



VIZOR  Bluetooth
CONNECT

Vizor Connect

Unleash your welding potential

Welding safety as a complete system



0.00 second switching time

100% safety

Interference from external light, welding light reflections, welding in inaccessible positions — there are many factors that can significantly impair the reliability of fully automatic protective welding helmets. During a 6–8 hour day of welding, a welder will ignite the arc more than a hundred times. At every ignition, there is a split-second delay before a typical automatic autodarkening filter cartridge closes. Not so with the Vizor Connect.





Connection to the welding system



Autopilot



Panoramic view



Brightness level of 2.5

Bluetooth® Low Energy technology enables the welding helmet to be darkened by the welding system before the arc is even ignited. The auto-darkening filter cartridge remains reliably darkened even at extremely low currents and during out-of-position welding.

The autopilot adjusts the auto darkening filter cartridge automatically and regulates the level of protection according to the arc intensity.

The specially designed shape of the auto-darkening filter cartridge (nose cut) gives the wearer six times the field of vision of conventional welding helmets.

With a brightness level of 2.5 when open, the Vizor Connect is ideal for both pre-fabrication and rework tasks, eliminating the need to continually take the helmet on and off.

Increased comfort

increased safety

Power source and welding helmet

iWave
TPS/i

The two Bluetooth®-enabled Fronius welding systems can be used in combination with the Vizor Connect. Integrated welding systems are designed for maximum efficiency. The final link in the system is the Bluetooth® helmet.

By being integrated into the system, the Vizor Connect ensures

greater efficiency due to increased safety and comfort

Away from the welding process, the Vizor Connect ensures impressive visibility in terms of brightness and field of vision. The optimised glare protection also reduces eye strain. All of these factors help to improve concentration levels, resulting in better welding results and greater efficiency.

*Bluetooth® function only available in certified countries
TPS 320i C / TPS 320i / TPS 400i / TPS 500i / TPS 600i
from serial number 29200502 and 4,067,101 NFC/BLE/
WIFI24 Inside (firmware version 2.0.1) MW 230i / TT 230i
from series start (firmware version 1.5.0)



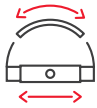
All the advantages of a conventional
welding helmet

As well as using the Bluetooth® connection, the Vizor Connect can also be used with all conventional arc welding systems. The helmet features all the usual functions of a high-quality automatic welding helmet and as such responds to optical pulses (sensor mode) when the Bluetooth® function is turned off. The auto-darkening filter cartridge closes as soon as the arc ignites.





Panoramic field of vision



Comfort headband



Patented eccentric



True colour

True-color view



Lithium polymer battery that can be charged via USB-C cable, supported by solar cells



Maximum protection

Vizion Connect





Connection to the Fronius welding system: 0.00 second delay time.



Autopilot



Much brighter view in light conditions



Levels of protection



Grinding mode



Twilight function



Sensitivity control in sensor mode



Start Bluetooth® mode by pressing the button on the side (blue LED flashes)



Select the menu item - Network - Bluetooth® - Device Configuration
The Vizor Connect is now shown in the list of available Bluetooth® devices



Select the Vizor Connect - then you will be asked whether you want to connect the device - confirm with yes



The Vizor Connect is now connected to the welding system (blue LED lights up continuously)

From helmet to safety system

in just a few steps

Battery supply

The auto-darkening filter cartridge on the Vizor Connect has a combined power supply consisting of solar cells and a rechargeable lithium polymer battery.



When the helmet is operated in Bluetooth® mode, the solar cells do not provide sufficient power. The helmet battery must therefore be charged. Runtime in Bluetooth® mode: approx. 40 hours. Charging time: approx. 3 hours



Fresh air

To counteract welding fumes

In addition to glare protection, protection against welding fumes is another requisite for welders.

Employers are required to comply with enhanced occupational safety standards with regard to welding fumes. The fresh air system protects the health of welders. It also increases comfort during the welding process, particularly at high ambient temperatures.

TH3 certified

Highest safety class: Filters up to 99.8 % of welding fume particles out of the ambient air.



The functional principle

The fresh air system consists of a fresh air blower, interconnecting hose and carrying strap. The fresh air blower attached to the carrying strap filters up to 99.8 % of welding fume particles out of the ambient air via a TH3 particle filter (highest possible classification) and directs the cleaned air directly into the Vizor Connect via the interconnecting hose. This represents an almost 100 percent improvement in terms of exposure to welding fume particles.



4-Point shoulder carrying system to ensure even weight distribution

Ergonomics+

Alongside the fresh air system, a 4-point harness provides improved ergonomics when working. This relieves the strain on the welder by distributing the weight more evenly over the upper body.



150-250l

Adjustable fresh air supply with three levels



Battery status and particle filter test with warning function



Up to 20 hours battery life

We take responsibility



Perfect protection – even before the arc ignites

Thanks to Bluetooth technology, the auto-darkening filter cartridge of the Vizor Connect closes before you start welding, preventing your eyes and face from being exposed to harmful UV radiation for even a split second. Impressive visibility comes from the ergonomic nose cut, which when open – and combined with the brightness level of 2.5 – stops you from becoming fatigued and improves concentration levels.

Clean air meets maximum comfort

In combination with the fresh air system, the Vizor Connect filters 99.8% of welding fume particles out of the ambient air, protecting the lungs as well as the face. The cleaned air is directed into the Vizor Connect via the interconnecting hose. A welcome side effect of this is that even at high ambient temperatures, the fresh air system keeps you cool.

Technical data

Vizor Connect			
Field of vision	Nose cut-out ensures 2.3 to 6.3 times the field of vision of a 100 x 50 mm industry standard auto-darkening filter cartridge depending on the headband setting		
Levels of protection	Autopilot: 2.5 (light conditions) 5 < 12 (dark conditions) Autopilot inactive: 2.5 (light conditions) 7 – 12 (dark conditions)		
Eye protection	Ultraviolet/infrared protection: maximum protection across all levels of protection		
Switching time from light to dark	Bluetooth® Low Energy mode activated: Auto-darkening filter cartridge darkens before the arc is ignited	Sensor mode (Bluetooth® Low Energy deactivated): 0.090 ms (23°C/73°F) 0.070 ms (55°C/131°F)	
Switching time from dark to light	0.1 – 2.0 s (twilight function)		
Classification according to EN379	Optical class: 1	Scattered light class: 1	Homogeneity class: 1 Angle dependence class: 2
Power supply	Lithium polymer battery that can be charged via USB-C cable, supported by solar cells		
Charging time	approx. 3 hours		
Runtime in Bluetooth® mode	approx. 40 hours		
Weight	0.55 kg / 1.21 lb		

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Fronius Canada Ltd.
2875 Argenta Road, Units 4,5 & 6
Mississauga, ON L5N 8G6
Canada
T +1 905 288-21 00
F +1 905 288-21 01
sales.canada@fronius.com
www.fronius.ca

Fronius USA LLC
6797 Fronius Drive
Portage, IN 46368
USA
T +1 877 FRONIUS
sales.usa@fronius.com
www.fronius-usa.com

Fronius UK Limited
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom
T +44 1908 512 300
info-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
T +43 7242 241-0
F +43 7242 241-95 39 40
sales@fronius.com
www.fronius.com