

VIKING™ Auto-Darkening Welding Helmets

VIKING™
WELDING HELMETS

Processes

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

Product Number

See below for all models

See page 4 for complete specs

Viewing Area

1840: 3.78 x 1.85 in (96 x 47 mm)

2450: 3.82 x 2.44 in (97 x 62 mm)

Variable Shades

DIN 9-13

Light to Dark Switching

1/25,000 sec.

Arc Sensors

1840: 2, 2450: 4

Light State/Grind Mode

DIN 3.5

TIG Amp Rating

1840: ≥5 Amp

2450: ≥3 Amp DC; ≥5 Amp AC

Power Supply

1840: Solar Powered w/ Battery Assist

2450: Solar Cells w/ Replaceable Lithium Batteries

Rugged. Light Weight. Feature-packed.

VIKING™ solar-powered auto-darkening helmets are loaded with features, built to demanding specs and packaged with a host of accessories.

FEATURES

- ▶ **Continuously variable control** – For shade and sensitivity.
 - 9-13 shade control.
 - 1840 External
 - 2450 Internal
 - Sensitivity – Adjustable for different welding environments.
 - Delay – Adjustable from dark back to light state.
- ▶ **Light weight** –
 - 1840 - 18 oz (534 g)
 - 2450 - 20 oz (588 g)
- ▶ **Grind mode** – Great for weld prep or post-weld clean up activities.
- ▶ **Magnifying 'cheater' lens capable**
- ▶ **Hard hat adapter capable**
- ▶ **Extra Cover Lenses Enclosed** - (2) inside and (5) outside.

1840 SERIES



1840 Black
K3023-1

Tribal™
K3024-1

Cruzin Sticks™
K3025-1

1840 Patriot™
K3026-1

Amp Angel™
K3027-1

2450 SERIES



2450 Black
K3028-1

Heavy Metal™
K3029-1

Street Rod™
K3035-1

2450 Patriot™
K3032-1

Hemisfear™
K3030-1



Solar Powered with
Battery Assist

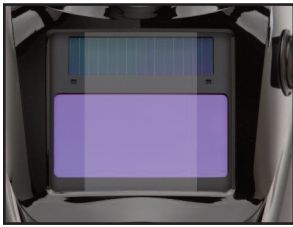


THE LINCOLN ELECTRIC COMPANY

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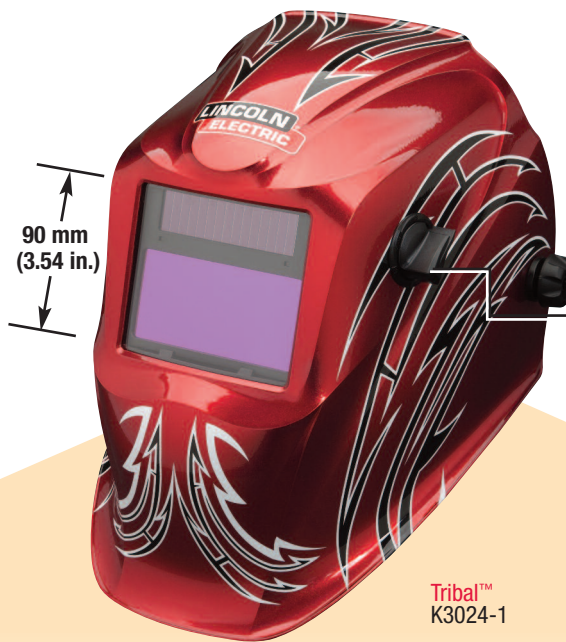
LINCOLN®
ELECTRIC
THE WELDING EXPERTS™

1840 SERIES



Compact DINS Cartridge Size

- 114 x 90 mm (4.33 x 3.54 in.) cartridge dimensions
- 2 arc sensors



Tribal™
K3024-1



External 9-13 Shade Control

- External grind mode control
- Internal variable sensitivity and delay control

SHARED FEATURES



Lightweight, Full Coverage Shell

- Sheds spatter and resists impact. Meets ANSI Z87.1, CAN/CSA Z94.3 and CE certification.



Magnifying 'Cheater' Lens Capable

- For weld puddle clarity



Hard Hat Adapter Capable

- For most hard hat models
- Order KP3047-1



Headgear

- Secure up stop keeps helmet up when not welding
- Fore/Aft adjustment for distance from face
- Soft absorbent sweat band

2450 SERIES



Standard U.S. Cartridge Size

- 5.25 x 4.5 in. (133 x 114 mm) cartridge and replacement cover lens dimensions
- 4 arc sensors



Street Rod™
K3035-1

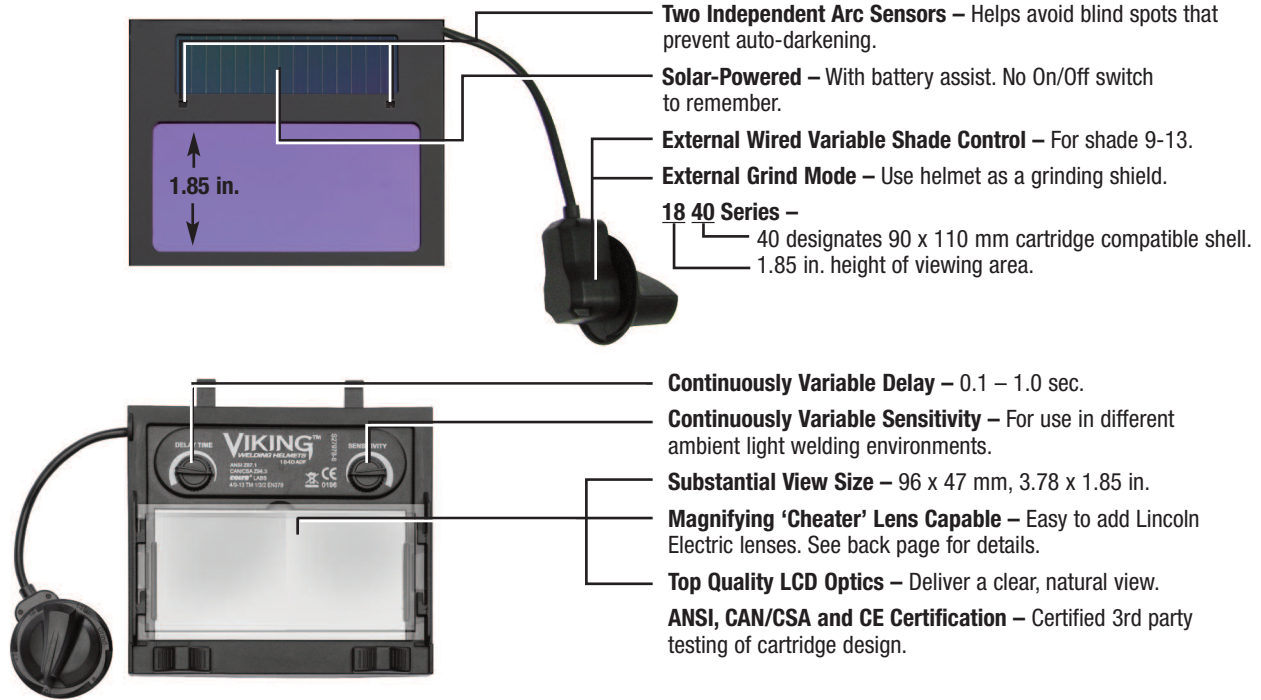


Internal 9-13 Shade Control

- Internal grind mode control
- Internal variable sensitivity and delay control

1840 SERIES

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 battery assist. No On/Off switch to remember.

External Wired Variable Shade Control – For shade 9-13.

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.

Continuously Variable Delay – 0.1 – 1.0 sec.

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

Substantial View Size – 96 x 47 mm, 3.78 x 1.85 in.

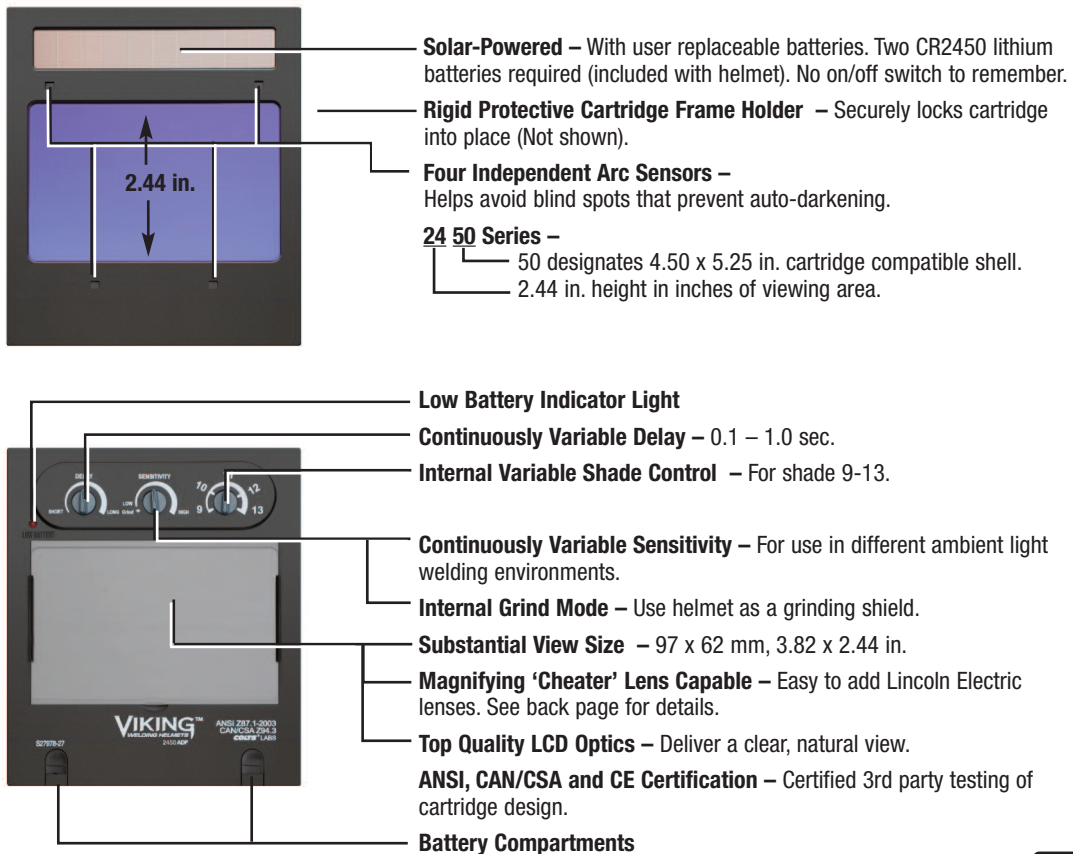
Magnifying ‘Cheater’ Lens Capable – Easy to add Lincoln Electric lenses. See back page for details.

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

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

2450 SERIES

4.50 X 5.25 in. (133 x 114 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 in inches of viewing area.

Low Battery Indicator Light

Continuously Variable Delay – 0.1 – 1.0 sec.

Internal Variable Shade Control – For shade 9-13.

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

Internal Grind Mode – Use helmet as a grinding shield.

Substantial View Size – 97 x 62 mm, 3.82 x 2.44 in.

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

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

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

Battery Compartments



New Amp Angel™ (K3027-1)
Design intended specifically for female welders.

Great Bonus Items!



1840 Series Sport-Pak helmet bag includes Tribal™ bandana.



2450 Series Sport-Pak helmet bag includes Foose® bandana.



In addition to a Sport-Pak, the 1840 Black and 2450 Black Series Helmets include a Decal Sheet. Design your own helmet!

REPLACEMENT PARTS

| Part Number | Description | Dimensions | Package Qty. | Helmet Series Compatibility | | | |
|-------------|---------------------------|---|--------------|-----------------------------|------|------|------|
| | | | | 1840 | 2450 | 700G | 750S |
| KP2913-1 | OUTSIDE CLEAR COVER LENS | 112 x 91.3 x 1.5mm (4.41 x 3.59 x .06 in.) | 5 | | | • | |
| KP2899-1 | 750S SERIES ADF CARTRIDGE | STD 4 X 5 | 1 | | | | • |
| KP2931-1 | INSIDE CLEAR COVER LENS | 98.5 x 66.5 x 1.0mm (3.88 x 2.62 x .04 in.) | 5 | | • | | |
| KP2898-1 | OUTSIDE CLEAR COVER LENS | 114 x 133 x 1.0 mm (4.5 x 5.25 x .04 in.) | 5 | | • | | • |
| KP2897-1 | INSIDE CLEAR COVER LENS | 96 x 51.6 x 1.0 mm (3.78 x 2.03 x .04 in.) | 5 | • | | | • |
| KP3043-1 | OUTSIDE CLEAR COVER LENS | 114 x 100 x 1.0 mm (4.5 x 3.94 x .04 in.) | 5 | • | | | • |
| KP2853-1 | 700G/1840 ADF CARTRIDGE | DINS 110 X 90 | 1 | • | | • | |
| KP2932-1 | 2450 SERIES ADF CARTRIDGE | STD 4 X 5 | 1 | • | | | |
| KP2929-1 | HEADGEAR W/SWEATBAND | N/A | 1 | • | • | | |
| KP2930-1 | SWEATBAND | N/A | 2 | • | • | • | • |
| KP2851-1 | HEADGEAR W/SWEATBAND | N/A | 1 | | | • | • |
| KP2854-1 | SWEATBAND | N/A | 2 | | | • | • |
| KP3047-1 | HARD HAT ADAPTER | N/A | 1 | • | • | | |

PRODUCT SPECIFICATIONS

| Series | Lens Switching Speed (sec) | Variable Shade/Control | Magnifying "Cheat" Capable Lens | Grind Mode Shade/Control | Light Sensitivity Control | Delay Control Dark to Light (sec) | Arc Sensors | TIG Amp Rating | Cartridge Size in. (mm) | View Size in. (mm) | Temperature Range | Weight oz. (g) |
|--------------|----------------------------|------------------------|---------------------------------|--------------------------|---------------------------|-----------------------------------|-------------|--------------------------|-----------------------------|-----------------------|---|----------------|
| VIKING™ 1840 | 1/25,000 | 9-13 / External | Yes | 3.5 / External | Continuous | 0.10 - 1.0 Fully Adjustable | 2 | ≥ 5 Amp AC/DC | DINS 4.33 x 3.54 (110 x 90) | 3.78 x 1.85 (96 x 47) | Operating: -10°C - +55°C (14°F - 131°F) | 18 (534) |
| VIKING™ 2450 | | 9-13 / Internal | | 3.5 / Internal | | | 4 | ≥ 3 Amp DC ≥ 5 Amp AC | US 5.25 x 4.50 (133 x 114) | 3.82 x 2.44 (97 x 62) | Storage: -20°C - +70°C (-4°F - 158°F) | 20 (538) |

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