Defender[®] Visor for Cairns[®] Modern Style Helmets

660C Metro[™] | Invader 664[™] | Commando HP3[®] Protective Helmets





Integral, retractable, close-fitting visor for modern-style Cairns® Helmets. Pull the visor down to protect eyes; push it up to stow inside helmet. Low-profile, rugged eye protection.

- Eye protection stays clean stored inside the helmet.
- Lowest-profile helmet available is good for tight spaces.
- Order with your new helmet or as a user-upgrade kit.
- Never lose or misplace your eye protection again.

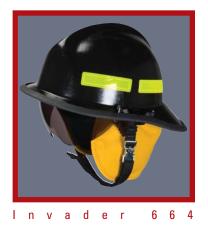
MSA's Defender Visor is retractable eyewear that's ready when you need it. It can be worn with three modern-style Cairns helmets: The 660C Metro, the Invader 664, and the Commando HP3. It stays clean inside your helmet until you need eye protection during overhaul and non-IDLH search-and-recovery.

The Defender Visor's exclusive design defines compact convenience. Its sleekness and attractive construction promote fast, easy raising and lowering, even with gloved hands. And don't be conerned about slippage. It's securely stowed until YOU pull it down.

Standard clear and amber Tuffshield visors are compliant with NFPA 1971, and all Defender Visors meet ANSI Z87.1+ Standard. The optically correct lens eliminates peripheral distortion. The visor qiuckly disconnects for fast lens changes, and requires no tools.













If you're thinking of buying a new Cairns helmet with a lower profile or if you're ready to replace the impact cap in your current modern-style Cairns Helmet, consider the streamlined advantages of adding the new NFPA-compliant Defender Visor from MSA.

New Cairns helmet assemblies incorporating the patent-pending Defender Visor may be ordered through the Modern Helmets Assemble-To-Order Matrix (see last page). An upgrade kit (includes new impact cap) lets you install the Defender Visor in your modern-style Cairns helmet yourself.

Together, the Defender Visor and MSA's Cairns modern-style helmets give you durability, lightweight, and a high-performance design with the lowest profile fire helmet available. Once again, MSA has incorporated the latest technological advances with the best helmet materials and design.



Description	Part number						
Defender Upgrade Assembly (660/664 Only)							
Clear Lens w/ QR Chinstrap	10092441						
Amber Tuffshield Lens w/ QR Chinstrap	10092442						
Smoke Lens w/ QR Chinstrap	10092443						
Mirror Lens w/ QR Chinstrap	10092444						
Clear Lens w/ Slide	10092445						
Amber Tuffshield Lens w/ Slide	10092446						
Smoke Lens w/ Slide	10092447						
Mirror Lens w/ Slide	10092448						
Defender Replacement Lens Assembly							
Lens Assembly, Clear, Defender	10077117						
Lens, Assembly, Amber Tuffshield, Defender	10077118						
Lens, Assembly, Smoke, Defender	10077119						

Description	Part number			
Lens, Assembly, Mirrored, Defender	10077120			
Defender Replacement Earlap				
Nomex, Flannel	10076377			
PBI / Kevlar, PBI / Kevlar Fleece	10076378			
PBI / Kevlar, PBI / Moisture Barrier	10076379			
Nomex, Black, Flannel	10076380			
Defender Replacement Earlap w/ Under-chin Extension				
Nomex, Flannel	10076421			
PBI / Kevlar, PBI / Moisture Barrier	10076422			
Chinstrap Replacement, Defender				
Nomex w/ Quick Release Buckle	C892P			
Nomex w/ Quick Release Buckle and Postman's Slide	C893P			
Tab, Retaining, Replacement, Defender, 660/664	10096795			
Tab, Retaining, Replacement, Defender, HP3	10096796			

Assemble-to-Order Matrix

Assemble-to-order Matrix																	
Model		Color		Eye Protection		Headband Liners		Earlap		Chinstrap		Trim Type		Trim Color		Trim Shape	
1 990 Intrud 2 660C Met 5 HP3 Command 6 360 Struct 7 360 Struct Without E Bead Invader 6 B Rescue 3 C Rescue 3 360R-13 D 660C Met Defender E Invader 6 Defender HP3 Comman Defender	o ural ural dge 64 00R+	2 3 4 5 6	Black Red Blue‡ White Yellow Orange‡ Green†‡	1 2 3 4 5 6 7 8 9 A B	None* 4" Tuffshield Cairns ESS Goggles Cairns Goggles ESS Innerzone 3 Goggles ESS Innerzone 2 Goggles ESS Innerzone 1 Goggles 4" Standard Faceshield 6" Standard Faceshield 4" Gold-Coated Faceshield** 6" Gold-Coated Faceshield ESS Striketeam XTO Goggle** Defender Visor, Clear* Defender Visor, Amber Tuffshield*	2	Economy Flannel Standard Flannel Deluxe Leather with Crown Pad	1 2 3 4 5 6 7 9	None Yellow Nomex Yellow Nomex with Underchin Extension PBI/Kevlar PBI/Kevlar with Underchin Extension Bloodborne Pathogen Resistant Yellow Nomex Winter Hood PBI Winter Hood CFR Aluminized Bonnet with PBI/Kevlar Shroud & Nomex Earlap Black Nomex	3 4	Nomex with Quick Release Nomex with Quick Release & Postman's Slide 3" longer Nomex with Quick Release & Postman's Slide (360 Only) Nomex with Postman's Slide (Not available on HP3) 6" longer Nomex with Postman's Slide 3-Point with Quick Release (HP3 only)	2	None* Reflexite (Standard) Scotchlite	0 1 2 3 4	Standard Lime/Yellow Red/Orange* Blue* (Reflexite only) White*	0 1 2* 3* 4*	Standard Tetrabar Bar Diamond Triple Trim (Scotch- lite only)

- Not NFPA approved Not available on Invader 664
- † Not available on Invaue. **

 ** Available only on 360 and HP3



- Not all colors available in all types and shapes
- Rescue 360R not available with faceshield
- Must specify Defender Visor in both model & eye protection sections



Visor stowed



Visor deployed



Four available visor shades

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and

understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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