TECMEN



iExp Series

AUTO-DARKNING WELDING HELMET

Super wide viewing area with side lens

The 900 Series Auto-Darkening Filters (ADF) feature a new-generation auto-adjustment function, enabling them to perfectly match the welding arc's intensity. 900T-G ADF offers 2 screen tones for versatility. 900D-G can store up to 3 sets of configurations for quick access. Ultra-wide vision and multiple modes ensure efficient, seamless welding.



Dark Mode | Extended Shade Range | Memory Mode | Shade Number Smart-adjustment | Mix Mode | Dual-color Function | Side Lens



900

Ultra-wide field of view

107x75 mm, get a better look at the weld pool with a wider field of view, and achieve pinpoint precision in your welding.

High compatibility

Can be integrated with other TECMEN PAPR products to create a complete and efficient personal protective system. Greater compatibility and flexibility.



External grinding control

Allows for quick switching between welding and grinding modes without lifting the welding helmet.

Patented headgear design

Premium adjustable pivot headgear design, well-balanced and maximum comfortable feelings, lock functions in upright state. Viewing angle and distance both adjustable without taking off the helmet.

Side lens

Shade 5 side lens on both sides, maximizing the welder's field of view. Enhance surrounding vision, minimize workplace hazard.

ADF FUNCTION

	950T-G 	950D-G 
Dark Mode	✓	✓
Shade Number Smart-adjustment	✓	✓
Mix Mode	✓	✓
Extended Shade Range	✗	✓
Memory Mode	✗	✓
Dual-color	✓	✗

Dark Mode

If you encounter demanding welding environments where arc detection is a challenge, consider switching to the DARK mode where the ADF funtions as a shade glass.



Narrow spaces where the arc sensors are partly covered



Extremely weak arc which is difficult to detect



Multiple welders operating nearby

Adjust the sensitivity to level 10 to activate the DARK mode. When the auto-darkening filter is set to DARK mode, it functions solely as a dark glass and does not provide auto-darkening. The shade number in DARK mode can be selected based on your specific configuration.



DARK SHADE
Shade 9-15

* Available on 950T-G / 950D-G

Shade Number Smart-adjustment

Say goodbye to manual shade number settings!
The ADF will automatically adjust its shade number in real-time, based on the welding electric current during your welding process. Make your welding safer, faster, and more focused.



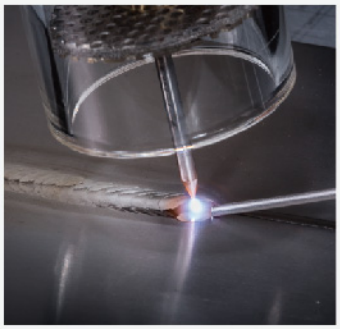
* Available on 950T-G / 950D-G

Mix Mode

Tack welding can trigger frequent auto-darkening and lightening in the regular welding mode which may tire your eyes. Also, with high-current welding , sometimes the welding arc doesn't stop immediately when you stop welding, and this can still harm your eyes.

In these situations, the usual auto-darkening isn't enough to protect your eyes. That's where our MIX mode comes in. It lets the ADF smoothly transition from dark to light, helping reduce eye fatigue caused by sudden changes in brightness.

* Available on 950T-G / 950D-G

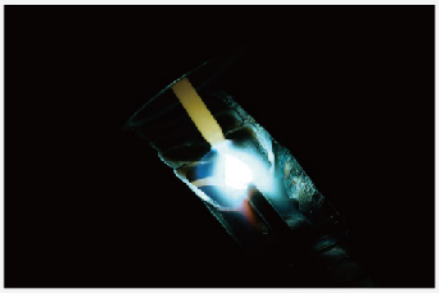


Extended Shade Range

Dark state DIN14/15

If high-current welding is causing eye fatigue, simply set the shade number to shade 14 or shade 15 on the backlit digital screen. The ultra-dark shade will provide perfect protection for your eyes against strong welding arcs.

* Available on 950D-G



Memory Mode

Save up to 3 sets of your preferred configurations under memory mode, and load the presets before work to reduce time wasted on manual configuration.

The memory mode also enables multiple users to save their specific settings individually.

* Available on 950D-G

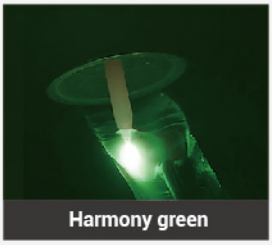


Dual-color Function

Empowered by our brand-new color adjustment technology, the 950T-G ADF introduces a unique feature: the choice between a whitish or greenish screen tone in welding mode. This customization caters to your preferences, welding technique, and material. Selecting a comfortable tone enhances focus on your workpiece and enables clear observation of weld seams, all while reducing eye fatigue.




True tint


Harmony green

* Available on 950T-G



Viewing Area with Side Windows

Side lenses expand your field of vision, enabling you to see your workpiece and surroundings simultaneously, without the need to turn your head as much to see outside your welding area.This improves the accuracy and precision of your welding, while keeping you aware of potential hazards and obstacles.



Side window covers available
Side window covers can be installed if you do not need this function.

Specifications





MODEL	950T-G	950D-G
Optical Class	1 / 1 / 1 / 2	1 / 1 / 1 / 1
Viewing Area	930T-G: 107 x 55 mm (4.21" x 2.17") 950T-G: 107 x 75 mm (4.21" x 2.95")	930D-G: 107 x 55 mm (4.21" x 2.17") 950D-G: 107 x 75 mm (4.21" x 2.95")
Cartridge Size	156 x 123 x 33 mm (6.14" x 4.84" x 1.30")	
Arc Sensor	4 + 2	
Light State	DIN 3.0	
Dark State	DIN 5-8 / 9-13	DIN 5-8 / 9-15
Shade Control	Internal, Digital Display Control	
Power On / Off	Automatic On / Off	
Sensitivity Control	Low - High, Digital Display Control	
UV / IR Protection	Up to Shade DIN16 at all times	
Power Supply	Solar cell. Battery replaceable, 2 x CR2450 lithium battery	
Switching Time	1/25,000 s. from Light to Dark	
Delay (Dark to Light)	0.04 - 1.0 s, 11-level digital display control	
Low Amperage TIG Rated	≥ 2 amps (DC); ≥ 2 amps (AC)	
Grinding	Yes	
Battery Capacity Test	Yes	
Low Battery Indicator	Yes	
Dark Mode	Internal, digital display control	
Mix Mode	Internal, digital display control	
Memory Mode	——	Internal, digital display control
Daul-color Mode	Internal, digital display control	——
Operating Temp.	-10°C to 55°C (14°F to 131°F)	
Storing Temp.	-20°C to 70°C (- 4°F to 158°F)	
Helmet Material	High Impact Resistance Nylon	
Application Range	Stick Welding (SMAW); TIG DC&AC; TIG Pulse DC; TIG Pulse AC; MIG/MAG/CO2; MIG/MAG Pulse; Plasma Arc Cutting (PAC); Plasma Arc Welding (PAW); Air Carbon Arc Cutting (CAC-A); Oxyfuel Gas Welding (OFW); Oxygen Cutting (OC); Grinding	
Approved	CE, UKCA, ANSI, CSA, AS/NZS, EAC	

TECMEN

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