

VIKING 1840 DIGITAL SERIES

Auto-Darkening Welding Helmets



All American®
K3173-4



Aztec®
K4175-4



Shown:
Black K3023-4

KEY FEATURES

The VIKING™ 1840 Series, our mid-range auto-darkening helmet tier, offers superior 4C® optics with a versatile user interface and premium external controls to increase productivity.

Industry Leading Optics

- Exclusive 4C® Lens Technology
- 1/1/1 Optical Clarity

Digital User Interface

- Moisture and abrasion resistant push button LED IU controls
- Simple, intuitive adjustments for precise and consistent performance

All Day Comfort

- Custom headgear features soft, padded headband to help eliminate pressure points, while top head straps evenly distribute weight

Versatility

- Low profile external grind control
- Expanded 7 - 13 Shade Range

Process »
Stick, TIG, Pulsed TIG, MIG, Pulsed
MIG, Flux-Cored, Gouging, Grinding



Meets: ANSI Z87.1 & CSA Z94.3

4C LENS TECHNOLOGY

Lincoln Electric's proprietary liquid crystal display (LCD) enhances the visible color spectrum of the display. Unlike traditional auto-darkening filters, 4C lens technology broadens the color range & hues which can be seen in both light and dark states. This eliminates imperfections and color saturation to create the clearest view of the base material, arc & puddle, while reducing eye strain.



1/1/1 OPTICAL CLARITY

Eliminating Distortion

Removing Blurriness

Uniform Shade

Consistent Angle Performance

Consistent Shade at all Angles

DIGITAL USER INTERFACE

Easy to Adjust Shade, Sensitivity and Delay Digital Controls

Moisture and abrasion resistant push button LED IU controls

Low to High Visual LED Display [Green = Shade, Orange = Sensitivity/Delay]

Red Low Battery LED Light

TEST button to check auto-darkening lens function

MODE Large mode control to cycle through settings

SHADE Adjust Lens Shade from 7 to 13

SENS 7 Levels of Arc Sensor Sensitivity

DELAY 7 Levels of Lens Arc Delay

4-POINT PIVOT HEADGEAR

Superior Comfort

1. Two adjustable top head supports distribute weight and improve balance
2. Orientation adjustment pin for optimal resting position
3. Soft front headband reduces pressure and absorbs moisture
4. Polymer backpad increases comfort and stabilizes helmet position
5. Simple ratchet tightening mechanism for comfortable, secure fit



EXTERNAL LOW PROFILE GRIND CONTROL

Switching Modes Made Easy

The left side of the helmet features an industrial button which connects to the auto darkening lens. Press and hold for 3 seconds to switch between weld and grind modes.

Benefits:

- Increases productivity
- Prevents accidental activation
- Enhanced application versatility



ADDITIONAL FEATURES

Hard Hat Compatible



Enhanced Outdoor Performance



Cheater Lens Compatible



REPLACEMENT PARTS

Part Number	Description	Product Type
KP3043-1	Outside Cover Lens - 1840 & 1740 Series	Cover Lenses
KP2897-1	Inside Cover Lens - 1840 Series	
S27978-58	Gasket - Outside Cover Lens Seal - 3350 & 2450 Series	
KP4627-1	Bulk Outside Cover Lens – 1840 & 1740 Series	
KP2930-1	Sweatband - Super Soft Knit Cotton	Sweatband & Headgear
KP4470-1	X6 Headgear	
K3908-1	Pivot Headgear	
K4100-1	Traditional Headgear	
KP3047-1	Hard Hat Adapter - Halo Style	Hard Hat Adapters
KP3486-1	Hard Hat Adapter - Slotted Style	
KP3046-XXX	Magnifying Cheater Lenses - 1.00 MAG - 2.50 MAG	Cheater Lenses
KP2853-4	ADF Cartridge - 1840 Digital Series	Auto-Darkening Filter & Parts
KP4562-1	Grind Button Assembly	
KP4491-1	CR 2450 Battery	
S27978-55	ADF Cartridge Holder	
KP4802-2	Glossy Black 1840 Replacement Shell	
		Replacement Shells

PRODUCT SPECIFICATIONS

Product Name	Lens Switching Speed (sec)	Variable Shade/Control	Battery Replacement Type	Magnifying "Cheater" Capable Lens	Grind Mode Shade/Control	Light Sensitivity Control	Delay Control Dark to Light (sec)	Arc Sensors	TIG Amp Rating	Cartridge/View Size in. (mm)	Temperature Range	Weight oz. (g)
VIKING 1840 Digital	1/25,000	7-13 Internal	CR2450 Replaceable Battery	Yes	3.5 / External	7 Sensitivity Settings	0.15 - 1.0 0.15 Sec Increments	4	DC > 2 Amp AC > 5 Amp	Cartridge US: US 5.25 x 4.50 (133 x 114) View: 3.78 x 1.85 (96 x 47)	Operating: -10°C - +55°C (14°F - 131°F) Storage: -20°C - +70°C (-4°F - 158°F)	19.5 (553)

CUSTOMER ASSISTANCE POLICY

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