (260° C). These new plastics offer the well-known durability that comes with plastic and endure heat as well as many composite materials.

“Thermoplastic helmets will not withstand chemical exposure.”

Partly False. The new breeds of plastics used today are extremely resistant to most chemicals. There are, however, some chemical solvents, which may be more harmful to thermoplastic helmet shells than to composites. The most chemical sensitive part of any fire helmet assembly is the faceshield or goggle lens. If you are experiencing a high rate of non-impact related cracking in faceshields or goggle lenses in service, you may be working in a chemical environment in which a composite shell would provide better service than a thermoplastic.



Emergency Medical / Search and Rescue Helmets

USRX rescue helmets are engineered Bullard Tough for extreme search and rescue conditions. Featuring a streamlined design, USRX rescue helmets incorporate recommendations from USAR teams and other rescue professionals. The result is an integrated assembly of advanced materials and quality components that provide superior head protection, comfort and proven long-lasting durability.

The Advent helmet offers paramedics, emergency medical personnel, hazardous response teams, and search and rescue a revolutionary concept in head protection. Advent offers top, front, side and rear impact and penetration protection. Available in two models, Advent offers a variety of special benefits.



USRX

1 Thermoplastic outer shell

A specially formulated advanced color-through thermoplastic shell with the ultimate in impact and penetration resistance.

2 Ribbed inner impact shell

Re-engineered to allow more headroom, but still performs like a traditional foam impact cap, protecting against falling objects and heat rise.

3 Quick-attach blade system

The easiest way to quickly change out face protection, offered exclusively by Bullard.

4 ESS goggles

Industry-leading eye protection.

5 Nomex ear cover

Provides premium protection in high heat situations.

6 Three-point chinstrap with postman's slide:

Easy to adjust and secure.

7 Sure-Lock ratchet headband

Sure-Lock is the top performing ratchet headband, made exclusively by Bullard.

8 Stainless steel D-ring

Large, durable D-ring allows you to hang your helmet on virtually any size hook.

9 Scotchlite® Reflective Striping

Highest quality reflective material available; retains reflectivity to 500° F (260° C).

NFPA 1951 and 1971 certified

USRX Colors:



Advent

1 Tough thermoplastic outer shell

Provides superior impact and penetration protection over a wide range of temperatures.

2 ABS and foam core inner shell

Protects by distributing forces of impact over a wide area.

3 Flex-Gear ratchet headband

Offers quick adjustment and great fit.

4 8- point crown strap system

Gives stability and comfort to the end-user.

5 2- or 3- point chinstrap

Provides safety and security and has a quick-release buckle.

ANSI Z89.1 and CSA Z94.1 certified

Advent Colors:



USRX Urban Search and Rescue Helmet

USRX

Rescue Helmet

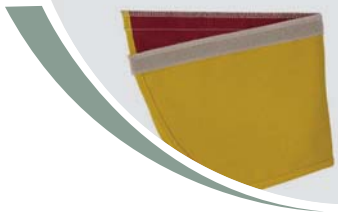
NFPA 1951-2001 and NFPA 1971, 2007

- Inner crown system (R929)
- Standard headband with brow pad
- Black Rip-stop Nomex® ear/neck protector (R721)
- Quick-Attach goggle (IZ4)
- Quick-Release 3-point chinstrap (R172)
- Edge beading
- Leather ratchet cover (R160)
- Sure-Lock® ratchet suspension(R624)

Dual certified: structural and rescue!



Options or Substitutes for USRX Models at No Additional Charge:



- R325 6" Faceshield
- Red-Orange Reflective Striping (Scotchlite®)
- R721YLW Yellow Nomex Ear/Neck Protector

Advent® EMS / SAR Helmets

A1

Advent® Helmet with 2-point chinstrap

- Thermoplastic alloy shell
- Meets/exceeds ANSI Z89.1-2003 Type II, Class E & G requirements and CSA Z94.1-1992, Class G
- EPS foam impact liner
- EPS foam crown cushion
- ABS inner shell
- 8-point Flex-Gear® ratchet suspension (ADRTSL)
- 2-point chinstrap with dielectric quick-release buckle (A110)



A2

Advent Helmet with 3-point chinstrap

- Same as Model A1 above with
- 3-point cradle chinstrap



Customize Your Helmet



Pad Printing: Single or multi-color logo or insignia imprinting is available for Advent.

Rescue Series | Replacement Parts and Accessories

| | | |
|-------------------|---|---|
| XTO | ESS Wildfire® Helmet Goggle <ul style="list-style-type: none"> • 1-piece wraparound strap • Anti-scratch/anti-fog lens • Speed clip Quick-Adjust system • Extra cushion face foam • Certified ANSI Z87-1989 |  |
| WFB | ESS Wildfire Helmet Goggle <ul style="list-style-type: none"> • 1-piece wraparound strap • Anti-scratch/anti-fog lens • Speed clip Quick-Adjust system • Certified ANSI Z87-1989 |  |
| EL1 | 10-pack Non-NFPA Lenses - clear |  |
| EL2 | 10-pack Non-NFPA Lenses - tinted |  |
| ET | 10-pack Tear-off Lenses <ul style="list-style-type: none"> • 6 lenses per pack |  |
| EZEX | 10-pack Snap Helmet Mount Brackets |  |
| ES4 | 10-pack Innerzone 2-piece Strap |  |
| ES5 | 10-pack Innerzone 1-piece Strap |  |
| ESSARSLV-N | Goggle Sleeve <ul style="list-style-type: none"> • Nomex® • Flame retardant |  |

| | | |
|----------------------|---|---|
| <p>ADFB</p> | <p>Accessory Blades</p> <ul style="list-style-type: none"> • For mounting 4" or 6" firefighter faceshield on Advent® helmet • Includes blades and hardware • Faceshield must be purchased separately |  |
| <p>ADRTSL</p> | <p>Suspension for Advent®</p> <ul style="list-style-type: none"> • 8-point Sure-Lock® ratchet suspension for Advent helmet • Foam-backed vinyl brow and crown pad |  |
| <p>R533</p> | <p>Retro-Reflective Stripes</p> <ul style="list-style-type: none"> • Lime-yellow Scotchlite® stripes • 1" x 4" trapezoid • Set of 5 |  |
| <p>R534</p> | <p>Retro-Reflective Stripes</p> <ul style="list-style-type: none"> • Red-orange Scotchlite stripes • 1" x 4" trapezoid • Set of 5 |  |
| <p>A101</p> | <p>Replacement Brow Pad</p> <ul style="list-style-type: none"> • Vinyl replacement brow pad for Advent helmet |  |
| <p>A110</p> | <p>Chinstrap for Advent® or Vector™</p> <ul style="list-style-type: none"> • 2-point Nylon chinstrap • Quick-release buckle |  |
| <p>R330</p> | <p>Faceshield</p> <ul style="list-style-type: none"> • 4" optically correct faceshield • Hard-coated PPC • PPC is known for its balance between toughness and temperature • Enhanced optics • Mounting hardware not included (ADFB Advent, R154 USRX) |  |
| <p>R325</p> | <p>Faceshield</p> <ul style="list-style-type: none"> • 6" optically correct faceshield • Hard-coated polycarbonate • Polycarbonate is known for impact resistance • Mounting hardware not included (ADFB Advent, R154 USRX) |  |

Rescue Series | Replacement Parts and Accessories

| | | |
|---------|---|---|
| R721 | Ear/Neck Protector <ul style="list-style-type: none"> • Nomex® • Rip-stop • Flame retardant cotton lining • Black color |  |
| R721YLW | Ear/Neck Protector <ul style="list-style-type: none"> • Same as Model R721 above, except in yellow color |  |
| R929 | Inner Crown System <ul style="list-style-type: none"> • Sure-Lock® ratchet headband (R624) • Brow pad (R634), nylon crown strap assembly • Velcro® strips • Black suspension ring |  |
| R172 | Chinstrap-Standard For USRX <ul style="list-style-type: none"> • Nomex • Quick-release buckle and postman's slide fastener • Includes spacers and screws for mounting |  |
| R160 | Ratchet Cover <ul style="list-style-type: none"> • Leather ratchet cover, fits all Bullard ratchet suspensions |  |
| R154 | Quick-Attach Faceshield Hardware <ul style="list-style-type: none"> • Aluminum washers • Glass reinforced nylon knobs • Stainless steel studs and brass T-nuts • Glass reinforced nylon Quick-Attach blades |  |
| R155 | Quick-Attach Goggle Hardware <ul style="list-style-type: none"> • Glass reinforced nylon Quick-Attach blades • Stainless steel machine screws and nuts |  |
| R624 | Standard Headband with Brow Pad <ul style="list-style-type: none"> • Replaceable fire resistant cotton brow pad (R635) |  |
| R634 | Standard Brow Pad <ul style="list-style-type: none"> • Fire resistant cotton brow pad for ratchet headband (R624) |  |
| I24 | Goggle with Quick-Attach Blades <ul style="list-style-type: none"> • NFPA 1971-2000 Certified • 2-piece strap • Anti-scratch/anti-fog lens • Speed clip Quick-Adjust system • Glass reinforced nylon Quick-Attach blades • Stainless steel machine screws and nuts |  |

Customize Your Helmet

Imprint Your Department Logo

Bullard advanced pad printing technology allows us imprint your department logo or seal in a crisp, clear image, with up to six colors. With no hidden charges, set-up charges or artwork fees, you can personalize your next order of at least twenty fire helmets quickly and easily.

Striping

Add retroreflective stripes to your helmet for better identification in the dark. Bullard offers Scotchlite® retroreflective stripes, which meet NFPA requirements. These stripes are extremely heat resistant and durable. Scotchlite is a reflective material with a glass bead base that reflects when a light is pointed at the material. Bullard striping for fire helmets is available in lime-yellow and red-orange colors.








Leather fronts

Customize your department's helmets with leather fronts, badges and ornamentation. Bullard leather fronts are available in patent leather and flat-finish leather. You can choose between hot-stamped or stitched lettering to fit your style. Bullard leather fronts can be created in four-inch, five-inch or six-inch sizes to be mounted to either traditional or contemporary helmets. You'll find the tradition and quality you expect from Bullard leather fronts. Visit www.bullard.com/lfc to create your personal leather front online. See page 47 for leather front options.

Include additional visibility, on-the-scene accountability and department promotion with special badges and ornamentation. Choose from a variety of designs, ranks and sizes. Special options are available upon request. Together with crescent lettering, and reflective letters and numbers, Bullard customization can meet your department's needs. See page 46 for customization options.



Helmet Ornamentation | Front Decals

| | | |
|---------------------|--|---|
| <p>OR110</p> | <p>3" Front Decal</p> <ul style="list-style-type: none"> • 2-color design • Black and gold on reflective white • Chief • 5 bugles |  |
| <p>OR140</p> | <p>Maltese Cross</p> <ul style="list-style-type: none"> • 2-color design • Black and gold on reflective silver • With tools of trade and "FIRE FIGHTER" printed in black |  |
| <p>OR145</p> | <p>Star Of Life</p> <ul style="list-style-type: none"> • 3" • White on blue |  |
| <p>OR150</p> | <p>Front Decal</p> <ul style="list-style-type: none"> • Black on reflective white • 1-color design • Black on reflective white • Firefighter with eagle emblem |  |
| <p>OR120</p> | <p>3 1/2" Front Decal</p> <ul style="list-style-type: none"> • 2-color design • Black and gold on reflective white • Deputy Chief • 4 bugles |  |
| <p>OR121</p> | <p>3 1/2" Front Decal</p> <ul style="list-style-type: none"> • 2-color design • Black and gold on reflective white • Assistant Chief • 3 bugles |  |
| <p>OR122</p> | <p>3 1/2" Front Decal</p> <ul style="list-style-type: none"> • 2-color design • Black and gold on reflective white • Battalion chief • 2 bugles |  |

Helmet Ornamentation | Front Decals

- OR123** **3 1/2" Front Decal**
- 2-color design
 - Black and gold on reflective white
 - Deputy Chief
 - 3 bugles



- OR124** **3 1/2" Front Decal**
- 2-color design
 - Black and gold on reflective white
 - Assistant Chief
 - 4 bugles



- OR130** **3" Front Decal**
- 2-color design
 - Black and silver on reflective silver
 - Captain
 - 2 axes



- OR131** **3" Front Decal**
- 2-color design
 - Black and silver on reflective silver
 - Captain
 - 2 bugles



- OR132** **3" Front Decal**
- 2-color design
 - Black and silver on reflective silver
 - Lieutenant
 - 1 axe



- OR133** **3" Front Decal**
- 2-color design
 - Black and silver on reflective silver
 - Lieutenant
 - 1 bugle



Helmet Ornamentation | Crescent Lettering

Crescent shaped, 7" x 4" black letters on reflective white background



OR300



OR301



OR302



OR303



OR304



OR305



OR307



OR308



OR309



OR310



OR311



OR312



OR313



OR315



OR316



OR320



OR326



OR327

Helmet Ornamentation | Scotchlite® Letters and Numbers

| | |
|--------------|---|
| OR400 | 2" Letter • Adhesive-backed • Lemon-yellow |
| OR401 | 2" Letter • Adhesive-backed • Red |
| OR402 | 2" Letter • Adhesive-backed • White |
| OR500 | 2" Letter • Adhesive-backed • Lime-yellow |
| OR501 | 2" Letter • Adhesive-backed • Red-orange |
| OR502 | 2" Letter • Adhesive-backed • Silver |
| OR450 | 2" Number • Adhesive-backed • Lemon-yellow |
| OR451 | 2" Number • Adhesive-backed • Red |
| OR452 | 2" Number • Adhesive-backed • White |
| OR550 | 2" Number • Adhesive-backed • Lime-yellow |
| OR551 | 2" Number • Adhesive-backed • Red-orange |
| OR552 | 2" Number • Adhesive-backed • Silver |

AZ

AZ

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Helmet Ornamentation | Leather Front Badges

Leather Front Badges

- Available in gold or silver
- Custom shapes and emblems available
- Personalization available



Badge A



Badge B



Badge C



Badge D



Badge E



Badge F



Badge G



Badge H

Call 877-BULLARD to order your badge or decal if it is not shown here.

Helmet Ornamentation | Leather Fronts

* **NOTE:** Leather front is sold separately for UST Series Fire Helmets.

Stamped

4, 5, 6-Inch Leather Fronts

- For use with Firedome® FX/PX and UST helmets
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 4" size

Decal

4, 5, 6-Inch Leather Fronts

- For use with Firedome FX/PX and UST helmets
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 6" size

Sewn

4, 5, 6-Inch Leather Fronts

- For use with Firedome FX/PX and UST helmets
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 5" size

Passport

4, 5, 6-Inch Leather Fronts

- For use with Firedome FX/PX and UST helmets
- Removable passport attaches with Velcro
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 6" size

Helmet Ornamentation | Leather Front Style Options

NOTE: Leather front is sold separately for UST Series Fire Helmets.

Badge

4, 5, 6-Inch Leather Fronts

- For use with Firedome FX/PX and UST helmets
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 6" size

Magnetic Passport

6-Inch Leather Fronts

- For use with Firedome FX/PX and UST helmets
- Removable passport badge attaches with magnetic back
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 6" size

Recessed

4, 5, 6-Inch Leather Fronts

- For use with Firedome FX/PX and UST helmets
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 6" size

FDNY

6-Inch New York Style Front

- For use with Firedome FX/PX and UST helmets
- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



shown in 6" size

Helmet Ornamentation | Leather Front Style Options

✳ **NOTE:** Leather front is sold separately for UST Series Fire Helmets.

R400 4-Inch Leather Front Mount



Passport Patch Options:

Standard

4, 5, 6-Inch Standard Passport Patch

- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



Magnetic Passport Patch

6-Inch Magnetic Passport Patch

- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



FDNY Passport Patch

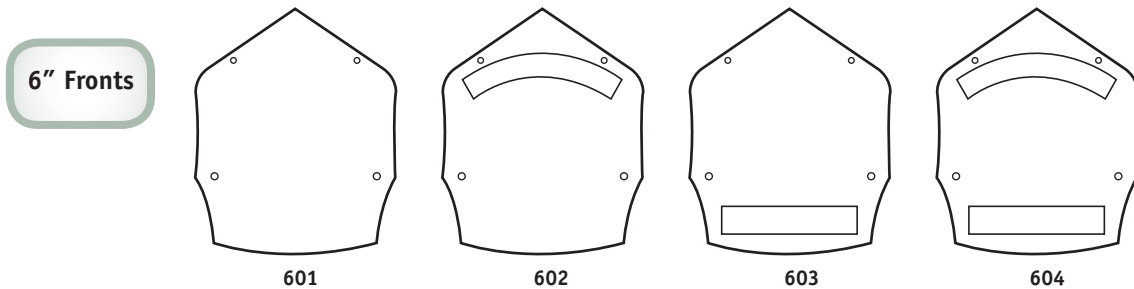
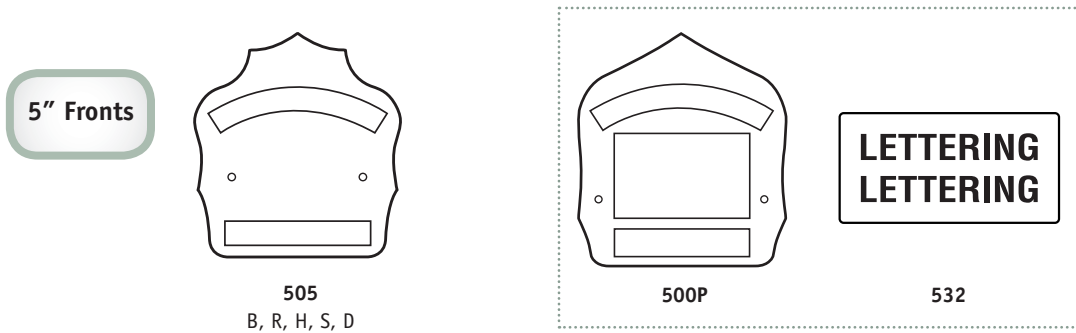
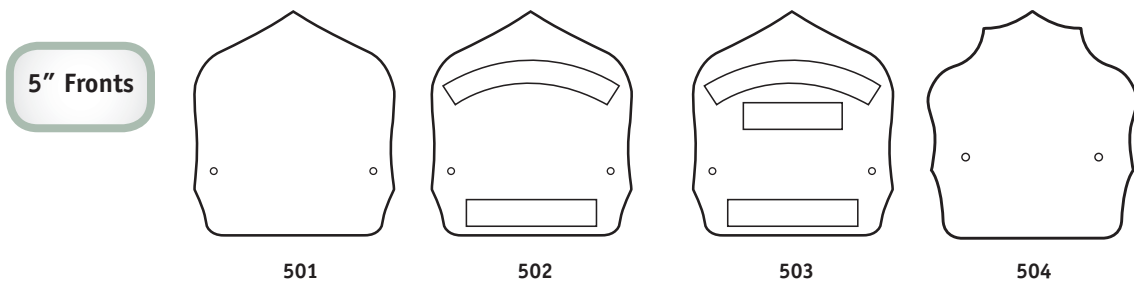
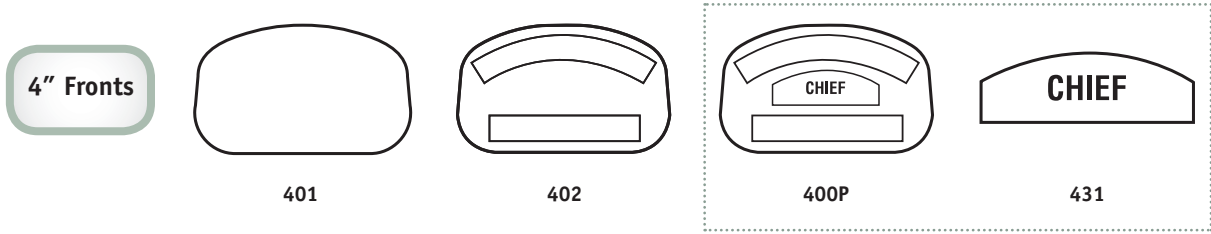
6-Inch FDNY Passport Patch

- Genuine leather colors: red, black, blue, green, white and yellow
- Patent leather colors: red, black and white



Helmet Ornamentation | Leather Front Style Options

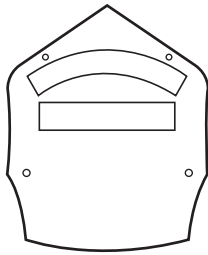
NOTE: Leather front is sold separately for UST Series Fire Helmets.



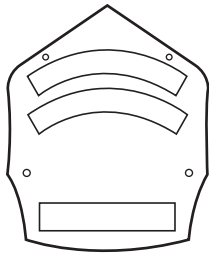
Helmet Ornamentation | Leather Front Style Options

*** NOTE:** Leather front is sold separately for UST Series Fire Helmets.

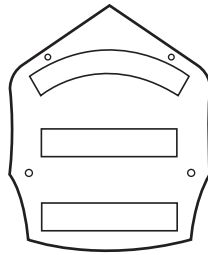
6" Fronts



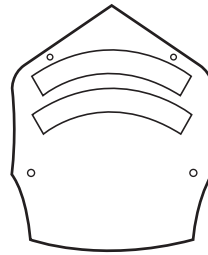
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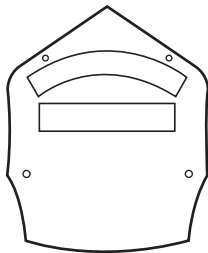


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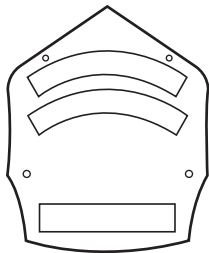


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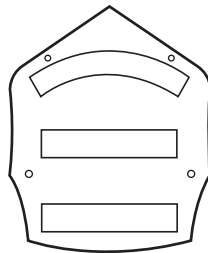
6" Fronts



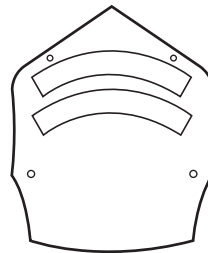
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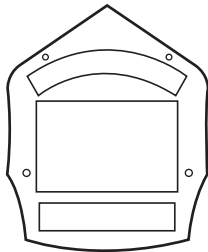


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612

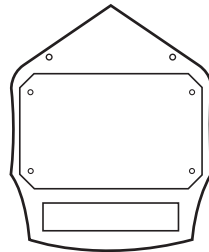
6" Fronts



600P

LETTERING
LETTERING

634

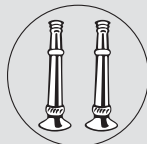


6NY

5

636

Badge or Decal Option Chart:



Call to order if your badge or decal is not shown here.

Ordering Leather Fronts

Go to www.bullard.com/lfc.

Leather Fronts can be created and submitted online, decreasing processing time and reducing the chance of error.

The Leather Front Configurator has three steps:

1. Front Creation
2. Order Information
3. Reference Number and Confirmation Information

Once the Front is saved, submit the reference number on your Purchase Order.

For more information or assistance, please contact Bullard Customer Service at 877-BULLARD.



Ceremonial Plaques

FIREPLAQUE

Ceremonial Plaque

This unique presentation piece is a memorable reward for years of dedicated service. It can also be used to commemorate a groundbreaking event or thank sponsors for their participation on a special project. Each 16" x 20" plaque includes a traditional fire helmet shell and a personalized engraved plate.





Thermal Imaging for Firefighting

Trust Bullard,
the leader in
thermal imagers.

We've spent more than a
decade in this business, and
the innovations that have
fueled our product line are
second to none.





As with any other capital expenditure, fire departments should expect their thermal imagers to provide years of reliable service.

Making the best product selection should not only involve a careful evaluation of products on the market, but it should also consider the service and support that a department will receive before and after the sale.

Bullard advantages:

- Lifetime housing warranty
- 48-business hour factory turnaround on repairs
- Free “Get The Picture” e-newsletter
- Free training CD-Rom with every imager

APPLICATIONS FOR THE FIRE SERVICE

All objects have a certain temperature and emit waves of energy called infrared radiation. Hot objects emit more energy than cold objects. A thermal imager translates these energy waves into a viewable image, which shows a “heat picture” of a scene. On the screen of a thermal imager, hotter objects show as white, cooler objects show as black, and objects in between these temperatures are displayed in shades of gray. Because infrared radiation is not blocked by smoke, firefighters can use thermal imagers to see through smoke, enabling them to find victims faster, identify the seat of the fire earlier and detect structural dangers that could put them at risk.

Size-Up

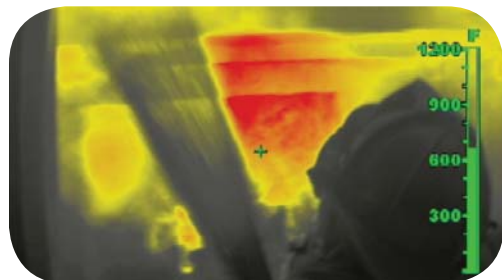
A thermal imager can give firefighters important information early at an incident during size-up, which can help them develop a better plan for mitigation. At a structure fire, the thermal imager may help identify the location of the fire or the extent of fire involvement prior to firefighters being committed into the structure. At non-fire incidents, thermal imagers can help verify the number of victims at a vehicle collision.



This image shows extensive fire and heat already well-developed in the ceiling space, as well as in the right side of the building. This helps firefighters deploy resources safely and appropriately.

Fire Attack

Just as in size-up, thermal imagers provide information to the fire attack crew that they did not previously have due to poor visibility and building construction. Using this information, firefighters can immediately direct water to the seat of the fire and ensure that their hose streams are working effectively. A thermal imager can also help firefighters locate and isolate hidden fires, such as electrical fires behind walls.



This image shows how a fire can spread behind a wall and race up to the attic. Without a thermal imager, firefighters may not find this fire until it spreads into the attic and breaks out as a raging fire. Finding the fire earlier helps reduce property loss and damage.



Search and Rescue

Of all the operations in which thermal imaging can improve a firefighter's efforts, this technology has the most dramatic impact on search and rescue. Without a thermal imager, firefighters search burning buildings by crawling on their hands and knees and groping their way through blinding smoke to find unconscious victims. Recovery rates in these operations are statistically low, since firefighters are forced to rely on physical contact alone to locate victims. Firefighters using thermal imagers can see the scene, which enables them to quickly navigate and identify victims. In addition to allowing firefighters to see through smoke in burning structures, thermal imagers enable first responders to see in the dark to find victims who are lost or in danger. Police departments can also use these devices to search for fugitives.



A person lost in the woods or ejected from a motor vehicle can be difficult to locate at night. However, this image shows that the person's body heat is quickly detected by the thermal imager, guiding rescuers promptly to the proper location.

Ventilation

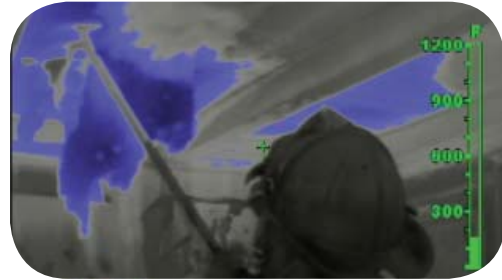
Firefighters can use thermal imagers to identify areas of heat accumulation, possible ventilation points and significant building construction features. This helps ensure proper and effective ventilation that successfully removes smoke and heat from a building. Ventilation reduces the chances of backdraft or flashover, while possibly giving trapped victims a few more valuable seconds to be found. Identification of superheated gases also helps keep firefighters safer.



This image shows the superheated gases (white cloud) being ventilated from a room prior to firefighters making entry. In certain situations, firefighters might actually trace the heated gases back to help them find the source of the fire.

Overhaul

After the fire is out, firefighters overhaul a structure to ensure that there are no hidden fires or smoldering materials that could cause the fire to reignite. When using a thermal imager for overhaul, firefighters methodically scan each room for remaining hot spots. When firefighters find these hot spots quickly and efficiently, they minimize the risk of a rekindle and reduce property damage. Structural components can be identified easily with a thermal imager, helping firefighters remain safe while fighting fires in compromised structures.



This image shows several hotspots that remain in the ceiling space after the majority of the fire has been knocked down. These will have to be cooled by firefighters prior to departure. The structural integrity is compromised, yet it can be monitored by firefighters for safety purposes, even when steam and smoke still obscure normal eyesight.

T4

The state-of-the-art T4™ thermal imager integrates an ultra-high resolution infrared engine, widescreen display, digital zoom, Super Red Hot™ colorization and Electronic Thermal Throttle™ for maximum performance and jaw-dropping clarity. Extreme performance meets extreme expectations in the Bullard T4.



T4

Bullard T4 Thermal Imager

- Ultra-High resolution 320 x 240 detector
- Super Red Hot colorization highlights heat conditions
- Electronic Thermal Throttle isolates heat sources
- Over 1100°F saturation temperature
- Oversized, 4.3" widescreen, digital LCD display
- 16 x 9 aspect ratio
- 50° horizontal field of view
- 80° display viewing angle
- 2x and 4x digital zoom
- Palm-size thermal imager
- Direct charge system for use with truck mount
- Two 10 volt NiMH rechargeable batteries
- Battery charger with AC and DC adaptors
- Combination wrist strap and gear strap
- Carrying case
- Product orientation CD-Rom

Standard color is metallic blue. Additional charge for blue, yellow, black, white, orange, red or lime-yellow.

T4 Personalized Strap

Print up to eight letters on the Kevlar® side strap

T4EXT

Extended Warranty

- Extended warranty for the T4 Thermal Imager
- One-year extension
- Must be purchased when T4 is ordered

T4EXT2

Extended Warranty

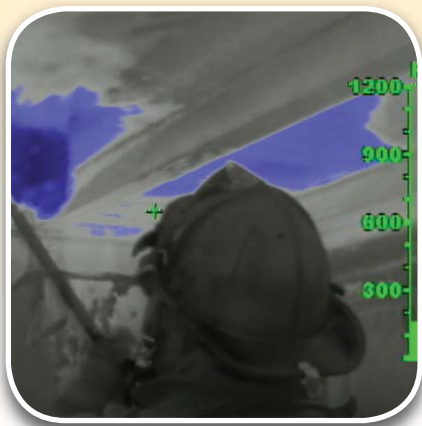
- Extended warranty for the T4 Thermal Imager
- Two-year extension
- Must be purchased when T4 is ordered

Bullard Transmitters now have optional built-in recording capability!

Find out more on page 64.


Electronic Thermal Throttle™

Pinpoint Hot Spots;
Highlight the Hottest Objects



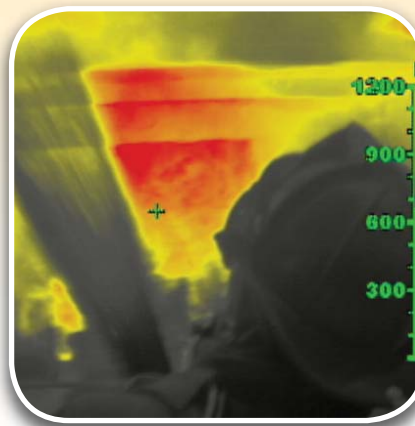
The patented Electronic Thermal Throttle from Bullard greatly improves the usability of thermal imagers in overhaul. Because the sensitivity of the imager is automatically controlled by the circuitry inside the TI, the fact that the user has no control over its adjustment has traditionally made overhaul difficult. Most thermal imagers change sensitivity when they view areas of significant heat. In a fire room, post-knockdown, the software is unable to select the proper sensitivity level for the heated room. As a result, traditional thermal imagers have shown the room with an overabundance of white, or as many areas of gray. Firefighters could not easily pinpoint areas of concern.

The Electronic Thermal Throttle solves this dilemma. When the firefighter uses Electronic Thermal Throttle, the thermal imager paints the hottest objects in the scene blue, leaving other hot objects white. By holding down the proper switch, the temperature for blue colorization is lowered and more objects are painted blue. The hottest items are dark blue, with lighter shades of blue representing slightly cooler items.

This blue colorization can help a firefighter identify which portion of a wall is hotter than the rest, enabling him to focus his initial overhaul efforts. The feature can also help a firefighter identify fluorescent light ballasts or other electrical equipment that is overheated and causing an odor of smoke. By highlighting the heat from a human to make it stand out from the background heat of the area being searched, Electronic Thermal Throttle might also help rescuers involved in an exterior search and rescue operation. Electronic Thermal Throttle comes standard on the Bullard T4 and T3MAX Thermal Imagers. 

Super Red Hot™

Determine Heat Conditions;
Identify Dangerous Temperatures




Bullard first introduced Red Hot colorization in 2000. Since then, colorization has become common on higher performance microbolometer-based thermal imagers.

Super Red Hot uses three color levels to help firefighters identify dangerous temperatures. The software that creates these colors also incorporates special logic that allows it to shade in and show details behind the color. As a result, it is one of the few colorization systems that actually gives depth and texture to the image, allowing firefighters to see structural details within the area being colored. In short, the color in Super Red Hot from Bullard does not obscure details like some other color systems.

Bullard Super Red Hot uses yellow, orange and red colors to indicate increasing levels of heat (and danger). Objects that the thermal imager estimates at 500°F (260°C) or hotter are colored in shades of yellow. At 800°F (427°C), the thermal imager begins to color objects shades of orange instead of yellow. The orange transitions to red at 1,000°F (538°C), and any object over about 1,120°F (600°C) will be solid red. During fire suppression, in situations where the seat of the fire is not easily identified, the Super Red Hot system should colorize the greatest density of fire as red. This can help with hose placement, as well as proper aiming of streams.

While the thermal imager normally only sees surface temperatures, superheated gases have special properties that make them visible on a thermal imager. Previously, users of microbolometers had to look for faint white clouds in the thermal image to determine where the thermal layer may be. Since these gases frequently give a high heat signature to the TI, the Super Red Hot feature will normally colorize thermal layers in shades of yellow or orange. This can help new users or less experienced users identify the thermal layer more rapidly, and potentially make better decisions about how far to advance or how quickly to ventilate a structure.

Keep in mind that the temperatures indicated by the Super Red Hot colorization are estimations, as with the relative heat indicator. A number of factors, most importantly the type of material, affect the accuracy of the estimation. In general, if you can “see” a gas layer on your TI, even if it is white and not colorized, treat it as a superheated layer. Super Red Hot also comes standard on the Bullard T4, T3MAX, T320 and T3XT Thermal Imagers. 

T320

New for 2008, the Bullard T320 incorporates both value and quality in one elite package. Now, you can get the value of the Bullard T3 Series, as well as the higher resolution that comes with the T4 series. Offering Super Red Hot and connectivity for transmitting and recording, the T320 really is the best of both worlds.



T320

Bullard T320™ Thermal Imager

- 320 X 240 Detector
- Super Red Hot™ colorization highlights heat conditions
- Over 1100°F saturation temperature
- Palm-size thermal imager
- Direct charge system for use with truck mount
- Two 10 volt NiMH rechargeable batteries
- Battery charger with AC and DC adaptors
- Combination wrist strap and gear strap
- Product orientation CD-ROM
- Carrying case

Standard color is yellow. Additional charge for lime-yellow, black, white, orange, blue or red.

T3 Personalized Strap

Print up to eight letters on the Kevlar® side strap

T320EXT

Extended Warranty

- Extended warranty for the T320 Thermal Imager
- One-year extension (total of 2 years)
- Must be purchased when T320 is ordered

T320EXT2

Extended Warranty

- Extended warranty for the T320 Thermal Imager
- Two-year extension (total of 3 years)
- Must be purchased when T320 is ordered



T3MAX

Offering the simplicity and durability of the original T3XT, the Bullard T3MAX™ also offers advanced features making this model the most versatile small form-factor thermal imager on the market. Innovations such as Electronic Thermal Throttle™ and Super Red Hot™ give firefighters valuable information about the fire scene, helping them make accurate and timely decisions.

T3MAX

Bullard T3MAX™ Thermal Imager

- 160 X 120 Detector
- Super Red Hot colorization highlights heat conditions
- Electronic Thermal Throttle isolates heat sources
- Over 1100°F saturation temperature
- Palm-size thermal imager
- Direct charge system for use with truck mount
- Two 10 volt NiMH rechargeable batteries
- Battery charger with AC and DC adaptors
- Combination wrist strap and gear strap
- Product orientation CD-ROM
- Carrying case

Standard color is red. Additional charge for yellow, black, white, orange, blue or lime-yellow.

T3 Personalized Strap

Print up to eight letters on the Kevlar® side strap

T3MAXEXT

Extended Warranty

- Extended warranty for the T3MAX Thermal Imager
- One-year extension
- Must be purchased when T3MAX is ordered

T3MAXEXT2

Extended Warranty

- Extended warranty for the T3MAX Thermal Imager
- Two-year extension
- Must be purchased when T3MAX is ordered

SceneCatcher™: The Latest Bullard Innovation

Firefighters have asked for it, now it's here: a digital video recorder built into a Bullard transmitter handle! Offering up to 60 minutes of recording time for video, 300 still images, and digital download capability, this technology will offer even more assistance in documenting a scene quickly and effectively. See page 64.



T3XT

With the same tried-and-true simplicity and durability of the original T3, the T3XT boasts a performance upgrade, offering improved image clarity and picture definition. The addition of the Super Red Hot™ Feature, gives firefighters the extra edge by displaying a fire scene's heat levels in color, from yellow (starting at 500 degrees) to orange to red hot, for the most intense level of heat.



T3XT

Bullard T3XT Thermal Imager

- 160 x 120 Detector
- Super Red Hot™ colorization highlights heat conditions
- Over 1100°F saturation temperature
- Palm-size thermal imager
- Direct charge system for use with truck mount
- Two 10 volt NiMH rechargeable batteries
- Battery charger with AC and DC adaptors
- Combination wrist strap and gear strap
- Product orientation CD-ROM
- Carrying case

Standard color is lime-yellow. Additional charge for yellow, black, white, orange, red or blue.

T3 Personalized Strap

Print up to eight letters on the side strap

T3XTEXT

Extended Warranty

- Extended warranty for the T3XT Thermal Imager
- One-year extension
- Must be purchased when T3XT is ordered

T3XTEXT2

Extended Warranty

- Extended warranty for the T3XT Thermal Imager
- Two-year extension
- Must be purchased when T3XT is ordered

Stay informed with the *Get the Picture* newsletter.

Stay up-to-date on all the newest information from Bullard and the world of thermal imaging. "Get the Picture" is free and is full of training tips, real-life saves and funding information. It's easy to subscribe, just go to www.bullard.com to sign up.



Transmitters for T3 and T4 Series

Housed in an attachable handle, the multi-channel transmitter enables monitoring of the thermal imaging video remotely. The two-channel Bullard transmitter offers a transmitting distance three times farther than any other transmitter. Weighing well less than one pound, the Bullard transmitter is easily attached to the Bullard thermal imager via a thumb screw connection at the base of the camera.

| | |
|-----------------------|---|
| T3TRANSONLY | 4-Channel Wireless Remote Transmitter <ul style="list-style-type: none"> • Transmits 700 feet line of sight and 200 feet through typical construction • Receiver purchased separately |
| T3TRANSONLY2 | 2-Channel Wireless Remote Transmitter <ul style="list-style-type: none"> • Transmits 2000 feet line of sight and 600 feet through typical construction • Receiver purchased separately |
| T3TRANSUPGRADE | Transmitter Upgrade <ul style="list-style-type: none"> • Upgrade an existing transmitter handle to an improved performance, 2-channel transmitter: 600 ft through ordinary construction |



MobileLink™ Handheld Receiver

The MobileLink battery-operated receiver allows the user to monitor the scene from distances up to 600 feet, through typical construction. With a crystal-clear display, two- or four-channel availability and BNC/ RCA video out jack, the MobileLink receiver can help improve the effectiveness of the operations and increase firefighter safety.

| | |
|------------------|---|
| ML1 | 2-Channel MobileLink <ul style="list-style-type: none"> • Includes battery, battery charger, and AC/DC adaptors • 3.5" LCD display • Compatible with all Bullard TIs and many competitive models • Receive images from up to 600 ft through typical construction |
| ML2 | 2-Channel MobileLink only <ul style="list-style-type: none"> • Same features as ML1 • Does not include battery, charger, AC/DC adaptors • Receive images from up to 600 ft through typical construction |
| MLUPGRADE | 2-Channel MobileLink Upgrade <ul style="list-style-type: none"> • Upgrade an existing MobileLink handheld receiver for reception from 600 ft through typical construction |
| ML3 | 4-Channel MobileLink <ul style="list-style-type: none"> • Same features as ML1 |
| ML4 | 4-channel MobileLink only <ul style="list-style-type: none"> • Does not include battery, charger, AC/DC adaptors |
| MLANTENNA | Replacement antenna for MobileLink |



SceneCatcher™ Digital Video Recorder

Built into the handle of a Bullard transmitter, firefighters now have the capability to capture still images and video from any T3 or T4 Series Bullard Thermal Imager.

| | |
|-----------------|---|
| SS | SceneCatcher DVR <ul style="list-style-type: none"> Digital video recorder Includes CD-Rom with instruction, download software and data cable Records up to 60 minutes of video, plus 300 still images |
| SSTRANS2 | SceneCatcher DVR and 2-channel Transmitter <ul style="list-style-type: none"> Digital video recorder 2-Channel wireless remote transmitter Includes CD-Rom with instruction, download software and data cable Receiver not included Records up to 60 minutes of video, plus 300 still images Transmits 2000 feet line of sight and 600 feet through typical construction |



Mobile Command Center Receiving System

The Mobile Command Center offers an all-in-one receiving and recording system. This is the ultimate field deployable command center, offering options to receive, display, record and play back. Housed in a rugged, watertight case, the Mobile Command Center provides a comprehensive set of tools for capturing and monitoring thermal imaging video.

| | |
|-------------------|--|
| MCC1 | 2-Channel Mobile Command Center <ul style="list-style-type: none"> Includes Sony® Hi-8 recorder, remote control and cassette Battery and AC/DC adaptors included (110VAC/12VDC/batteries) 5" LCD display |
| MCC2 | 2-Channel MobileCommand Center <ul style="list-style-type: none"> Same features as MCC1, but no recorder |
| MCC3 | 4-Channel Mobile Command Center <ul style="list-style-type: none"> Same features as MCC1 |
| MCC4 | 4-Channel Mobile Command Center <ul style="list-style-type: none"> Same features as MCC1, but no recorder |
| MCCANTENNA | Replacement antenna for Mobile Command Center |



Receivers

| | |
|-------------------|---|
| REC | 4-Channel Receiver <ul style="list-style-type: none"> Omni directional antenna All necessary cables Compatible with all Bullard 4-channel transmitting thermal imagers Integrate wireless reception into your current video system |
| REC2 | 2-Channel Receiver <ul style="list-style-type: none"> Same as Model REC, with 2-channel receiver Receives 600 ft through typical construction |
| RECUPGRADE | 2-Channel Receiver Upgrade <ul style="list-style-type: none"> Upgrade an existing receiver box to an improved performance, 2-channel receiver: 600 ft through ordinary construction |

T3 and T4 Series Accessories

POWERHOUSE **T3 or T4 Truck Mount Direct Charge System**

- Charges T3 or T4 as well as spare battery
- Hardwire installation ready
- Attachment hardware
- NFPA 1901 compliant



POWERHOUSEKIT **T3 or T4 Truck Mount Direct Charge System**

- Free-standing kit for Powerhouse
- Includes AC adaptor for use in station house
- All necessary hardware



T3HANDLE **T3 and T4 Thermal Imager Handle**

- Optional attachable handle
- Does not include transmitter



HARDCASE **T3 and T4 Carrying Case**

- Optional hard carrying case
- Stores T3 or T4
- Will also hold Transmit Handle, MobileLink, Tacport, charger, and two spare batteries
- Pelican™ case with unconditional lifetime guarantee



CASEFOAM **Hardcase Replacement foam insert with accessory accommodation**



T3ALK **Alkaline Battery Case**

- Power your T3 or T4 Series Thermal Imager with alkaline batteries
- Alkaline battery case
- Eight AA alkaline batteries required
- Batteries not included
- Not for rechargeable batteries








T3RETRACT **Retractable Strap**

- Extendable strap designed to keep T3 or T4 out of the way while crawling and working









T3 and T4 Series | Accessories and Replacement Parts

T3 and T4 Series Accessories

| | | |
|---------------------------|--|---|
| TACPORT | <p>Attachable utility block</p> <ul style="list-style-type: none"> • 12VDC operation via included cigarette-plug adaptor provides BNC video out with RCA adaptor included • Provides power out also • Maintains tripod mount • For use in recording T3 or T4 images or extended surveillance operations |  |
| T3GLARESHIELD | <p>T3 Series Glare Shield</p> <ul style="list-style-type: none"> • Provides maximum visibility during size-up and other bright conditions |  |
| T4GLARESHIELD | <p>T4 Series Glare Shield</p> <ul style="list-style-type: none"> • Provides maximum visibility during size-up and other bright conditions |  |
| T3GLARESHIELDLENS | <p>TacSight Glare Shield Replacement Lens</p> <ul style="list-style-type: none"> • Fits T3 Glare Shield and T4 Glare Shield |  |
| T3GLARESHIELDCLIPS | <p>TacSight Glare Shield Replacement Clips</p> <ul style="list-style-type: none"> • Replacement clips for T3 Glare Shield |  |

Bullard T3 and T4 Series Replacement Parts

| | | |
|---------------------|---|---|
| OMNI | <p>Remote Receiver Antenna</p> <ul style="list-style-type: none"> • Omni directional antenna • Permanent and magnetic mounts included • For T3 or T4 |  |
| OMNIONLY | <p>Remote Receiver Antenna</p> <ul style="list-style-type: none"> • Omni directional antenna • Antenna mounts not included • For T3 or T4 |  |
| T3STRAPKIT | <p>T3 or T4 Replacement Strap Kit</p> <ul style="list-style-type: none"> • T3 or T4 side straps • Right and left included |  |
| T3COMBOSTRAP | <p>T3 or T4 Combo Strap</p> <ul style="list-style-type: none"> • Combination wrist and gear strap |  |
| T3WINDOW | <p>T3 Replacement Window</p> <ul style="list-style-type: none"> • Hard coated polycarbonate display shield • Fits T3 Series Imagers and MobileLink handheld receiver |  |
| T4WINDOW | <p>T4 Replacement Window</p> <ul style="list-style-type: none"> • Hard coated polycarbonate display shield |  |

T3 and T4 Series | Thermal Imager Replacement Parts

| | |
|----------------------|---|
| T3LCDGUARD | T3 Replacement LCD Guard (Rear boot) <ul style="list-style-type: none"> Fits T3 Series Thermal Imagers or MobileLink handheld receivers |
| T4LCDGUARD | T4 Replacement LCD Guard (Rear boot) |
| T3CHARGERBASE | Charger Base for T3 or T4 Series <ul style="list-style-type: none"> Does not include power adaptors and cords |
| ACADAPTOR | 110 Volt AC Adaptor <ul style="list-style-type: none"> For use with T3 or T4 Charger Base |
| CARADAPTOR | DC Car Adaptor <ul style="list-style-type: none"> Car adaptor for use with T3 or T4 Charger Base |
| T3NIMH | Rechargeable Battery <ul style="list-style-type: none"> 10 Volt NiMH rechargeable battery Compatible with T3 and T4 Series Thermal Imagers and MobileLink handheld receiver |
| T3PMKIT | Service Kit for T3 <ul style="list-style-type: none"> Left and right side straps Replacement display cover window Battery |
| T3PM | Bullard T3 Preventative Maintenance Service <ul style="list-style-type: none"> Gives thermal imager a “factory new” refurbishment Replacement of maintenance parts Complete diagnostic of thermal imager New outer housing Includes inbound/outbound ground shipping 48 business hour turnaround |
| T4PMKIT | Service Kit for T4 <ul style="list-style-type: none"> Left and right side straps Replacement display cover window Battery |
| T4PM | Bullard T4 Preventative Maintenance Service <ul style="list-style-type: none"> Same service as T3PM above |



Individually Priced Bullard TI Commander Installed Options



Although TI Commander was discontinued in December 2006, the following upgrades and accessories are still available.

| | |
|---|--|
| CMDZOOM | 2X Digital Zoom <ul style="list-style-type: none"> Digitally enlarges image size on screen by 2X |
| CMDCAPTURE | Digital Image Capture System <ul style="list-style-type: none"> Captures 24 digital thermal images Downloadable to a PC via TI Commander data port Custom download software provided Includes data cable |
| CMDRHI | Relative Heat Indicator <ul style="list-style-type: none"> Enables relative surface temperature measurement in Fahrenheit Color-coded sliding bar scale |
| CMDGRAPH | Personalized Startup Graphics <ul style="list-style-type: none"> Personalized startup screen with text message |
| CMDCUSTGRAPH | Custom Personalized Startup Graphics <ul style="list-style-type: none"> Personalized startup screen with customized graphics Customer supplies bitmap file: <ul style="list-style-type: none"> 720 pixels wide x 480 pixels tall 72 dpi resolution |
| <p>Also available: Retrofit of single or multiple installed options on existing unit (shipping not included)</p> | |
| CMDTRANSONLY | 4-Channel Wireless Remote Transmitter <ul style="list-style-type: none"> 4-channel transmitter Receiver not included |
| CMDTRANSONLY2 | 2-Channel Wireless Remote Transmitter <ul style="list-style-type: none"> 2-channel Receiver not included Transmit 600 ft through ordinary construction |
| CMDTRANSUPGRADE | 2-Channel Receiver Upgrade <ul style="list-style-type: none"> Upgrade an existing transmitter to an improved performance, 2-channel receiver: Transmit 600 ft through ordinary construction |

CMDRCACABLE**TI Commander Video Out Cable**

- RCA Cable for thermal imager video capture
- Connect from TI Commander to external monitor or recorder
- Not suitable for high heat environments



CMDTRUCKMNT**TI Commander Truck Mount**

- Truck mount
- Built-in charger
- Mounting gasket
- Attachment hardware



TIGLARESHIELD**Glare-Reducing Leather Shroud**

- Attaches to thermal imager
- Reduces glare in bright sun conditions



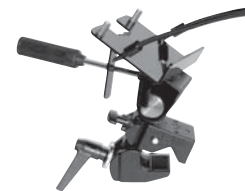
TRIPOD**Thermal Imager Tripod**

- Heavy-duty 4-foot tripod for thermal imager
- Mounting bracket included










CLAMP**Thermal Imaging Clamp System**

- Mount imager to almost any surface
- Use with tripod or as stand alone system



TI Commander | Thermal Imager Replacement Parts

| | | |
|-------------------------|--|---|
| BATTERYNIMHULTRA | <p>Ultra-performance NiMH battery</p> <ul style="list-style-type: none"> • 10 volt high capacity NiMH rechargeable battery • Can be used with TI, TIx and MX Thermal Imagers to increase operating time |  |
| CMDDCCABLE | <p>TI Commander Direct Charge Cable</p> <ul style="list-style-type: none"> • Power cord for direct charging |  |
| CMDDATACABLE | <p>TI Commander Data Transfer Cable</p> <ul style="list-style-type: none"> • Cable for downloading saved digital thermal images • Connects from TI Commander to PC serial port |  |
| DUALCHARGERBASE | <p>TI Commander Dual Charger Base</p> <ul style="list-style-type: none"> • Direct charge battery charger base for NiMH rechargeable batteries • Does not include power adaptors and cords |  |
| ACADAPTOR | <p>15 Volt AC Adaptor</p> <ul style="list-style-type: none"> • For use with TI Commander Charger Base |  |
| CARADAPTOR | <p>DC Car Adaptor</p> <ul style="list-style-type: none"> • Car adaptor for use with TI Commander Charger Base |  |
| BUMPERKIT | <p>Replacement Bumpers</p> <ul style="list-style-type: none"> • Includes three field replaceable bumpers and hardware |  |

Bullard Feature



Transmitter: A Key to Firefighter Safety

Thermal imagers offer tremendous advantages to firefighters by assisting them in seeing what they normally would not be able to see: victims hidden by smoke, exits obscured in darkness, and fire behind walls. Normally, only the firefighters near the thermal imager can benefit from its image. However, by using a transmitter, firefighters can share thermal images with incident commanders (IC), safety officers and RIT teams to help them make better, more informed decisions.

The greatest benefit gained from transmitting a thermal image to a remote location is increased firefighter safety. The transmitted image gives incident commanders the opportunity to “see” what their fire companies are seeing, allowing the IC to provide guidance to interior companies and monitor interior heat conditions. This capability may help an IC determine if interior operations can still be safely performed, and if conditions are improving or deteriorating.



TI Commander | Thermal Imager Replacement Parts

OMNI **Remote Receiver Antenna**

- Omni directional antenna
- Permanent and magnetic mounts included



OMNIONLY **Remote Receiver Antenna.**

- Omni directional antenna
- Antenna mounts not included



SHSTRAP **Shoulder Strap**

- Replacement shoulder strap



STRAPKIT **Replacement Strap Kit**

- Wrist strap
- Side strap
- Top strap
- Kevlar® and leather material



CMDWINDOW **Replacement Window**

- Hard coated polycarbonate display shield



CMDKIT **Service Kit for TI Commander**

- Replacement bumpers
- Side and top straps
- Replacement display cover window
- Battery and direct charge power cord
- A savings of \$38 versus ordering these parts separately.



CMDPM **Bullard TI Commander Preventative Maintenance Service**

- Gives thermal imager a “factory new” refurbishment
- Replacement of maintenance parts
- Complete diagnostic of thermal imager
- New outer housing
- Includes inbound/outbound ground shipping
- 48 business hour turnaround

Tlx and MX Series | Thermal Imager Accessories and Replacement Parts

TRUCKMNT **Truck Mount Direct Charge System for Tlx and MX**

- Truck mount
- Built in charger
- Mounting gasket
- Attachment hardware



TIGLARESHIELD **Glare-Reducing Leather Shroud**

- Attaches to thermal imager
- Reduces glare in bright sun conditions



TRIPOD **Thermal Imager Tripod**

- Heavy-duty 4-foot tripod for thermal imager
- Mounting bracket included



CLAMP **Thermal Imaging Clamp System**

- Mount imager to almost any surface
- Use with tripod or as stand alone system



DCKITUPGRADE **Direct Charge Upgrade Kit**
 (available as new installation or upgrade to existing Tlx/MX direct charge systems)

- Upgrades thermal imager to enable direct battery charging in thermal imager
- Can also be used with optional truck mount system (Part No. TRUCKMNT)
- Kit includes direct charge port and charging cable
- Not recommended for use with NiCad rechargeable batteries



BUMPERKIT **Replacement Bumpers**

- Includes three field replaceable bumpers and hardware



OMNI **Remote Receiver Antenna**

- Omni directional antenna
- Permanent and magnetic mounts included



OMNIONLY **Remote Receiver Antenna**

- Omni directional antenna
- Antenna mounts not included



Tlx and MX Series | Thermal Imager Replacement Parts

BATTERYNIMHULTRA **Ultra-performance NiMH battery**

- 10 volt high capacity NiMH rechargeable battery
- Can be used with TI, Tlx and MX Thermal Imagers to increase operating time



BATTERYNIMH **Rechargeable Battery**

- 10 Volt NiMH rechargeable battery



SHSTRAP **Shoulder Strap**

- Replacement shoulder strap



STRAPKIT **Replacement Strap Kit**

- Wrist strap
- Side strap
- Top strap
- Kevlar® and leather material



TIWINDOW **Replacement Window**

- Hard coated polycarbonate display shield



TIDCPOWERCORD **Direct Charge Power Cord**

- Power cord for direct charger
- Upgraded direct charge port thermal imagers should reorder Part No. CMDCCABLE



TIMXPMKIT **Service Kit for Tlx and MX**

- Replacement bumpers
- Side and top straps
- Replacement display cover window
- Battery and direct charge power cord



SINGLECHARGERBASE **TI Charger Base**

- Charger base for original Bullard TI Thermal Imagers
- No direct charge capability
- For use with NiMH or NiCad batteries
- Does not include power adaptors and cords



DUALCHARGERBASE **Dual Charger Base**

- For use with TI, Tlx and MX systems with direct charge capability
- Does not include power adaptors and cords



ACADAPTOR **110 Volt AC Adaptor**

- For use with Tlx and MX Charger Base



Tix and MX Series | Thermal Imager Replacement Parts and Service

CARADAPTOR

DC Car Adaptor

- Car adaptor for use with TIX and MX Charger Base

TIPM

Bullard Tix Preventative Maintenance Service

- Gives thermal imager a “factory new” refurbishment
- Replacement of maintenance parts
- Complete diagnostic of thermal imager
- New outer housing
- Includes inbound/outbound ground shipping
- 48 business hour turnaround

MXPM

Bullard MX Preventative Maintenance Service

- Same as TIPM above for MX Thermal Imager



Thermal Imaging for Firefighting: Help with Funding

Bullard recognizes the importance of helping fire departments get funding for thermal imagers. We can help you determine the best funding resources through our inSIGHT program for local fundraising, FEMA grant writing assistance, civic club partnerships and financing options.

1) inSIGHT for Local Fundraising

The inSIGHT program trains local leaders to build partnerships and supportive relationships with local government, corporate citizens, and residents. Registrants receive videos, printed materials and a PowerPoint presentation that help them first learn the process of TI fundraising and then reach out to potential donors effectively. For forms and more information on this program, visit www.bullard.com/thermalimager.

2) Getting Budget Money for TI

As the old proverb says, it can't hurt to ask. Getting money through regular budgetary channels may be more possible than you think. If your department has not yet approached its budgeting authority with a request for thermal imagers, materials available through the inSIGHT program can be used to make an effective appeal. For more information on inSIGHT or to order materials, visit www.bullard.com/thermalimager.

3) Grants for Thermal Imaging

Bullard offers support to departments seeking funding for thermal imagers through available grants. This includes information on available grant opportunities, tips for grant writing, and real narratives from departments who have been awarded grant money and a breakdown of available grants each month. Government money is out there for those who know how to get to it.

4) Civic Clubs

Bullard encourages fire departments to reach out to civic clubs in their areas to request support for their thermal imager fundraising efforts. Instilling the need for proper equipment in the community not only increases a department's chances of getting it, but also keeps community members mindful of the continuing needs of the public servant.

5) Financing / Leasing

If paying a lump sum up front doesn't look like something that's possible for your department, Bullard does offer the option to finance or lease the camera. The programs vary and are flexible.

6) Fireman's Fund Heritage program

In an effort to help provide firefighters with thermal imagers, Bullard is proudly partnering with Fireman's Fund Insurance Company to provide fire departments across the country with Bullard thermal imaging cameras through the Fireman's Fund Heritage program.



The Bullard Save-A-Life Club is a reward and recognition program for firefighters who save a civilian life or escape a life-threatening situation while using a Bullard Thermal Imager.

Fire departments inducted into the Bullard Save-A-Life Club are honored with a local award ceremony, at which rescuers receive distinctive military-style medals mounted in personalized display boxes, along with service ribbons, certificates and uniform patches that commemorate the life-saving event. Department leaders, local funding leaders and TI trainers receive personalized recognition gifts as well. Members of the local media are invited to cover the event.

If firefighters in your department have saved a life while using a Bullard TI, be sure to submit your story for proper recognition. Visit www.bullard.com to submit a nomination, see a list of previous recipients and find more information.





Thermal Imaging for Law Enforcement

TacSight, the first line of thermal imagers engineered specifically for law enforcement, is designed for simple operation and optimal flexibility in numerous applications. This expandable product is compatible with a range of performance-enhancing accessories that give law enforcement officers the ability to configure a tool that specifically meets individual job requirements.





Bullard is the world's leader in handheld thermal imager technology, with over 20,000 in service worldwide.

Constant testing and innovation have formed our Thermal Imaging product line into a trusted tool for law enforcement. Find out more about Bullard and its commitment to excellence in law enforcement technology at www.bullard.com/tacsight.

APPLICATIONS FOR LAW ENFORCEMENT

TacSight utilizes the latest thermal imaging technology. Its advanced infrared engine incorporates a high resolution focal plane array that enables maximum clarity for distinguishing objects and features at long distances.

TacSight Thermal Imagers are a powerful tool for tactical, surveillance and scene assessment applications. Their small size and convenient side straps can be held with either hand, freeing an officer's dominant hand for a service weapon or baton.

Fugitive Searches

When ambient light, flashlights or searchlights fail to illuminate a suspect, the suspect's body heat will still be visible to the Bullard Thermal Imager. Monitor suspects without projecting any beam. Body heat is easily detected by the thermal imager, no matter how bright or dark the scene.



Officer Safety

A Bullard Thermal Imager can contribute to officer safety at a number of scenes. Identify fluid leaks or power lines that have been knocked to the ground at a collision scene. Identify fences, dogs and other hazards that may be lurking beyond the range of an officer's flashlight.



Surveillance

Because the thermal imager does not require light and only receives heat energy, it can be used to observe potential criminal activity at a distance. It does not illuminate the officer nor does it signal the officer's presence to the threat. Officers can detect threats without being exposed.



Hidden Compartments

A Bullard Thermal Imager will show a suspicious heat signature that can lead an officer to further investigation. With this advantage, discovery of evidence not visible to the naked eye is more probable.



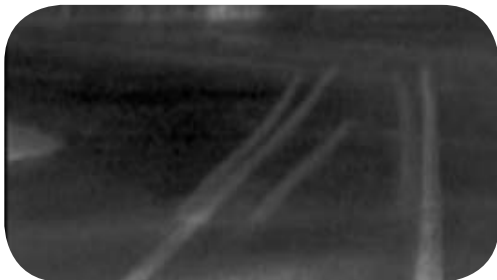
Marine Patrol

A Bullard Thermal Imager can help marine officers covertly monitor an area for illegal activity, such as when smuggled goods are left floating in the water for later pick-up. The heat sources of boats, personal water craft and even swimmers contrast starkly to the background temperatures of the water.



Collision Investigation

Investigators can use the Bullard Thermal Imager to identify the direction of travel, where a vehicle left the roadway and how long the vehicle was braking. It can also be used to help locate victims that may have been ejected from the vehicle.



Evidence Recovery

Gathering evidence can mean the difference in a conviction and a release. Valuable pieces that have been hidden or thrown away can be hard to find, but a Bullard Thermal Imager shows you exactly where it is. Even in heavy undergrowth, discovery is easy.



TacSight SE35

The TacSight SE35 offers the best image quality in the industry. It detects extremely small differences in temperature, so officers can distinguish people from their immediate surroundings. You'll find optimal visibility and advanced features like 4x digital zoom, reverse polarity and variable focus with the TacSight SE35.



TACSIGHTSE35

Bullard TacSight SE35 Thermal Imager

- 320 x 240 Detector
- 17° Field of View
- Human detection at 635 meters
- 30 Hz Refresh
- Palm-sized thermal imager
- TacSwitch - screen dimmer switch
- 2X and 4X Digital Zoom
- Reverse Polarity (switches from “white hot” to “black hot”)
- Variable focus
- Two 10 volt NiMH rechargeable batteries
- Battery charger with AC and DC adaptors
- Shoulder strap
- Pelican™ style hard carrying case with unconditional lifetime guarantee
- Superior image quality for surveillance operations
- Color: Black

SE35EXT

Extended Warranty for TacSight SE35

- Extended warranty for the TacSight SE35 Thermal Imager
- One-year extension
- Must be purchased when TacSight SE35 is ordered

Kit for TacSight SE35

TACSIGHTSE35KIT

Bullard TacSight SE35 Thermal Imaging Kit

Same features as TacSight SE35 plus these accessories:

- HANDLETRANSONLY2 Two Channel Wireless Remote Transmitter handle
- ML2 MobileLink Two Channel Wireless Remote Receiver
- TACSCOPE attachable monocular eyepiece
- TACPORT attachable utility block - power in/power out, video out, tripod mount
- RCN17ALK Alkaline battery pack for alternate AA battery power
- NIMH Spare battery



TacSight S2

Find one button simplicity and durability, along with an upgraded amorphous silicon engine for superior image clarity and picture definition. The optional patented Electronic Threat Tagging™ tool enables the operator to tag heat sources in blue for improved visibility and tracking.

TACSIGHTS2

Bullard TacSight™ S2 Thermal Imager

- 160 x 120 Detector
- 11° Field of View
- Human detection at 500 meters
- Fixed focus, auto gain
- 30Hz Refresh
- Palm-sized thermal imager
- TacSwitch screen dimmer switch
- Direct charge system for use with truck mount (truck mount charger not included)
- Two 10 volt NiMH rechargeable batteries
- Battery charger with AC and DC adaptors
- Shoulder strap
- Pelican™ style hard carrying case with unconditional lifetime guarantee
- Best for longer range surveillance and tactical ops
- Color: Black

TACSIGHTS2WA

Same as TacSight S2 Thermal Imager with Wide Angle

- 50° Field of View
- Human detection at 115 meters
- Best for entry and other close tactical ops

TACSIGHTS2EXT

Extended Warranty for TacSight S2

- Extended warranty for the TacSight S2 and TacSightS2WA Thermal Imager
- One-year extension
- Must be purchased when TacSight S2 is ordered

TACSIGHTS2EXT2

Extended Warranty

- Extended warranty for the TacSight S2 and TacSightS2WA Thermal Imager
- Two-year extension
- Must be purchased when TacSight S2 is ordered

Kits for TacSight S2

TACSIGHTS2KIT

Bullard TacSight S2 Thermal Imaging Kit

Same features as TacSight S2, plus these accessories:

- HANDLETRANSONLY2 Two Channel Wireless Remote Transmitter handle
- ML2 MobileLink Two Channel Wireless Remote Receiver
- TACSCOPE attachable monocular eyepiece
- TACPORT attachable utility block - power in/power out, video out, tripod mount
- RCN17ALK Alkaline battery pack for alternate AA battery power
- NIMH Spare battery

TACSIGHTS2WAKIT

Same as TACSIGHTS2KIT except with Wide Angle

- 50° Field of View

TacSight series | Transmitter and Receiver Options

Transmitting Options (Fits any TacSight Thermal Imager)

Housed in an attachable handle, the multi-channel transmitter enables monitoring of the thermal imaging video remotely. The two-channel Bullard transmitter offers a transmitting distance three times farther than any other transmitter. Weighing well less than one pound, the Bullard transmitter is easily attached to the Bullard thermal imager via a thumb screw connection at the base of the camera.

| | |
|---------------------------|--|
| HANDLETRANSONLY | 4-Channel Wireless Remote Transmitter <ul style="list-style-type: none"> • Attachable/detachable 4-channel transmitter handle • Receiver not included |
| HANDLETRANSONLY2 | 2-Channel Wireless Remote Transmitter <ul style="list-style-type: none"> • Attachable/detachable 2-channel transmitter handle • Receiver not included • Transmit 2000 feet line of sight and 600 ft through typical construction |
| HANDLETRANSUPGRADE | Transmitter Upgrade <ul style="list-style-type: none"> • Upgrade an existing transmitter handle to an improved performance, 2-channel transmitter: transmits 2000 feet line of sight and 600 feet through typical construction |



MobileLink Handheld Receiver

The MobileLink battery-operated receiver allows the user to monitor the scene from distances up to 600 feet, through typical construction. With a crystal-clear display, two- or four-channel availability and BNC/RCA video out jack, the MobileLink receiver can help improve the effectiveness of the operations and increase firefighter safety.

| | |
|------------------|--|
| ML1 | 2-Channel MobileLink, <ul style="list-style-type: none"> • Includes battery, battery charger, and AC/DC adaptors • 3.5" LCD display • Compatible with all Bullard TIs and many competitive models • Receive images from 600 ft through typical construction |
| ML2 | 2-Channel MobileLink only <ul style="list-style-type: none"> • Same features as ML1 • Does not include battery, charger, AC/DC adaptors • Receive images from 600 ft through typical construction |
| MLUPGRADE | 2-Channel MobileLink Upgrade <ul style="list-style-type: none"> • Upgrade an existing MobileLink handheld receiver to an improved performance, 2-channel receiver: Receive images from 600 ft through typical construction |
| ML3 | 4-Channel MobileLink <ul style="list-style-type: none"> • Same features as ML1 |
| ML4 | 4-channel MobileLink only <ul style="list-style-type: none"> • Same features as ML1 • Does not include battery, charger, AC/DC adaptors |



SceneCatcher Digital Video Recorder

Built into the handle of a Bullard transmitter, officers now have the capability to capture still images and video on the scene from any TacSight thermal imager.

| | |
|--------------------|--|
| TACSS | TacSight SceneCatcher DVR <ul style="list-style-type: none"> • Digital video recorder • Includes CD-Rom with instruction, download software and data cable • Non-reflective decals • Records up to 60 minutes of video, plus 300 still images |
| TACSSTRANS2 | TacSight SceneCatcher DVR and 2-channel Transmitter <ul style="list-style-type: none"> • Digital video recorder • 2-Channel wireless remote transmitter • Includes CD-Rom with instruction and download software • Non-reflective decals • Receiver not included • Records up to 60 minutes of video, plus 300 still images |



Mobile Command Center Receiving System

The Mobile Command Center offers an all-in-one receiving and recording system. This is the ultimate field deployable command center, offering options to receive, display, record and play back. Housed in a rugged, watertight case, the Mobile Command Center provides a comprehensive set of tools for capturing and monitoring thermal imaging video.

| | |
|-------------------|--|
| MCC1 | 2-Channel Mobile Command Center <ul style="list-style-type: none"> • Includes Sony® Hi-8 recorder, remote control and cassette • Battery and AC/DC adaptors included (110VAC/12VDC/batteries) • 5" LCD display |
| MCC2 | 2-Channel MobileComand Center <ul style="list-style-type: none"> • Same features as MCC1, except no recorder |
| MCC3 | 4-Channel Moblile Command Center <ul style="list-style-type: none"> • Same features as MCC1 |
| MCC4 | 4-Channel Moblile Command Center <ul style="list-style-type: none"> • Same features as MCC1, except no recorder |
| MCCANTENNA | Replacement antenna for Mobile Command Center |



Receivers

| | |
|-------------------|---|
| REC | 4-Channel Receiver <ul style="list-style-type: none"> • Omni directional antenna • All necessary cables • Compatible with all Bullard 4-channel transmitting thermal imagers • Integrate wireless reception into your current video system |
| REC2 | 2-Channel Receiver <ul style="list-style-type: none"> • Same as Model REC, with 2-channel receiver • Receive images from 600 ft through typical construction |
| RECUPGRADE | 2-Channel Receiver Upgrade <ul style="list-style-type: none"> • Upgrade an existing receiver box to an improved performance, 2-channel receiver: Receive images from 600 ft through typical construction |



TacSight series | Accessories

TACPOWERHOUSE

TacSight Truck Mount Direct Charge System

- Charges TacSight as well as spare battery
- Hardwire installation ready
- Attachment hardware
- NFPA 1901 compliant
- Not compatible with SE35



POWERHOUSEKIT

TacSight Mount Direct Charge System

- Free-standing kit for Powerhouse
- Includes AC adaptor
- All necessary hardware



HANDLE

TacSight Handle

- Optional attachable handle
- Does not include transmitter
- Non-reflective labels



RCN17ALK

Alkaline Battery Case

- Alkaline battery case
- Eight AA alkaline batteries required
- Batteries not included
- Not compatible with rechargeable batteries



T3RETRACT

Retractable Strap

- Extendable strap designed to keep TacSight out of the way while crawling and working



Bullard Feature

Image Interpretation

The image at right shows what type of personal information can be gathered by a thermal imager. Given this image, basic descriptors could include height, weight, build and basic clothing description. We can tell, for instance, that this (likely male) individual is wearing pants and a long-sleeve, v-neck shirt with the sleeves pushed up around the elbows. We cannot determine things like race, age or hair color. More importantly, we can plainly see that this person is holding a gun in a combat grip and is wearing soft body armor (SBA). SBA can be seen, whether concealed or not, because it interferes with the thermal signature of the person's body heat. The immediate question that comes to mind is: "Suspect or other responding officer?" While it does happen, suspects rarely wear SBA. Officers on the other hand usually do. **If your thermal imager produced this image, how would you respond?**



| | |
|-----------------|---|
| TACSCOPE | <p>Attachable Monocular Eyepiece</p> <ul style="list-style-type: none"> • Safety and security enhanced for tactical or covert operations • Clear view of thermal image • Easily removed for low threat operations • Eliminates backlighting of face, by LCD screen, during high risk situations • The only attachable/detachable monocular eyepiece for thermal imaging - a Bullard exclusive |
|-----------------|---|



| | |
|----------------|--|
| TACPORT | <p>Attachable Utility Block</p> <ul style="list-style-type: none"> • 12VDC operation via included cigarette-plug adaptor provides BNC video out with RCA adaptor included • Provides power out also • Maintains tripod mount • For use in recording TacSight images or extended surveillance operations |
|----------------|--|



| | |
|----------------------|--|
| T3GLARESHIELD | <p>TacSight Glare Shield</p> <ul style="list-style-type: none"> • Fits S2, SE35 and MobileLink • Eliminates glare for daytime use |
|----------------------|--|



| | |
|--------------------------|---|
| T3GLARESHIELDLENS | TacSight Glare Shield Replacement Lens |
|--------------------------|---|



| | |
|---------------------------|--|
| T3GLARESHIELDCLIPS | TacSight Glare Shield Replacement Clips |
|---------------------------|--|



Bullard TacSight Replacement Parts

| | |
|------------------|---|
| MLANTENNA | Replacement antenna for MobileLink |
|------------------|---|



| | |
|-------------------|--|
| MCCANTENNA | Replacement antenna for Mobile Command Center |
|-------------------|--|



| | |
|--------------------|--|
| TACSTRAPKIT | <p>Replacement Strap Kit</p> <ul style="list-style-type: none"> • Side straps • Right and left included |
|--------------------|--|



| | |
|----------------|--|
| SHSTRAP | <p>Shoulder Strap for TacSight</p> <ul style="list-style-type: none"> • Replacement shoulder strap |
|----------------|--|



| | |
|------------------|--|
| TACWINDOW | <p>TacSight Replacement Window</p> <ul style="list-style-type: none"> • Hard coated polycarbonate display shield • Fits S2, SE35 and MobileLink |
|------------------|--|



| | |
|----------------------|--|
| T3CHARGERBASE | <p>Charger Base for TacSight Series</p> <ul style="list-style-type: none"> • Does not include power adaptors and cords |
|----------------------|--|



TacSight series | Replacement Parts

ACADAPTOR

110 Volt AC Adaptor

- For use with Charger Base



CARADAPTOR

DC Car Adaptor

- Car adaptor for use with Charger Base



NIMH

Rechargeable Battery

- 10 Volt NiMH rechargeable battery
- Fits S2, SE35 and MobileLink



TACPMKIT

Service Kit for TacSight

- Left and right side straps
- Replacement display cover window
- Battery



HARDCASE

TacSight Carrying Case

- Replacement hard carrying case
- Stores TacSight thermal imager and accessories
- Pelican™ case with unconditional lifetime guarantee



CASEFOAM

TacSight Replacement foam insert with accessory accommodation



LCDGUARD

Replacement LCD Guard (Rear boot)

- Fits S2, SE35 and MobileLink



TACPM

TacSight Preventative Maintenance Service

- Gives thermal imager a “factory new” refurbishment
- Replacement of maintenance parts
- Complete diagnostic of thermal imager
- New outer housing
- Includes inbound/outbound ground shipping
- 48 business hour turnaround



Save Or Apprehension
Recognition (SOAR) Program

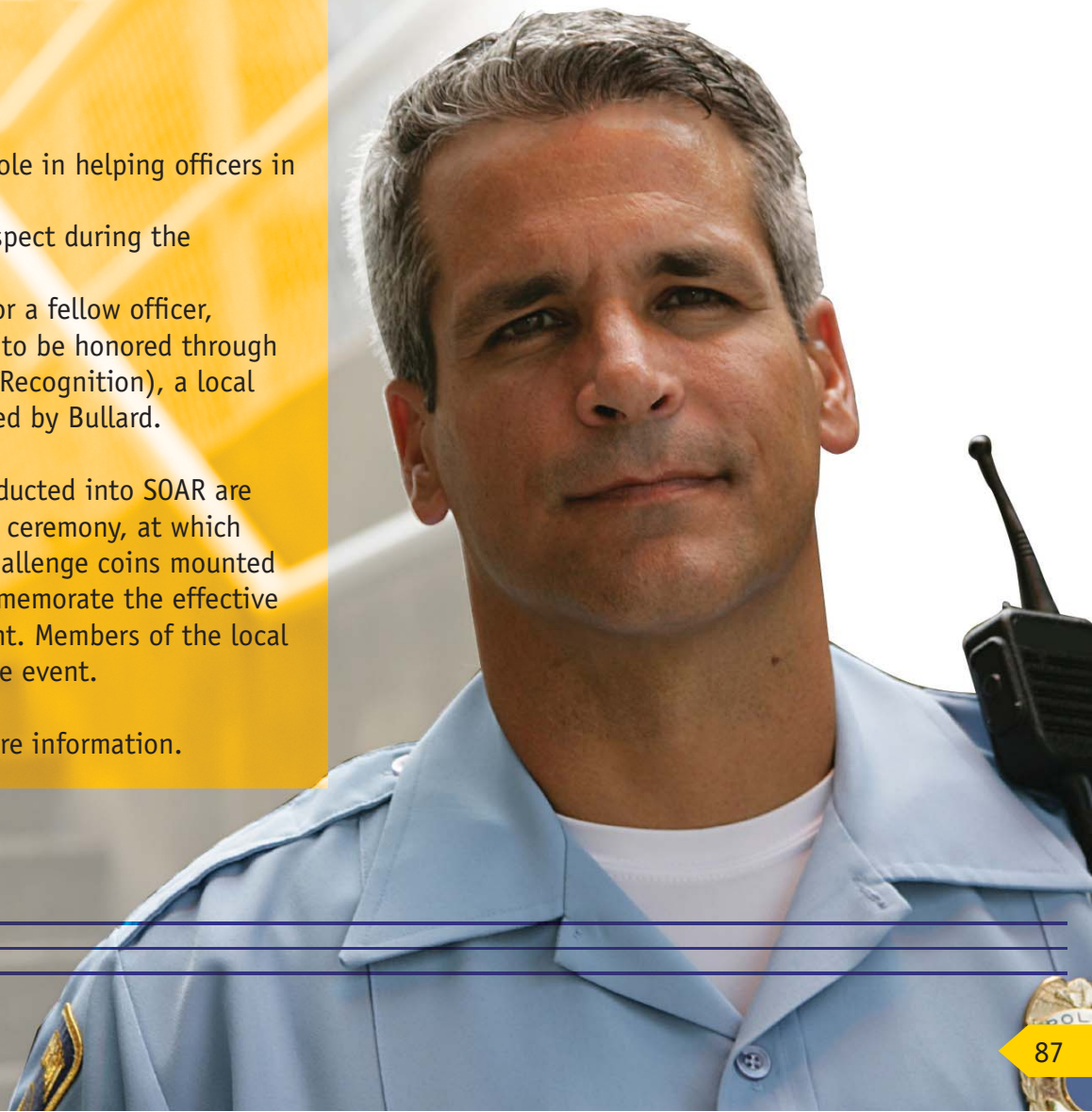
Partners in Service.

If TacSight played a critical role in helping officers in your department:

- 1) apprehend a felon or a suspect during the commission of a felony, or
 - 2) save the life of a civilian or a fellow officer,
- your department may qualify to be honored through SOAR (Save Or Apprehension Recognition), a local recognition program sponsored by Bullard.

Law enforcement agencies inducted into SOAR are honored during a local award ceremony, at which officers receive distinctive challenge coins mounted in presentation cases to commemorate the effective use of TacSight in the incident. Members of the local media are invited to cover the event.

Visit www.bullard.com for more information.



Thermal Imaging for Law Enforcement: **Help with Funding**

Bullard recognizes the importance of helping law enforcement find funding for thermal imagers. We can help you determine the grants most appropriate for your department by keeping you up-to-date on available grants, applications periods and submission processes. In addition, Bullard offers other resources to help you along the road to successful funding.

The road to successful funding can be complicated, and Bullard understands that. So that you have the best information, we are always happy to help out.

1) How Have Others Done it?

Many ways. A number of departments have successfully applied for thermal imaging grants and been awarded, while others have raised money through fundraising efforts. The key is finding the source appropriate for your department.

2) Getting Budget Money for TIs

As the old proverb says, it can't hurt to ask. Getting money through regular budgetary channels may be more possible than you think. If your department has not yet approached its budgeting authority with a request for thermal imagers, it might be a good idea to do so. Visit www.bullard.com/funding to find materials to help make an effective appeal.

3) Grants for Thermal Imaging

Bullard offers support to departments seeking funding for thermal imagers through available grants. This includes information on application dates, instructions on how to apply and tips on how to write a successful grant. We'll even look over your grant after you've written and offer helpful suggestions! The money is out there, the key is knowing how to get it.

4) Civic Clubs

Bullard encourages police departments to reach out to civic clubs in their areas to request support for their thermal imager fundraising efforts. Instilling the need for proper equipment in the community not only increases a department's chance of getting it, but also keeps community members mindful of the continuing needs of the public servant.

5) Financing/Leasing

If paying a lump sum up front doesn't look like something that's possible for your department, Bullard does offer the option to finance or lease a camera. The programs vary and are flexible.

Thermal Imaging Service

Bullard Service Commitment

Since Bullard introduced its first thermal imager in 1998, the Company has been earning the respect and trust of its customers through its commitment to excellence in service. All thermal imaging customers who send their products in for service or maintenance will receive:

- Up-front pricing;
- 48-hour turnaround;
- Complete system diagnostics;
- Free inbound and outbound shipping; and
- A lifetime warranty for shell replacements.



Bullard Service Approach

The Bullard Service program consists of several elements:

- Simple pricing based on market price tiers, communicated to the customer before the product is sent to Bullard
- Pre-authorization of all TI service returns, for transaction efficiency and speed of turnaround
- E-mail communication to customer upon repair delivery and pickup from Bullard
- Prepaid inbound and outbound shipping for all thermal imagers regardless of warranty status
- Complete system diagnostics on every camera serviced
- Complimentary replacement of straps and display cover window on all repairs
- Lifetime warranty for shell replacements

Keeping Your TI in Top Condition

The Preventative Maintenance program at Bullard allows a fire department to return its thermal imager to "like new" condition, replacing maintenance parts, providing a complete diagnostic of the thermal imager and replacing the outer housing and straps. Especially for heavy users, the Preventative Maintenance program can restore the water resistant integrity of the outer shell to help prevent water from intruding into the electronics. In short, the Preventative Maintenance program enables you to catch small problems before they become big problems. As with repairs, Bullard offers 48-hour turnaround on preventative maintenance. For more information, call 877-BULLARD.

TI Training

Bullard is committed to ensuring that thermal imager users have the proper training to use thermal imaging technology effectively. In fact, Bullard employs firefighters and law enforcement officers in a full-time training capacity. These experienced trainers consistently offer instructional materials that aid users in their applications. With your new Bullard Thermal Imager, your department can receive hands-on training, classroom thermal imaging education, helpful take-away materials and informative question-answer sessions. Bullard thermal imaging training is more than simple how-to instructions. It's real-life, interactive and customized for the needs of your department. Visit www.bullard.com to find training articles, lessons learned and other training resources.



Index by Topic

| | | | |
|--|-----------------------|--|---------------|
| Adaptors | 67, 70, 74, 86 | Scenecatcher | 64, 83 |
| AX Series Fire Helmets | 26-27 | SOAR Program | 87 |
| <i>Helmet and Shroud Accessories</i> | 28 | TacPort | 85 |
| Carrying Case | 65, 86 | TacScope | 85 |
| Ceremonial Plaques | 53 | T320 Series TI | 60 |
| EMS and Rescue Helmets | 36-37 | <i>Accessories</i> | 65-67 |
| <i>Replacement Parts and Accessories</i> | 38-40 | <i>Receivers</i> | 63-64 |
| FX Series Fire Helmets | 12-14 | <i>Transmitters</i> | 63 |
| <i>Replacement Parts and Accessories</i> | 15-18 | T3MAX Series TI | 61 |
| Glareshield | 66, 85 | <i>Accessories</i> | 65-67 |
| Helmet Ornamentation | | <i>Receivers</i> | 63-64 |
| <i>Crescent Lettering</i> | 44 | <i>Transmitters</i> | 63 |
| <i>Front Decals</i> | 42-43 | T3XT Series TI | 62 |
| <i>Leather front badges</i> | 46 | <i>Accessories</i> | 65-67 |
| <i>Leather fronts</i> | 47-51 | <i>Receivers</i> | 63-64 |
| <i>Scotchlite® letters and numbers</i> | 45 | <i>Transmitters</i> | 63 |
| LT Series Fire Helmets | 20-21 | T4 Series TI | 58 |
| <i>Replacement Parts and Accessories</i> | 22-24 | <i>Accessories</i> | 65-67 |
| Mobile Command Center | 64, 83 | <i>Receivers</i> | 63-64 |
| MobileLink | 63, 82 | <i>Transmitters</i> | 63 |
| Powerhouse | 65, 84 | TI Commander | |
| Preventative Maintenance | 67, 86 | <i>Accessories</i> | 69 |
| PX Series Fire Helmets | 12-14 | <i>Replacement Parts</i> | 70-71 |
| <i>Replacement Parts and Accessories</i> | 15-18 | <i>Upgrades</i> | 68 |
| S2 Series TI | 80 | Tix and MX | |
| <i>Accessories</i> | 84-85 | <i>Accessories</i> | 72 |
| <i>Receivers</i> | 82-83 | <i>Replacement Parts</i> | 73-74 |
| <i>Replacement Parts</i> | 85-86 | UST Series Fire Helmets | 4-7 |
| <i>Transmitters</i> | 82 | <i>Replacement Parts and Accessories</i> | 8-11 |
| Save-A-Life Club | 75 | Wildfire Series Fire Helmets | 30-31 |
| SE35 Series TI | 81 | <i>Replacement Parts and Accessories</i> | 32-34 |
| <i>Accessories</i> | 84-85 | | |
| <i>Receivers</i> | 82-83 | | |
| <i>Replacement Parts</i> | 85-86 | | |
| <i>Transmitters</i> | 82 | | |

Bullard Feature Index

| | | | |
|--|----|---|----|
| Advantages of a Lightweight Helmet | 15 | Keeping Your TI in Top Condition | 89 |
| Customize your Helmet | 41 | Matte Finish for Fire Helmets | 6 |
| Fire Helmet Myths, Part 1 | 29 | NFPA Standards | 25 |
| Fire Helmet Myths, Part 2 | 35 | SceneCatcher™ Digital Video Recording | 60 |
| "Get the Picture" Newsletter | 61 | Thermal Throttle and Super Red Hot | 59 |
| Helmet Composition | 19 | Thermal Imager Training | 59 |
| Help with Funding: Firefighting | 74 | Service Approach | 89 |
| Help with Funding: Law Enforcement | 88 | Service Commitment | 89 |
| Image Interpretation | 84 | Transmitters | 69 |

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all the time



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Index by Part Number

| | | | | | |
|---------------------------|----------------|-----------------------------|-------------------|--------------------|----------|
| 100G. | 33 | CMDDATACABLE. | 70 | ML2. | 63,82 |
| 112G. | 33 | CMDDCCABLE. | 70 | ML3. | 63,82 |
| 400P. | 50 | CMDGRAPH. | 68 | ML4. | 63,82 |
| 401. | 50 | CMDKIT. | 71 | MLANTENNA. | 63,85 |
| 402. | 50 | CMDPM. | 71 | MLUPGRADE. | 63,82 |
| 431. | 50 | CMDRCABLE. | 69 | MXPM. | 74 |
| 500P. | 50 | CMDRHI. | 68 | NIMH. | 86 |
| 501. | 50 | CMDRTRUCKMNT. | 69 | OMNI. | 66,71,73 |
| 502. | 50 | CMDTRANSONLY. | 68 | OMNIONLY. | 66,71,73 |
| 503. | 50 | CMDTRANSONLY2. | 68 | OR110. | 42 |
| 504. | 50 | CMDTRANSUPGRADE. | 68 | OR120. | 42 |
| 505. | 50 | CMDWINDOW. | 71 | OR121. | 42 |
| 532. | 50 | CMDZOOM. | 68 | OR122. | 42 |
| 600P. | 51 | DCKITUPGRADE. | 72 | OR123. | 43 |
| 601. | 50 | DUALCHARGERBASE. | 70, 74 | OR124. | 43 |
| 602. | 50 | EL1. | 34, 38 | OR130. | 43 |
| 603. | 50 | EL2. | 34, 38 | OR131. | 43 |
| 604. | 50 | EL3. | 8, 15 | OR132. | 43 |
| 605. | 51 | ES4. | 8, 15, 33, 38 | OR133. | 43 |
| 606. | 51 | ES5. | 8, 15, 33, 38 | OR140. | 42 |
| 607. | 51 | ESRTSL. | 32 | OR145. | 42 |
| 608. | 51 | ESSARSLV-N. | 8, 15, 24, 34, 38 | OR150. | 42 |
| 609. | 51 | ESULTRA. | 32 | OR300. | 44 |
| 610. | 51 | ET. | 34, 38 | OR301. | 44 |
| 611. | 51 | EZEX. | 8, 15, 34, 38 | OR302. | 44 |
| 612. | 51 | FH911C. | 31 | OR303. | 44 |
| 634. | 51 | FH911CR. | 31 | OR304. | 44 |
| 636. | 51 | FH911H. | 31 | OR305. | 44 |
| 680P. | 33 | FH911HR. | 31 | OR307. | 44 |
| 6NY. | 51 | FIREPLAQUE. | 53 | OR308. | 44 |
| 860P. | 33 | FX. | 14 | OR309. | 44 |
| 8S24. | 33 | FXA1. | 14 | OR310. | 44 |
| A1. | 37 | FXG. | 14 | OR311. | 44 |
| A101. | 39 | GC100. | 34 | OR312. | 44 |
| A110. | 39 | HANDLE. | 84 | OR313. | 44 |
| A2. | 37 | HANDLETRANSONLY. | 82 | OR315. | 44 |
| ACADAPTOR. | 67, 70, 74, 86 | HANDLETRANSONLY2. | 82 | OR316. | 44 |
| ADFB. | 39 | HANDLETRANSUPGRADE. | 82 | OR320. | 44 |
| ADRTSL. | 39 | HARDCASE. | 65, 86 | OR326. | 44 |
| AX. | 27 | IZ2. | 8, 15 | OR327. | 44 |
| AXMIL. | 27 | IZ3. | 8, 15 | OR400. | 45 |
| AXMILB. | 27 | IZ4. | 24, 40 | OR401. | 45 |
| AX/UST. | 27 | LCDGUARD. | 86 | OR402. | 45 |
| AX/UST/MIL. | 27 | LT. | xx | OR450. | 45 |
| AX/UST/MILB. | 27 | LTG4. | xx | OR451. | 45 |
| BATTERYNIMH. | 73 | LTX. | 21 | OR452. | 45 |
| BATTERYNIMHULTRA. | 70, 73 | LTG4X. | 21 | OR500. | 45 |
| BUMPERKIT. | 70, 73 | MCC1. | 64, 83 | OR501. | 45 |
| CARADAPTOR. | 67, 70, 74, 86 | MCC2. | 64, 83 | OR502. | 45 |
| CASEFOAM. | 65, 86 | MCC3. | 64, 83 | OR503. | 9 |
| CLAMP. | 69, 72 | MCC4. | 64, 83 | OR550. | 45 |
| CMDCAPTURE. | 68 | MCCANTENNA. | 64, 83, 85 | OR551. | 45 |
| CMDCUSTGRAPH. | 68 | ML1. | 63, 82 | OR552. | 45 |

| | | | | | |
|------------------------|--------------------|-----------------------------|----------------|--------------------------|--------|
| OR600. | 9 | R726YLW. | 10, 16, 24, 32 | T4WINDOW. | 66 |
| OR600ML. | 9 | R741. | 10, 16, 24 | TACPM. | 86 |
| POWERHOUSE. | 65 | R746. | 10, 17, 24 | TACPORT. | 66, 85 |
| POWERHOUSEKIT. | 65, 84 | R757. | 28 | TACPOWERHOUSE. | 84 |
| PX. | 13 | R758. | 28 | TACSCOPE. | 85 |
| PXG. | 13 | R761. | 28 | TACSIGHTS2. | 81 |
| R112. | 9, 17 | R921. | 10, 17 | TACSIGHTS2EXT. | 80 |
| R141. | 22 | R921L. | 17 | TACSIGHTS2KIT. | 80 |
| R142. | 22 | R929. | 24, 40 | TACSIGHTS2WAKIT. | 80 |
| R144. | 17 | RCN17ALK. | 84 | TACSIGHTS2WA. | 80 |
| R146. | 17 | REC. | 64, 83 | TACSIGHTSE35. | 80 |
| R148. | 10 | REC2. | 64, 83 | TACSIGHTSE35KIT. | 81 |
| R151. | 18 | RECUPGRADE. | 64, 83 | TACSS. | 83 |
| R152. | 9 | SE35EXT. | 81 | TACSSTRANS2. | 83 |
| R154. | 22, 40 | SHSTRAP. | 71, 73, 85 | TACSTRAPKIT. | 85 |
| R155. | 22, 40 | SINGLECHARGERBASE. | 74 | TACWINDOW. | 85 |
| R156. | 9 | SS. | 83 | TIDCPOWERCORD. | 73 |
| R157. | 9 | SSTRANS2. | 64 | TIGLARESHIELD. | 69, 72 |
| R160. | 10, 17, 22, 40 | STRAPKIT. | 71, 73 | TIMXPMKIT. | 73 |
| R172. | 40 | T320. | 60 | TIPM. | 74 |
| R220. | 32 | T320EXT. | 60 | TIWINDOW. | 73 |
| R222. | 32 | T320EXT2. | 60 | TRIPOD. | 69, 72 |
| R223. | 32 | T3ALK. | 65 | TRUCKMNT. | 72 |
| R260. | 28 | T3CHARGERBASE. | 67, 85 | USRX. | 37 |
| R261. | 28 | T3COMBOSTRAP. | 67 | UST5. | 5 |
| R309. | 8 | T3GLARESHIELD. | 66, 85 | UST6. | 5 |
| R325. | 18, 22, 39 | T3GLARESHIELDCLIPS. | 66, 85 | UST6BRK. | 6 |
| R330. | 9, 18, 22, 39 | T3GLARESHIELDLENS. | 66, 85 | UST6ML. | 6 |
| R333. | 18, 22 | T3HANDLE. | 65 | USTBRK. | 6 |
| R334. | 9 | T3LCDGUARD. | 67 | USTG2. | 6 |
| R340. | 28 | T3MAX. | 61 | USTG26BRK. | 7 |
| R400. | 49 | T3MAXEXT. | 61 | USTG26BRKML. | 7 |
| R50. | 33 | T3MAXEXT2. | 61 | USTG26ML. | 7 |
| R51. | 33 | T3NIMH. | 67 | USTG2BRK. | 7 |
| R533. | 18, 23, 39 | T3PM. | 67 | USTM5. | 5 |
| R534. | 18, 23, 39 | T3PMKIT. | 67 | USTM6. | 5 |
| R535. | 10 | T3RETRACT. | 65, 84 | USTM6BRK. | 6 |
| R536. | 32 | T3STRAPKIT. | 66 | USTM6BRKML. | 6 |
| R537. | 32 | T3TRANSONLY. | 63 | USTM6ML. | 6 |
| R539. | 10 | T2TRANSONLY2. | 63 | USTMBRK. | 6 |
| R545. | 10 | T3TRANSUPGRADE. | 63 | USTMG2. | 6 |
| R549. | 10 | T3XT. | 62 | USTMG26. | 6 |
| R624. | 23, 40 | T3XTEXT. | 62 | USTMG26ML. | 6 |
| R628. | 16 | T3XTEXT2. | 62 | USTMG26BRK. | 7 |
| R634. | 23 | T3WINDOW. | 66 | USTMG26BRKML. | 7 |
| R635. | 10, 16 | T4. | 58 | USTMG2BRK. | 7 |
| R635L. | 10, 16 | T4EXT. | 58 | WFB. | 34, 38 |
| R637. | 10, 16 | T4GLARESHIELD. | 66 | XTO. | 34, 38 |
| R637L. | 16 | T4GLARESHIELDLENS. | 65 | | |
| R645. | 10 | T4GLARESHIELDCLIPS. | 65 | | |
| R721. | 10, 16, 23, 40 | T4LCDGUARD. | 67 | | |
| R721YLW. | 10, 16, 23, 32, 40 | T4PM. | 67 | | |
| R726. | 10, 16, 23 | T4PMKIT. | 67, 86 | | |



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