



Auto Darkening Welding Helmets Basic Terms and Definitions

By [Jason Miller](#)

Auto Darkening Welding Helmets are the best welding helmets to protect a welder's eye from flash damage in welding applications. Auto Darkening welding helmet filters offer the same level of protection as a standard welding helmet filter. Auto darkening filters detect the flash of the arc and darken so fast the eye cannot detect it. Remember welder's flash is the cause of 6% of construction related injuries and purchasing a good auto darkening welding helmet will go a long way to prevent needless injuries. Remember an auto darkening filter still protects your eyes from UV and IR light even when it is not darkened.

Here are some common terms and definitions to help you decide which features you want in an auto darkening welding helmet:

Delay Adjustment: allows user to adjust the amount of time before the lens transitions back to light state

Sensitivity Adjustment: allows user to fine tune unit depending on ambient light or arc intensity; allows low amp, DC TIG welding other units cannot do

Solar Battery Life Extender: extends welding hours; solar cell increases economical operation- decreases battery replacement cost and downtime

Intellisense: allows unit to detect welds less than 5 amps

3N1: 3 modes of operation grind (clear state), weld (shade 8.5-12.5) and oxyfuel gas cutting (shade 5); one hood for every welding process.

HTLS Lightstate: shade 3.75 clear state, the clearest PI filter available; allows good color and visibility for hood down set up in low ambient light settings

Independent Redundant Sensors: if one sensor is blocked or damaged, the unit's performance will not be damaged; enables welder to work in tight areas.

Auto Off: manually shut down unit when not in use, or automatic shut-off after 20 minutes non-use; maximizes battery life.

ClimaSensor Technology: tests the ambient air temperature three times per minute and automatically adjusts to ensure true shade when welding

EMI Coating: special coating designed to shield and protect electronics against extreme electromagnetic interference.

Jason has been in the construction equipment and industrial sales business for over 10 years. He owns and operates Red Hill Supply to better serve the automotive and industrial industries. - Automotive Tools at: <http://www.redhillsupply.com/>

*This book may be given to a third person as a gift but cannot be modified in any manner.
This rule have been established to protect the rights and ownership of the authors and to ensure that their work is upheld as their own*