

/ Perfect Welding / Solar Energy / Perfect Charging



VIZOR CONNECT

 Bluetooth®

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.

Throughout 6 – 8 hours a day of welding, a welder will ignite the arc more than a hundred times. **EVERY TIME IT IS IGNITED**, there is a split-second **DELAY** before the automatic auto-darkening filter cartridge closes.

NOT SO WITH THE VIZOR CONNECT.

What's your
Welding Challenge?

Let's get connected.



INCREASED COMFORT

INCREASED SAFETY

CONNECTION TO THE WELDING SYSTEM



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.

AUTOPILOT



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

PANORAMIC VIEW



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.

BRIGHTNESS LEVEL OF 2.5



With a brightness level of 2.5 when open, the Vizor Connect is ideal for both pre-fabrication and rework tasks, since the welder no longer needs to continually take the helmet on and off.

COMPLETE SYSTEM POWER SOURCE AND WELDING HELMET

/ MagicWave 230i / TransTig 230i / TPS/i *

The three 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 optimized 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.

6x
BIGGER FIELD
OF VISION



/ Panoramic field of vision



/ Comfort headband



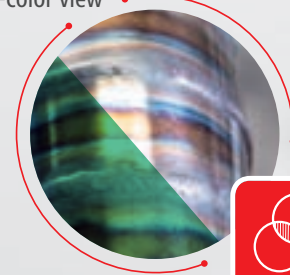
/ Patented eccentric



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



/ True-color view



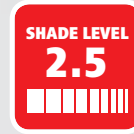
MAXIMUM PROTECTION



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



/ Autopilot



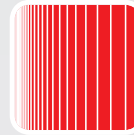
/ Much brighter view in light conditions



/ Levels of protection



/ Grinding mode



/ Twilight function



/ Sensitivity control in sensor mode

VIZOR CONNECT



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

1



2

SELECT the PRESETTINGS 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)

4





**CONNECTION
TO THE POWER SOURCE**

FROM HELMET TO SAFETY SYSTEM IN JUST A FEW STEPS



3



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

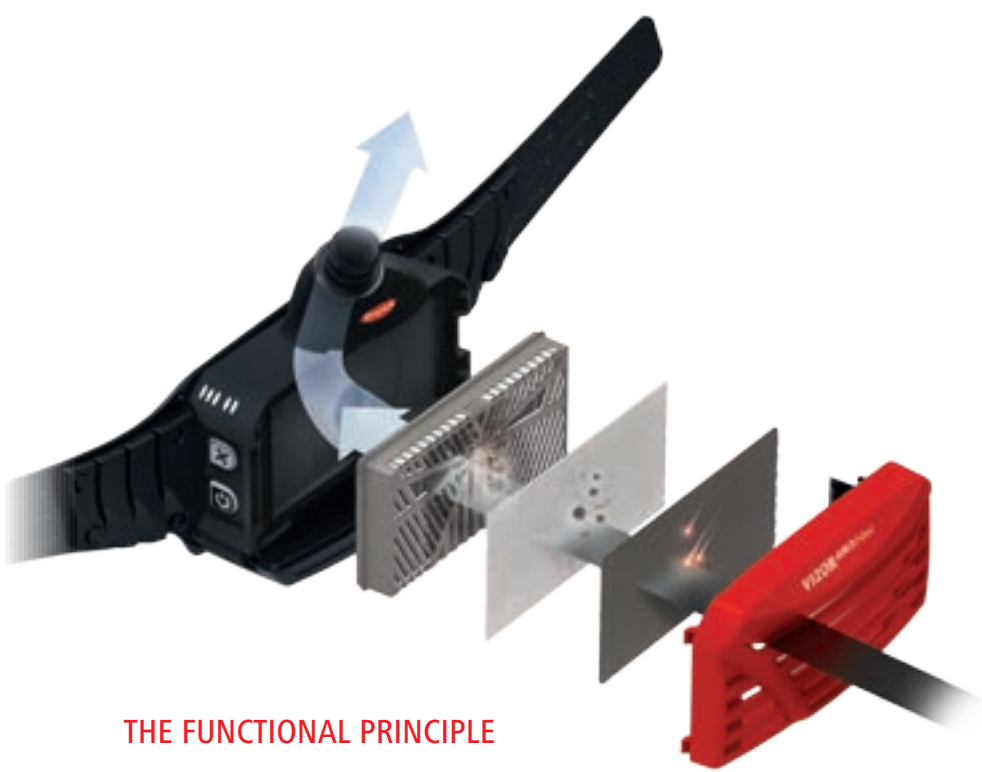
**HIGHEST
SAFETY CLASS**

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 for improved ergonomics when working. This relieves the strain on the welder by distributing the weight more evenly over the upper body.



ADJUSTABLE FRESH AIR
SUPPLY WITH THREE LEVELS



150-250l

BATTERY STATUS AND
PARTICLE FILTER TEST WITH
WARNING FUNCTION



UP TO 20 HOURS
BATTERY LIFE

20h





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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THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,760 employees worldwide and 1,253 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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