



MASTR | LASER WELDING HELMET

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The Univet "MASTR" laser welding helmet is specifically designed to protect against the scattered and diffused light generated during welding processes performed with hand-held laser systems emitting in the near infrared.

This complete solution is a union of a helmet shell made in a special compound material, a laser protective filter and a welding auto darkening filter. It is able to shield the eye and the face of the user from diffused laser light and from optical radiations generated during the welding process



- Designed for hand-held laser welding systems
- Extended protection for both eyes and face
- Shell entirely made in a special plastic compound, able to resist against laser radiation*
- Laser protective filter with wide absorption range, which guarantees the visibility of major laser aiming beams (630-670nm)
- Auto-darkening welding filter (ADF) with digital controls and shade '3' light state
- Weight 700g for maximum comfort during long-term use
- Regulation system to adjust helmet height and inclination. Fully adjustable headgear



**Protection against
Class 4 laser**



**Comfortable and
adjustable helmet**



**Complete protection
against laser and UV-IR**

*Protection levels according European standard EN207 are reported in the technical specification table

SPECIFICATIONS TABLE

HELMET

| | | |
|---|---|--|
| Material Special plastic compound | Fully adjustable headgear Yes | Replaceable front shield Yes |
|---|---|--|

ADF - AUTO DARKENING FILTER

| | | |
|---|---------------------------------|--|
| Filter dimensions 110 x 90 x 9 mm | View area 100 x 53 mm | CE classification W3 / 4-8 / 9-13 V2 |
|---|---------------------------------|--|

| | | |
|---------------------|--|--|
| Sensors 4 | Light shade number 3 ^(*) 4 when laser filter is mounted | Dark shade number Variable, 4-8 / 9-13 |
|---------------------|--|--|

| | | |
|---------------------------------|--------------------------------|---------------------------------------|
| Shade control Digital | Switching time 40 µs | Sensitivity control Digital |
|---------------------------------|--------------------------------|---------------------------------------|

| | | |
|---|---------------------------------|-------------------------------------|
| Delay time control Digital. Adjustable 0.04-2 s | Grinding function Yes | Low battery indicator Yes |
|---|---------------------------------|-------------------------------------|

Power supply

Solar cell, Replaceable battery
(CR2032, 1 pc)

CE MARKING - EN166, EN175, ISO 16321-2

| | | |
|------------------------------------|--------------------------------|---|
| Helmet U EN175 F 500g CE | Front shield U FT CE | Auto darkening filter 16321 U W3 / 4-8 / 9-13 V2 CE |
|------------------------------------|--------------------------------|---|

ANSI Z87.1 MARKING

| | | |
|-------------------------|------------------------------|---|
| Helmet U Z87+ | Front shield U Z87 | Auto darkening filter U Z87 W3 / 4-8 / 9-13 |
|-------------------------|------------------------------|---|

CSA Z94.3 MARKING

| | | |
|--------------------------|--------------------------------|--|
| Helmet U Z94.3 | Front shield U Z94.3 | Auto darkening filter U Z94.3 3 / 4-8 / 9-13 |
|--------------------------|--------------------------------|--|

EN207 MARKING

Complete device

840-1250 DIR LB4

870-1190 DIR LB5

890-1160 DIR LB6

915-1140 D LB6 IR LB7 U CE

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