

# The Top-Of-The-Line 3M™ Speedglas™ Filter and Helmet

## The 3M™ Speedglas™ Filter and Helmet 9002X

An X-tra large viewing area is combined with advanced electronics to deliver the most versatile auto-darkening welding filter ever! For welders handling a variety of amperages and different arc welding processes, this is the best!

The Speedglas filter and helmet 9002X has a big 4.09" x 2.13" viewing area, with clear, sharp optics and consistent shading across the entire viewing area.

A solar panel on the front of the filter cassette helps to power the unit, extending battery life to approximately 3000 hours.

Choose from 61 control combinations to guarantee the most efficiency and comfort... no matter what you are welding.

### Greater Sensitivity

The 9002's newly-developed detectors increase sensitivity to provide reliable switching for a wide range of welding methods, even extremely stable arcs like those from low amp TIG inverters.

### Greater Comfort

The 9002 introduces a new Delay function that lets you decide how quickly the filter changes from dark-to-light.

### Examples of New Delay Function:

You are doing high amp welding on stainless, creating an extremely bright weld pool. When you stop for a second to reposition the electrode you don't want to immediately see the brilliant glowing light from the hot weld pool, so you set Delay to "+" to add time before the lens switches from dark to light.

You are quickly making a series of tack welds. You want to be able to rapidly check each weld before moving to the next position, so you set Delay to "-" to reduce the time for dark-to-light switching.

### Examples of Improved Sensitivity Function

You are welding pipe or tube with partially obscured arcs. (Or your hands are partially blocking the arc.) By selecting greater Sensitivity, you can get reliable darkening even with hidden areas.

You are using a new TIG inverter with settings as low as 1 amp and virtually flat frequency. Select a greater Sensitivity and the 9002's photosensors will sense the arc for reliable auto-darkening.

### Choose from 3 Delay Settings...

to match how quickly the filter changes from dark-to-light to the job. (Filter always provides full UV/IR protection.)

Filter Shade	"-" Setting	Normal Setting*	"+" Setting
9	60	100	150
10	60	150	200
11	100	200	300
12	100	250	400
13	100	300	500

\* All speeds in milliseconds

### Choose from 4 Sensitivity Settings...

to match the filters' sensitivity to the job.

Situation	Sensitivity Setting
Two welders, working nearby	1
MIG/MAG welding	2
Low amp TIG welding	3
Hidden arc TIG tube welding	4
Grinding	1 or 2

### Choose from 5 Shade Settings...

to match the filter's shade to the type of welding.

### Adjust With Gloves On

The 9002's new membrane-covered control buttons let you change settings or turn on/off with your gloves on. The membrane seals the filter from dirt. Much faster than analog knobs, too.



## 3M™ Speedglas™ Filter and Helmet 9002X Specifications

- Light Shade: 3
- Dark Shades: user-adjustable to 9, 10, 11, 12 and 13
- Off (Fail-Safe) Shade: nominal 5
- Viewing Area: 4.09" x 2.13" (104mm x 54mm)
- Weight, Helmet with Filter: 17.4oz. (493g)
- Battery Life (Average): 3000 hours
- Operating Temperature: 23° to 131°F (-5° to 55°C)
- Standards/Approvals: ANSI Z87.1-2003

### Ordering Information

Part Numbers for complete package: helmet, headband and auto-darkening filter: 04-0012-21

Add "H" for hard hat and/or "SW" for [SideWindows](#).

Click here to view [Accessories](#) for Speedglas helmet 9002 models.

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