VIKING™ Auto-Darkening Welding Helmets

Processes
Stick, TIG, Pulsed TIG, MIG, Pulsed MIG, Flux-Cored, Gouging, Grinding

Product Number
See pg 2 - 5 for all models
See back for complete specs

FEATURES
- Continuously variable control – For shade and sensitivity.
  • Shade control.
    - 1740 9-13 Shade Internal Control
    - 1840 9-13 Shade External Control
    - 2450 9-13 Shade Internal Control
    - 3350 6-13 Series Internal Control
  • Sensitivity – Adjustable for different welding environments.
  • Delay – Adjustable from dark back to light state.
- Light weight –
  - 1740 Black - 18.6 oz (528 g)
  - 1840 Black - 18 oz (510 g)
  - 2450 Black - 20 oz (567 g)
  - 3350 Black - 20 oz (567 g)
- Grind mode – Great for weld prep or post-weld clean up activities.
- Magnifying ‘cheater’ lens capable
- Hard hat adapter capable
- What's Included
  - Extra Cover Lenses Enclosed (2) inside and (5) outside.
  - Replaceable lithium batteries.
  - 2450 - Qty 2, 3350 - Qty 1.
  - 1840, 2450 and 3350 also include:
    - Bandana.
    - Helmet Sport-Pak bag.

Viewing Area
1740 Series: 3.78 x 1.67 in. (96 x 42.5 mm)
1840 Series: 3.78 x 1.85 in. (96 x 47 mm)
2450 Series: 3.82 x 2.44 in. (97 x 62 mm)
3350 Series: 3.74 x 3.34 in. (96 x 85 mm)

Variable Shades
1740/1840/2450 Series: DIN 9-13,
3350 Series: DIN 6-13

Light State/Grind Mode
DIN 3.5

TIG Amp Rating
1740 Series: >5 Amp AC/DC
1840/2450 Series: DC>3 Amp; AC>5 Amp
3350 Series: DC> 2 Amp, AC>4 Amp

Power Supply
1740/1840 Series: Solar Powered w/ Battery Assist
2450/3350 Series: Solar Cells w/ Replaceable Lithium Batteries
Rigid Protective Cartridge Frame Holder – Securely locks cartridge into place (not shown).

Four Independent Arc Sensors – Helps avoid blind spots that prevent auto-darkening.

33 50 Series –
- 50 designates 4.50 x 5.25 in. cartridge compatible shell.
- 3.34 in. height of viewing area.

Solar-Powered – With user replaceable battery. One CR2450 lithium battery required (included with helmet). No on/off switch to remember.

Shade Range Switch – Toggle between 6-9 or 9-13.

Substantial View Size – 3.74 x 3.34 in. (95 x 85 mm)

Magnifying ‘Cheater’ Lens Capable – Easy to add Lincoln Electric lenses. See back page for details.

Top Quality LCD Optics – Deliver a clear, natural view.

Meets ANSI, CAN/CSA and CE Requirements – 3rd party testing of cartridge design.

Continuously Variable Delay – 0.1 – 1.0 sec.

Continuously Variable Sensitivity – For use in different ambient light welding environments.

Internal Grind Mode – Use helmet as a grinding shield.

Battery/Shade Test Control – Pre-test helmet shade before welding.

Battery Compartment (CR 2450 lithium battery required Qty – 1)

Low Battery Indicator Light

Internal Variable Shade Control – For shade 6-9 or 9-13 based on shade range selected.
4.50 X 5.25 in. (114 X 133 mm) CARTRIDGE

- Solar-Powered – With user replaceable batteries. Two CR2450 lithium batteries required (included with helmet). No on/off switch to remember.
- Rigid Protective Cartridge Frame Holder – Securely locks cartridge into place (not shown).
- Four Independent Arc Sensors – Helps avoid blind spots that prevent auto-darkening.
- 24 50 Series – 50 designates 4.50 x 5.25 in. cartridge compatible shell. 2.44 in. height of viewing area.

- Low Battery Indicator Light
- Continuously Variable Delay – 0.1 – 1.0 sec.
- Continuously Variable Sensitivity – For use in different ambient light welding environments.
- Internal Grind Mode – Use helmet as a grinding shield.
- Substantial View Size – 3.82 x 2.44 in. (97 x 62 mm)
- Magnifying ‘Cheater’ Lens Capable – Easy to add Lincoln Electric lenses. See back page for details.
- Top Quality LCD Optics – Deliver a clear, natural view.
- Meets ANSI, CAN/CSA and CE Requirements – 3rd party testing of cartridge design.
- Battery Compartments (CR 2450 lithium batteries required Qty – 2)
VIKING™ Welding Helmets

Continuously Variable Delay – 0.1 – 1.0 sec.
Continuously Variable Sensitivity – For use in different ambient light welding environments.
Substantial View Size – 3.78 x 1.85 in. (96 x 47 mm)
Magnifying ‘Cheater’ Lens Capable – Easy to add Lincoln Electric lenses. See back page for details.
Top Quality LCD Optics – Deliver a clear, natural view.
Meets ANSI, CAN/CSA and CE Requirements – 3rd party testing of cartridge design.

Two Independent Arc Sensors – Helps avoid blind spots that prevent auto-darkening.
Solar-Powered – With battery assist. No on/off switch to remember.
External Grind Mode – Use helmet as a grinding shield.
18 40 Series – 40 designates 90 x 110 mm cartridge compatible shell. 1.85 in. height of viewing area.

110 X 90 mm (4.33 X 3.54 in.) CARTRIDGE

1840 Black K3023-1
Tribal® K3024-1
Cruzin Sticks™ K3025-1
1840 All American® K3173-1

Jessi Combs Amp Angel®
Designed specifically for female welders.

Jessi Combs Amp Angel® K3027-1

1840 Black K3023-1
Tribal® K3024-1
Cruzin Sticks™ K3025-1
1840 All American® K3173-1

Jessi Combs Amp Angel®
Designed specifically for female welders.
1740 SERIES

1740 Black™
K3282-1

110 X 90 mm (4.33 X 3.54 in.) CARTRIDGE

Two Independent Arc Sensors – Helps avoid blind spots that prevent auto-darkening.

Solar-Powered – With user replaceable batteries. Two AAA Alkaline batteries required (included with helmet). No on/off switch to remember.

1740 Series – 40 designates 110 x 90 mm cartridge compatible shell. 1.67 in. height of viewing area.

Continuously Variable Sensitivity – For use in different ambient light welding environments.


Battery Compartment (AAA Alkaline batteries required Qty – 2)

Continuously Variable Delay – 0.1 – 1.0 sec.

Low Battery Indicator Light

Internal Grind Mode – Use helmet as a grinding shield.

View Size – 3.78 x 1.67 in. (96 x 42.5 mm)

Magnifying ‘Cheater’ Lens Capable – Easy to add Lincoln Electric lenses. See back page for details.

Top Quality LCD Optics – Deliver a clear, natural view.

Meets ANSI, CAN/CSA and CE Requirements – 3rd party testing of cartridge design.
## Replacement Parts

<table>
<thead>
<tr>
<th>Sales Number</th>
<th>Description</th>
<th>Dimensions</th>
<th>Package Qty.</th>
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<td>1740 ADF CARTRIDGE</td>
<td>DIN 110 x 90</td>
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<td>KP2953-1</td>
<td>700G/1740 ADF CARTRIDGE</td>
<td>DIN 110 x 90</td>
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<td>KP2932-1</td>
<td>2450 SERIES ADF CARTRIDGE</td>
<td>STD 4 x 5</td>
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<td>KP3045-1</td>
<td>3350 SERIES ADF CARTRIDGE</td>
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## Product Specifications

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<tr>
<th>Series</th>
<th>Lens Switching Speed (sec)</th>
<th>Variable Shade/ Control</th>
<th>Magnifying &quot;Cheater&quot; Capable Lens</th>
<th>Grind Mode Shade/ Control</th>
<th>Light Sensitivity Control</th>
<th>Delay Control Arc Dark to Light (sec)</th>
<th>Arc Sensors</th>
<th>TIG Amp Rating</th>
<th>Cartridge Size in. (mm)</th>
<th>View Size in. (mm)</th>
<th>Temperature Range</th>
<th>Weight oz. (g)</th>
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<td><strong>VIKING™</strong></td>
<td>1/25,000</td>
<td>9-13 / Internal</td>
<td>Yes</td>
<td>4 / Internal</td>
<td>Continuous</td>
<td>0.1 - 1.0 Fully Adjustable</td>
<td>2</td>
<td>&gt; 5 Amp AC/DC</td>
<td>DIN 433 x 3.54 (110 x 90)</td>
<td>3.76 x 1.67 (96 x 42.5)</td>
<td>Operating: -10ºC - +55ºC (14ºF - 131ºF)</td>
<td>18.6 (528)</td>
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<td><strong>1740</strong></td>
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<td>Storage: -20ºC - +70ºC (-4ºF - 158ºF)</td>
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www.lincolnelectric.com/helmets

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