

2017



www.weltekinternational.com



Weltek[®]
INTERNATIONAL

Weltek®, expertise and experience in welding protection.

Weltek®

Being an active player in the field of individual and collective protection for welding for over 35 years, Alain Donati launched the Weltek project in 2003. Since then, Weltek, still independent and family-ran, has become one of the market leaders in welding protection in France and in Europe.



Romuald DONATI Alain DONATI Terence DONATI

Solutions

Weltek® provides innovative solutions for welders within three specific and distinctive segments : autodarkening helmets, powered-air helmets with respiratory protection, and helmets with safety hard hats.



Production

Since 2013, Weltek® designs, certifies, manufactures and distributes a full range of autodarkening helmets. The Kapiro® and Navitek® welding helmets, as well as the Airkos purifying respirator, face a large success by bringing quality PPE to the market, with adapted pricing.



Distribution

For industrial manufacturers, the decision to select a network of local welding specialists is the key to success. Our distributors represent a valuable asset in the promotion of our helmets, the conduction of fieldtests and presentations, the follow-up on spare parts and warranty service. Weltek applies this distribution strategy in every market where it is represented. Moreover, Weltek benefits from specific partnerships with end-users to test and develop new products.





Experience

Quality

Innovation

Branding

SUMMARY

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- Shock page 28 to 33
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Kapio[®], the most polyvalent welding helmet

The Kapio[®] welding helmet is one of the most versatile welding helmets on the market.

In its Mat version, with the S3 filter and without side vision, the Kapio[®] is the perfect entry-level autodarkening helmet.

The second version is available with all graphics and with all filters.

Once equipped with side vision in safe polycarbonate shade DIN 5, and with advanced filters like the S9 or the S13, the third version of Kapio[®] becomes a top-of-the-range alternative for welders.

The new Kapio[®] S13 is a break-through in the autodarkening world.

Its surprising colors restitution, its contrasts enhancement, its expanded viewing area and its very bright clear shade make the comparison with existing autodarkening helmets quite difficult.

In addition, the combination of this new vision to the side visions and to the ergonomics of the Kapio[®] creates a perfect association.

One of Weltek's strongest arguments : making the branding on its Kapio[®] helmets easily available to its partners, whether it is partial or full branding.

Experience

Quality

Branding



Kapio® S13,

The perfect combination of a light and ergonomic helmet with side vision, with colors and contrasts restitution, and with digital display.



Colors restitution

Equipped with a very specific glass-pack, the S13 enables the welder to clearly distinguish all shades of colors. More specifically the colors which are usually difficult to assess : red, yellow, green, blue and purple. The old variations of dark green make standard autodarkening helmets look quite old-fashioned.

The colors restitution is also greatly appreciated in the clear mode or during grinding applications.

Contrasts enhancement

The S13 provides a better vision of the colors, but it also greatly enhances their variations. The clear perception of color gradients improves the visual confort and decreases the effects of claustrophobia. The first use of the S13 gives an impression of a very bright clear shade, very rarely perceived in standard autodarkening helmets.

The close environment of the welder seems more fluid and clear.

Kapio S13
Green Racing Side Vision

Experience

Quality

Innovation

Branding

Control panel

The different settings and the digital display are gathered on a new control panel. More intuitive, each push-button is now connected to a single setting : welding shade, sensitivity level of the arc sensors, the delay to clear shade, and the Grind/Weld mode. The digital display shows all parameters, in addition to the charge level of the replaceable Lithium batteries which power the S13.

The control panel is now part of the full casing of the autodarkening filter, including the cradle and the frame retainer, for easier maintenance of the protection plates and the Lithium batteries.

Side Vision

The dual side vision on the Kapio® perfectly completes the extra-large viewing area of the S13. In safe shade DIN 5 polycarbonate, the side vision increases the angle of vision of the welder up to 160°, while providing perfect protection against UV and infrareds coming from a welding arc closeby or from reverberation.

The resulting large angle of vision greatly improves the welder's confort and safety by ensuring a full control of his/her close environment.

Several Kapio® are also available without side vision : Black Racing, Blue Racing, Gangster and Jeans.

XXL Viewing Area

The welder benefits from the extremely viewing area of the S13.

This large vision is much appreciated during preparation works, and also for grinding applications. During welding, it enables the operator to better monitor the arc.

Thanks to the new casing and the power source not requiring any front solar panels, the viewing area was extended to the maximum of the Kapio® window capability, while keeping 4 arc sensors : 100x67mm.

In addition, the ergonomic position of the autodarkening filter inside the Kapio® shell brings the viewing area closer to the eyes, increasing the resulting angle of vision.



Kapio® S13,

The perfect combination of a light and ergonomic helmet with side vision, with colors and contrasts restitution, and with digital display.



Casing

The S13 is the first autodarkening filter to benefit from the new Weltek casing.

This new full casing combines the insertion cradle, the complete filter unit, the frame retainers, and the magnifying lens holders for easier maintenance and spares replacement.

The control panels incorporating the digital display is locked into vertical position for improved robustness.

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Warranty

The Kapio® S13 is covered by a full 3-year warranty. The reliability of the glass-pack and the new quality control procedures enables Weltek to offer a warranty service extended to 3 years for the S13.

Detection

Thanks to its 4 independent arc sensors, the S13 filter reacts in 0,1ms to the first frequencies coming from the welding arc. Equipped with a greater angle of detection and a lower threshold, these 4 arc sensors are also capable to detect very low-amperage arcs for a flawless detection, specially in TIG process.

Power

The new S13 is 100% Lithium powered. The two CR2450 Lithium batteries are located in a reinforced sliding rack behind the control panel.

The digital display indicates the operator the level of charge of these two batteries. Batteries must be replaced simultaneously.



Technical Specifications

Welding shade	DIN 5-8 and DIN 9-13
Clear Shade	DIN 4
Switching speed	0,1ms
Arc Sensor	4 – Independent
Viewing area	100 x 67 mm
Optical classes	1/1/1/2
Technology	Twisted Nematic
Liquid Crystals	Colors and contrasts
Power	CR2450 Lithium Batteries
Digital display	Welding/grinding settings
Controls	Soft-touch knobs
Sensitivity	6 pre-set levels
Delay to clear	From 0,1 to 1,9s
Grinding	Yes - Locked shade DIN 4
Applications	Electrodes, MIG/MAG, TIG Pulsed arc, Micro-Tig, Grinding
Total weight	515g (with Side Vision)
Warranty	3 years
Standards	EN 166 B, EN 175 B, EN 379



Kapio S13 Black Racing

Kapio S13 Blue Racing



Kapio S13 Gangster

Kapio S13 Yellow Gangster



Kapio S13 Green Racing

Kapio S13 Jeans



Kapio S13 USA

Kapio S13 Orange Racing

Item numbers

Kapio® S13with Side Vision in shade DIN 5 polycarbonate

Kapio® S13 Side Vision Yellow Gangster	PL21S13
Kapio® S13 Side Vision Black Racing	PL24S13
Kapio® S13 Side Vision Blue Racing	PL26S13
Kapio® S13 Side Vision Gangster	PL28S13
Kapio® S13 Side Vision Jeans	PL29S13
Kapio® S13 Side Vision Orange	PL30S13
Kapio® S13 Side Vision Green Racing	PL32S13
Kapio® S13 Side Vision USA	PL41S13

Kapio® S13 standard

Kapio® S13 Black Racing	PL14S13
Kapio® S13 Blue Racing	PL16S13
Kapio® S13 Gangster	PL18S13
Kapio® S13 Jeans	PL19S13

Kapio® : comfort and safety

Ergonomics

Specific ergonomics criteria have been applied to the design process of the Kapio®, in order for the shell to provide perfect protection for the forehead, the skull, the ears and the neck.



Grinding

The Kapio® shell and all its polycarbonates have been tested and approved for grinding, according to the specific standard EN 166 B and EN 175 B. The S4, S9 and S13 autodarkening filters provide a Grind mode with a locked shade DIN 4, and shut-down arc sensors.



Light weight

The Kapio® helmet was designed to create a light, robust and ergonomic helmet : the Kapio® shell alone only weighs 238g. The longitudinal headgear is available on all Kapio® versions, while the standard headgear comes with the Mat version only.



Headgear

The large majority of Kapio® helmets are combined to the longitudinal headgear with 4 settings : height, width, angle and back/forward adjustment, ideal for welders wearing spectacles.



Magnifying lens

The frame retainer holding the autodarkening inside the Kapio® can also host a magnifying lens for optical assistance to the welder, directly over the viewing area. Several corrections are available : +1.00, +1.50, +2.00 and +2.50.



Standards

The Kapio® shell is certified according to EN 175 B, and all its clear polycarbonates according to EN 166 B. All autodarkening filters are certified according to the EN 379 standard, and the Kapio® helmet is certified with the Airkos Powered Air Purifying Respirator according to EN 12941. The Kapio® helmet is also approved to the ANSI, CSA, and AS/NZS standards.

All CE certificats are available in PDF format on www.weltekinternational.com



Experience

Quality

Innovation

Branding

The full control of the production process combined to the flexibility of our structure enables us to offer specific branding on our Kapio® and Navitek® helmets, as well as the Airkos filtration unit.

For the full branding, secondary CE certificats are also available.

Prototypes

Our design office is available to quickly and easily create prototypes of branded helmets, in PDF or JPG formats. These prototypes are created free of charge, according to your logo, your color charts and your ideas. A full branding project implies the production of a real prototype once the PDF prototype is approved, free of charge, before starting any production.



Partial Branding

A Partial branding is based on an existing Weltek helmet, with additional specifically branded stickers. These stickers have a heat-resistant and spatter-resistant filming, in addition to a reinforced glue for increased lifecycle. The Minimum Order Quantity remains very low for this first version of branding : our sales force will provide all necessary detailed information.



Full Branding

This level of branding implies a closer partnership with Weltek, and the development of a specific, unique and exclusive helmet. The full branding can be applied to the complete shell of the Kapio® helmet, to the flip-up front of the Navitek® helmet, to the inside and outside casings of all our autodarkening filters, to the Airkos blower unit, to the Shock safety helmets, and to the individual packages. Our design office will jointly work will all involved parties to easily and smoothly bring this type of projects to completion.





Kapiro® S9

The large viewing area of the Kapiro® S9 provides a perfect vision of the welding arc, with excellent 1/1/1/2 optical classifications. The 4 independent arc sensors are combined to a fast switching speed of 0,1ms for a perfect detection.

The welding shade can be selected from 2 separate ranges : from DIN 5 to DIN 8, and from DIN 9 to DIN 13. With the sensitivity and delay adjustments, the Kapiro® S9 is fit for all welding processes : electrodes, MIG/MAG, TIG, Micro-TIG, and Pulsed arc. All settings are gathered on the digital display, on the inside control panel.

In addition, the S9 is equipped with the same soft-touch knobs as the S13 for easier access, even with welding gloves on. The S9 offers a Grind mode : shutting down all 4 arc sensors and locking the filter in a clear shade DIN 4.

The new S9 now comes in the new Weltek full casing, combining the frame retainer, the filter itself, the insertion cradle and the magnifying lens holders. The control panel is now locked into a vertical position and equipped with a reinforced battery rack for its new CR2450 Lithium batteries.



Large vision

Digital display

Soft-touch knobs

Technical Specifications

Welding shade	DIN 5-8 and DIN 9-13
Clear Shade	DIN 4
Switching speed	0,1ms
Arc Sensor	4 – Independent
Viewing area	100 x 50 mm
Optical classes	1/1/1/2
Technology	Twisted Nematic
Power	Solar + CR2450 Lithium Batteries
Digital display	Welding/grinding settings
Controls	Soft-touch knobs
Sensitivity	6 pre-set levels
Delay to clear	From 0,1 to 1,9s
Grinding	Yes - Locked shade DIN 4
Applications	Electrodes, MIG/MAG, TIG Pulsed arc, Micro-Tig, Grinding
Total weight	495g (With Side Vision)
Warranty	2 years
Standards	EN 166 B, EN 175 B, EN 379



Kapiro S9 Black Racing



Kapiro S9 Orange Racing



Kapiro S9 Gangster



Kapiro S9 Blue Racing



Kapiro S9 Yellow Gangster



Kapiro S9 Green Racing

Item numbers

Kapiro® S9 with Side Vision in shade DIN 5 polycarbonate

Kapiro® S9 Side Vision Yellow Gangster	PL21S9
Kapiro® S9 Side Vision Black Racing	PL24S9
Kapiro® S9 Side Vision Blue Racing	PL26S9
Kapiro® S9 Side Vision Gangster	PL28S9
Kapiro® S9 Side Vision Jeans	PL29S9
Kapiro® S9 Side Vision Orange	PL30S9
Kapiro® S9 Side Vision Green Racing	PL32S9
Kapiro® S9 Side Vision USA	PL41S9

Kapiro® S9 standard

Kapiro® S9 Black Racing	PL14S9
Kapiro® S9 Blue Racing	PL16S9
Kapiro® S9 Gangster	PL18S9
Kapiro® S9 Jeans	PL19S9



Kapiro S9 Jeans



Kapiro S9 USA



Kapiro® S4

The 4 independent arc sensors are combined to a fast switching speed of 0,2ms for a flawless detection of the welding arc.

The liquid crystals, with excellent 1/1/1/2 classification, provide a perfect vision of the welding arc.

The continuous setting of the welding shade from DIN 9 to DIN 13 is completed by the possible adjustments of the sensitivity of the 4 arc sensors, and the delay to the clear shade. The Kapiro® S4 is fit for all welding processes : electrodes, MIG/MAG and TIG.

The S4 filter is equipped with a Grind mode : all 4 sensors are shut down and the clear DIN 4 shade is locked.



Versatility

4 sensors

Grinding

Technical Specifications

Welding shade	DIN 9-13
Clear Shade	DIN 4
Switching speed	0,2ms
Arc Sensor	4 – Independent
Viewing area	93 x 43 mm
Optical classes	1/1/1/2
Technology	Twisted Nematic
Power	Solar panels
Digital display	No
Controls	Continuous knobs
Sensitivity	Adjustable
Delay to clear	From 0,1 to 1s
Grinding	Yes -Locked shade DIN 4
Applications	Electrodes, MIG/MAG, TIG Grinding
Total weight	458 (With Side Vision)
Warranty	2 years
Standards	EN 166 B, EN 175 B, EN 379

Item numbers

Kapio® S4 with side vision in shade DIN 5 polycarbonate

Kapio® S4 Side Vision Yellow Gangster	PL21S4
Kapio® S4 Side Vision Black Racing	PL24S4
Kapio® S4 Side Vision Blue Racing	PL26S4
Kapio® S4 Side Vision Gangster	PL28S4
Kapio® S4 Side Vision Jeans	PL29S4
Kapio® S4 Side Vision Orange	PL30S4
Kapio® S4 Side Vision Green Racing	PL32S4
Kapio® S4 Side Vision USA	PL41S4

Kapio® S4 standard

Kapio® S4 Black Racing	PL14S4
Kapio® S4 Blue Racing	PL16S4
Kapio® S4 Gangster	PL18S4
Kapio® S4 Jeans	PL19S4



Kapio S4 Blue Racing

Kapio S4 Yellow Gangster

Kapio S4 Black Racing

Kapio S4 Gangster

Kapio S4 Orange Racing

Kapio S4 Jeans

Kapio S4 USA

Kapio S4 Green Racing



Kapio® S3

The Kapio® S3 is the perfect entry-level autodarkening helmet.

The continuous setting of the welding shade from DIN 9 to DIN 13 is completed by the adjustments of the sensitivity of the arc sensors, and the delay to the clear shade. The Kapio® S3 is fit for all welding processes : electrodes, MIG/MAG and TIG.

In addition to an advantaged price positioning, the Kapio® S3 still offers 2 independent arc sensors and a 0.3ms switching speed.

The S3 is equipped with high quality liquid crystals offering excellent 1/1/1/2 optical classification, and the complete autodarkening filter is covered by a 2-year warranty.



Variable Shade

2 arc sensors

Technical Specifications

Welding shade	DIN 9-13
Clear Shade	DIN 4
Switching speed	0,3ms
Arc Sensor	2 – Independent
Viewing area	92 x 41 mm
Optical classes	1/1/1/2
Technology	Twisted Nematic
Power	Solar panels
Digital display	No
Controls	Low-High knobs
Sensitivity	Yes
Delay to clear	Yes
Grinding	No
Applications	Electrodes, MIG/MAG, TIG
Total weight	460g (With Side Vision)
Warranty	2 years
Standards	EN 166 B, EN 175 B, EN 379

Item numbers

Kapiro® S3 with Side Vision in shade DIN 5 polycarbonate

Kapiro® S3 Side Vision Yellow Gangster	PL21S3
Kapiro® S3 Side Vision Black Racing	PL24S3
Kapiro® S3 Side Vision Blue Racing	PL26S3
Kapiro® S3 Side Vision Gangster	PL28S3
Kapiro® S3 Side Vision Jeans	PL29S3
Kapiro® S3 Side Vision Orange	PL30S3
Kapiro® S3 Side Vision Green Racing	PL32S3
Kapiro® S3 Side Vision USA	PL41S3

Kapiro® S3 standard

Kapiro® S3 Black Racing	PL14S3
Kapiro® S3 Blue Racing	PL16S3
Kapiro® S3 Gangster	PL18S3
Kapiro® S3 Jeans	PL19S3

Kapiro® S3 Mat

Kapiro® S3 Mat	PL05S3
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Kapiro S3 Yellow Gangster

Kapiro S3 Orange Racing

Kapiro S3 Gangster

Kapiro S3 Black Racing

Kapiro S4 Jeans

Kapiro S3 Green Racing

Kapiro S3 Mat

Kapiro S3 Blue Racing

Navitek® Airkos®, the perfect combination

The Navitek® is one of the most advanced welding helmets.

It combines a vision extended to 160° through the side visions in shade DIN 5 polycarbonate, a large and clear grinding visor below the welding flip-up front, and a selection of autodarkening filters, mineral glass and visors.

All versions of Navitek® are completed with an Airkos® respiratory protection unit. Powered by a Lithium-ion battery, the Airkos® provides purified air inside the Navitek®, with a filtration of Solid and Liquid Particules. An advanced alarm system informs the operator of low-battery and clogged-filter to replace. 2 airflows are available to the operators, depending on their application, their environment, and their habits.



Airkos[®], the powerfull Powered Air Purifying Respirator (PAPR)

AIRKOS[®]

Airkos[®] is a Powered Air Purifying Respiratory unit enabling the operator to weld/grind/cut while breathing purified air through a particulate filter.

This unit offers two airflows to select from, with a simple pressure on the unique control knob.

The welder is informed by 2 separate sound alarms for clogged-filter status and low-battery.

Operating on a replaceable and rechargeable Lithium-ion battery, Airkos[®] is a completely autonomous unit filtrating Particules Solid and Liquid (PSL).

The item numbers for Airkos combined to all Navitek[®] helmets and S4, S9 and S13 autodarkening filters are listed on page 25.



Technical Specifications

Filtration	PRSL
Inward Leakage	TH2
Airflows	180l/m-220l/m
Clogged filter alarm	Yes- Sound/visual
Low battery alarm	Yes- Sound/visual
Pre-filter	Yes
Autonomy (standard battery)	8-10h (with 180l/m)
Battery	External Lithium-ion
Hose protection	Yes
Norm	EN 12941
Weight (unit+battery+belt+filter)	1180g
Warranty	1 year



PSL Filtration

Simplicity

Comfort

Autonomy

Filtration



The Airkos® provides a filtration of Solid and Liquid Particules (PSL). The bolted face seal to the Navitek® shell ensures a restricted TH2 inward leakage of contaminants inside the hood. The filter used on the Airkos® is classified as «Reusable» (PRSL) and should not be changed at every shift. The filter alarm will inform the operator when to replace it.



Pre-Filter

The blower unit is equipped with a pre-filter, preventing larger particles to prematurely clog the PSL filter. The proper maintenance and replacement of the pre-filter greatly extends the life of the main filter.



Airflows

The Airkos® offers 2 airflows, based on the welding application, the environment, and the operator's habits. 180l/m is the initial minimum speed. With a simple pressure on the single control knob, the Airkos® increases the airflow to 220 l/m.



Battery

Airkos® is powered by an external, rechargeable and replaceable Lithium-ion battery. The blower unit is delivered with a 4-cell Lithium-ion battery. A 6-cell heavy-duty Lithium-ion battery is also available as an accessory. These two Airkos® batteries are associated to a smart charger operating in 3 separate phases : discharge, charge up to 100%, and trickle charge. The batteries can be directly charged while being already inserted into the blower unit.



Autonomy

With the standard fully charge battery, the Airkos® is able to run up to 10 hours with a new filter on, and with the 180l/m airflow selected. Under these conditions, the operating time can be extended up to 16 hours when using the Heavy-Duty battery. The Heavy-Duty battery also enables the Airkos blower to run 7 to 8 hours when the 220l/m airflow is selected. Important : it is advised to replace the pre-filter every 40 hours of use in order to maintain the maximum capacity of autonomy.

Light weight



The weight of PAPR is critical considering the numbers of hours worn per day. Therefore, the weight is restricted to a minimum on the Airkos. The exact weight of the complete Airkos® blower unit, the standard battery, the PSL filter with its prefilter, and the large padded belt is down to an uncomparable 1,18Kg.

Airkos[®], the powerfull Powered Air Purifying Respirator (PAPR)

Filter alarm

The Airkos[®] is equipped with a sound and visual alarm when the PSL filter is clogged, meaning that the blower unit can no longer provide the minimum airflow of purified air. Prefilter and/or filter needs to be replaced.



Battery alarm

In addition to the clogged-filter alarm, the blower unit is equipped with a separate sound and visual alarm to inform the operator of the low-battery status of the Airkos[®].



Grinding

The Navitek[®] is based on a large clear visor for perfect vision during grinding. The Navitek[®] shell and all its polycarbonates are tested and certified for grinding with the specific standards EN 166 B and EN 175 B. In addition, with this clear visor the Navitek[®] Airkos[®] enables the welder to do preparation works, adjust the generator, maintain the torch, etc. The operator can work with the hood down all the time and therefore benefits from the respiratory protection.





Alarms

Grinding

Harness

CE



Face seal

The sealing on the Navitek® helmet is guaranteed by a flexible face seal positioned all around the welder's face. This face seal is tightly fastened to the shell with plastic nuts and bolts in order to minimize the inward leakage. The face seal is manufactured with flame retardant cotton, certified according to EN 11611.



Air hose

The flexible hose ensures the liaison between the blower unit and the central airduct located onto the headgear. The baionnette connections provide a perfect lock, and are easy to manipulate even with welding gloves. The air hose being the most exposed part of any filtration unit, the Airkos® hose is protected by a complete flame-retardant cover, securely fastened with velcro on both ends, certified according to EN 11611.



Belt

The Airkos® is supported by a large padded comfort belt, manufactured with flame retardant material. The ergonomic support and the perfect balance greatly improve comfort for the operator. Locking the belt is quick and secure, and the adjustment is easily done, even with welding gloves on.

A 25 cm extension is available.

Comfort harness

Also available as an option, the harness completes the Airkos® belt in shifting part of the weight of the respiratory protection unit from the waist to the shoulders. The optional harness is secured on existing clips from the belt, and can be adjusted to the operator's height.

The straps present two large and padded supports for improved shoulders comfort.

A velcro on the back enables the air hose to be blocked onto the operator's back and prevents any hanging risk.



Standards

The Airkos® respiratory protection unit is certified under EN 12941 for TH2 PRSL with and only with the Navitek® helmet.

The CE certificate and the full tests report are available for downloads on www.weltekinternational.com

Navitek® Airkos®, a polyvalent powered-air helmet

Ergonomics

Combining a grinding visor to a welding flip required more attention for extended ergonomics in order to ensure full protection for the operator, but keeping a restrained volume and weight.



Side Vision

With polycarbonates in safe shade DIN 5, the Navitek® provides a 160° vision to the welder, for improved safety and comfort. The side vision greatly improves the general comfort, by decreasing the feeling of claustrophobia and reducing stress and tiredness. The Navitek® is also available with blank sides, without side vision.



Storage bag



Each Navitek® Airkos is delivered with a storage bag. This specific bag facilitates the storage and the transportation of the complete helmet. It also enables the welder to stock the main necessary spare parts and avoid being disrupted when a maintenance alarm goes off.



Light weight

The reference weight of 1,18Kg includes the brushless motor, the standard Lithium-ion battery and the large padded belt.

Once combined to the Navitek® S4 helmet with the flame retardant face seal, the headgear with the airduct and the air hose, the total weight is 2,35Kg.

The perfect balance and the excellent ergonomics bring additional comfort arguments.



Headgear

The strong headgear associated with the Navitek® offers 4 settings: height, width, angle, and longitudinal adjustments for welders operating with corrective spectacles.

The airduct is locked in a central position for perfect balance, and the airflow is therefore distributed uniformly inside the helmet.

The hose connection is the same baionnette connection from the blower unit, and is easy to manipulate even with welding gloves on. The adjustable backstrap improves the access to the ratchet.

Magnifying lens



The frame retaining the autodarkening filter inside the Navitek® flip can support and secure a magnifying lens on top of the filter to assist the operator with his/her vision.

The lens is tightly locked into position, directly over the viewing area.

Manufactured in high quality polycarbonate with excellent optical classification, the magnifying lenses are available in +1.00, +1.50, +2.00 and +2.50.



Navitek® Airkos®

Exploded views, spare parts and accessories are listed on Pages 34 and 35



Navitek® S13 Airkos®

- Colors restitution
- Contrasts enhancement
- Clear shade
- XXL viewing area
- Digital display
- Variable shade 5-8 et 9-13
- 4 independent arc sensors
- Grinding mode

Navitek® S13 Airkos® – Side Vision
Navitek® S13 Airkos®



CR58S13
CR38S13



Navitek® S9 Airkos®

- XL viewing area
- Digital display
- Variable shade 5-8 et 9-13
- 4 independent arc sensors
- Grinding mode

Navitek® S9 Airkos® – Side Vision
Navitek® S9 Airkos®



CR58S9
CR38S9

Navitek® Clear Airkos®

- Large clear visor for grinding
- EN 166B certified polycarbonate



Navitek® Clear Airkos

CR7700



Navitek® S4 Airkos®

- Variable shade 9-13
- 4 independent arc sensors
- Grinding mode

Navitek® S4 Airkos® – Side Vision
Navitek® S4 Airkos®



CR58S4
CR38S4

Navitek® DIN 5 Airkos®

- Large clear visor for grinding
- Shade DIN 5 full over-visor



Navitek® DIN 5 Airkos

CR7705



Navitek® M11 Airkos®

- Passive mineral glass
- Shade DIN 11
- 110x90mm viewing area

Navitek® M11 Airkos® – Side Vision
Navitek® M11 Airkos®



CR58M11
CR38M11

Kapio® Airkos®, welding helmet with Powered Air Purifying Respirator

Kapio® S4 Airkos®

Efficient and perfect for welding applications, the Kapio® helmet is also available and certified with the Airkos® respiratory protection.

Combined to the S4 autodarkening filter, the Kapio® is fit to all welding processes : electrodes, MIG/MAG and TIG. The adjustable welding shade from DIN 9 to DIN 13, the sensitivity of the sensors and the delay back to clear shade complete the 4 arc sensors for a flawless detection of the welding arc.

The Kapio® helmet is available with or without the side vision. The side vision in safe shade DIN 5 polycarbonate enables the operator to expand his/her viewing area and better control the close environment. The side vision provides sufficient protection from UV and Infrared coming from a potential welding arc from the side.

The Kapio® is available in a large selection of colors and graphics to choose from : the Racing versions (Black, Blue, Orange and Green), the Gangster versions (Red and Yellow), as well as the USA and Jeans. With or without the side vision, according to the summary table below.

The Grinding mode on the S4 autodarkening filter offers the capability to grind through a locked shade DIN 4 vision. If the requirement for repeat grinding or the need for a clear vision is necessary, The Navitek® S4 helmet presents a better alternative with its large and clear visor below the welding arc hosting the S4 adf and the side vision.



The Airkos® Powered Air Purifying Respirator is identical to the version associated to the Navitek® helmet :

- Particules Solid and Liquid filtration
- EN 12941 with TH2PRSL classification
- Adjustable airflow from 180l/m to 220l/m
- Lithium-ion battery with 8-10h operating time
- Clogged-filter alarm
- Low-charge alarm
- Padded belt
- Air hose with FR cover
- Storage bag included

Item numbers

Kapio® Airkos® with Side Vision

Kapio® S4 Airkos® Side vision Yellow	CR21S4
Kapio® S4 Airkos® Side vision Black Racing	CR24S4
Kapio® S4 Airkos® Side vision Blue Racing	CR26S4
Kapio® S4 Airkos® Side vision Gangster	CR28S4
Kapio® S4 Airkos® Side vision Jeans	CR29S4
Kapio® S4 Airkos® Side vision Orange Racing	CR30S4
Kapio® S4 Airkos® Side vision Green Racing	CR32S4
Kapio® S4 Airkos® Side vision USA	CR41S4

Kapio® Airkos®

Kapio® S4 Airkos® Black Racing	CR14S4
Kapio® S4 Airkos® Blue Racing	CR16S4
Kapio® S4 Airkos® Gangster	CR18S4
Kapio® S4 Airkos® Jeans	CR19S4





Kapio®

Welding

Filtration

Simplicity

Efficiency

Exploded views, spare parts and accessories are listed on pages 34 and 35

Kapio® Mat S3 Airkos®

The Kapio® Mat S3 Airkos answers all criteria for an entry-level autodarkening helmet with respiratory protection.

The combination of the Kapio® helmet in its Mat version and no side vision, the S3 autodarkening filter, and the Airkos powered air purifying respirator indeed offers a price-advantaged solution for occasional use and/or budget limits.

The Kapio® Mat S3 is however fit for all welding processes (electrodes, MIG/MAG, and TIG), thanks to its 2 independent arc sensors and its switching speed of 0.3ms. The welding shade can be adjusted from DIN 9 to DIN 13, but no grinding mode is available. The operator can adjust the sensitivity of the sensors and the delay to the clear shade.

The Airkos® unit is identical to the rest of the range.



Kapio® S3 Mat Airkos®

CR05S3



Each version of the Kapio® Airkos®, S3 and S4, is delivered with its own storage bag.

The bag facilitates the storage of the helmet equipped with the face seal and the airduct, as well as the complete blower unit.

It also enables to safely store spare parts and accessories.

SHOCK, Safety hard hat certified to EN 397

The Kapio® welding helmet and the Navitek® welding/grinding helmet are also available with an EN 397 certified safety hard hat.

The Kapio® S4 Shock and the Navitek® S4 Shock present all arguments of a complete and efficient solution for welders operating in risky areas : versatile S4 filter, 4 arc sensors, side vision up to 160°, light and ergonomic safety hard hat, 6-point suspension headgear, lock-in mechanism, and a large clear visor on the Navitek®.

Each Shock complete helmet comes with a storage bag.



NAVITEK® Shock et KAPIO® Shock, Full head protection for welding and grinding



- Up-position lock
- Light weight 770g (Kapiro® S4 version)
- Side vision in safe shade DIN 5
- 4 arc sensors
- Storage bag included



Safety shell

The Concept hard hat is manufactured in ABS and is certified according to EN 397. Its short cap and its small volume create a perfect combination with the welding helmet. The very low weight also contributes to the general comfort of the helmet.

High visibility

High visibility stickers are available to complete the Shock helmet for night use, and for secured and facilitated identification.



Headgear

The headgear is suspended through 6 points on the hard hat for improved comfort and safety. The width is adjusted on the back, through a large and easily accessible knob, even with gloves on. The reinforced ratchet allows the complete set to be locked into position, and decreases the impact of the front overhang.



EN 397

The hard hat answers to all criteria listed under the EN 397 standard, including shock absorption, resistance to penetration, resistance to flame, and anchor points for the jugular strap. Moreover, the helmet is also approved for use on or near parts under tension not exceeding 1000V AC or 1500V DC : responding to the EN 50365 standard.

Shell	ABS (Acrylonitrile-Butadiène-Styrène)
Cap	15mm
Up-position lock	Yes
Headgear	6 points suspension
Adjustment	Ratchet 52-64cm
Electrical resistance	1000V a.c.
Standards	EN 397 EN 50365



Protection Simplicity Comfort Multi-Fonctions

Side Vision



The side vision provides an additional safety feature thanks to the shade DIN 5 polycarbonate, these side vision enable the welder to expand his/her viewing area to 160°: ideal on construction sites or multiple risks areas. The shade DIN 5 is dark enough to avoid any dazzle risk from a nearby welding arc, ensuring full protection against UV and Infrareds.

Storage bag

Each complete Shock helmet is delivered with its own storage bag. This bag provides a safe storage of the complete welding helmet combined to the safety hard hat, and easy storage of spare parts.



Magnifying lens

The frame retaining the S4 autodarkening filter inside the helmet can support and secure a magnifying lens on top of the filter to assist the operator with his/her vision. Magnifying lenses are available in +1.00, +1.50, +2.00 and +2.50.

Branding

The Shock helmet can be branded, on the helmet shell, on the outside of the S4 autodarkening filter, and on the hard hat itself. Contact us for full details.

Up-Lock

The helmet can be locked in the upward position thanks to two side mechanisms with reinforced metallic springs. The welder can then walk with the welding helmet lifted and with a perfectly clear vision, with no risk of helmet falling.



Chin strap

The chin strap enhances the equilibrium and reduces the risk of dropping the Shock helmet, specially from higher workplaces.



KAPIO® S4 Shock, Full head protection for welding



Ergonomics

Specific ergonomics criteria have been applied to the general design of the Kapiro® shell so that it offers perfect protection of the forehead, the top of the skull, the ears and the neck. While keeping the total volume and weight to a minimum.



Item number KAPIO® S4 Shock Complete

KS24S4

Light weight

The Kapiro® shell has been designed to offer a slim and very light-weighted robust shell for the welder. The Kapiro® shell only weighs 238g. When combined to the safety hard hat, the suspended headgear and the S4 autodarkening filter, the Kapiro® Shock shows an uncomparable 770g.

S4

The S4 is equipped with 4 independent arc sensors, combined to a fast switching speed of 0,2ms for a perfect detection of the welding arc. The liquid crystals, with an excellent 1/1/1/2 optical classification, provide a perfect vision of the welding fusion. The continuous setting of the welding shade from DIN 9 to DIN 13 is completed by the continuous settings of sensitivity of the 4 arc sensors, and the delay back to clear shade: the S4 filter is fit for any welding processes: MMA, MIG/MAG and TIG.



Standards

The Kapiro® shell is certified to EN 175 B and the outside protection plate is certified to EN 166 B for approval and certification for welding applications, as well as grinding applications. The S4 filter is certified according to EN 379 for perfect protection against UV rays and Infrareads.

Technical Specifications

Welding shade	DIN 9-13
Clear Shade	DIN 4
Switching speed	0,2ms
Arc Sensor	4 – Independent
Viewing area	93 x 43 mm
Optical classes	1/1/1/2
Technology	Twisted Nematic
Power	Solar panels
Digital display	No
Controls	Continuous knobs
Sensitivity	Adjustable
Delay to clear	From 0,1 to 1s
Grinding	Yes -Blocked shade DIN 4
Applications	Electrodes, MIG/MAG, TIG
Total weight	770g Kapiro® S4 Shock 893g Navitek® S4 Shock
Warranty	2 years
Standards	EN 166 B, EN 175 B, EN 379, EN 397



Navitek® S4 Shock

Item number NAVITEK® S4 Shock complete

KS58S4



Combined helmet

The Navitek® is the most comprehensive welding helmet: offering the S4 outstanding autodarkening filter, enabling the welder to have a 160° vision through side shade 5 polycarbonate, and providing an extralarge clear grinding visor beneath the welding flip-up.



Grinding

The Navitek® is based on a large clear visor for perfect vision during grinding. The Navitek® shell and all its polycarbonates are certified for grinding with the specific standards EN 166 B and EN 175 B. This large clear visor also provides protection to the operator during working phases other than grinding.

Exploded views and user instructions available

Kapio®



Item Numbers

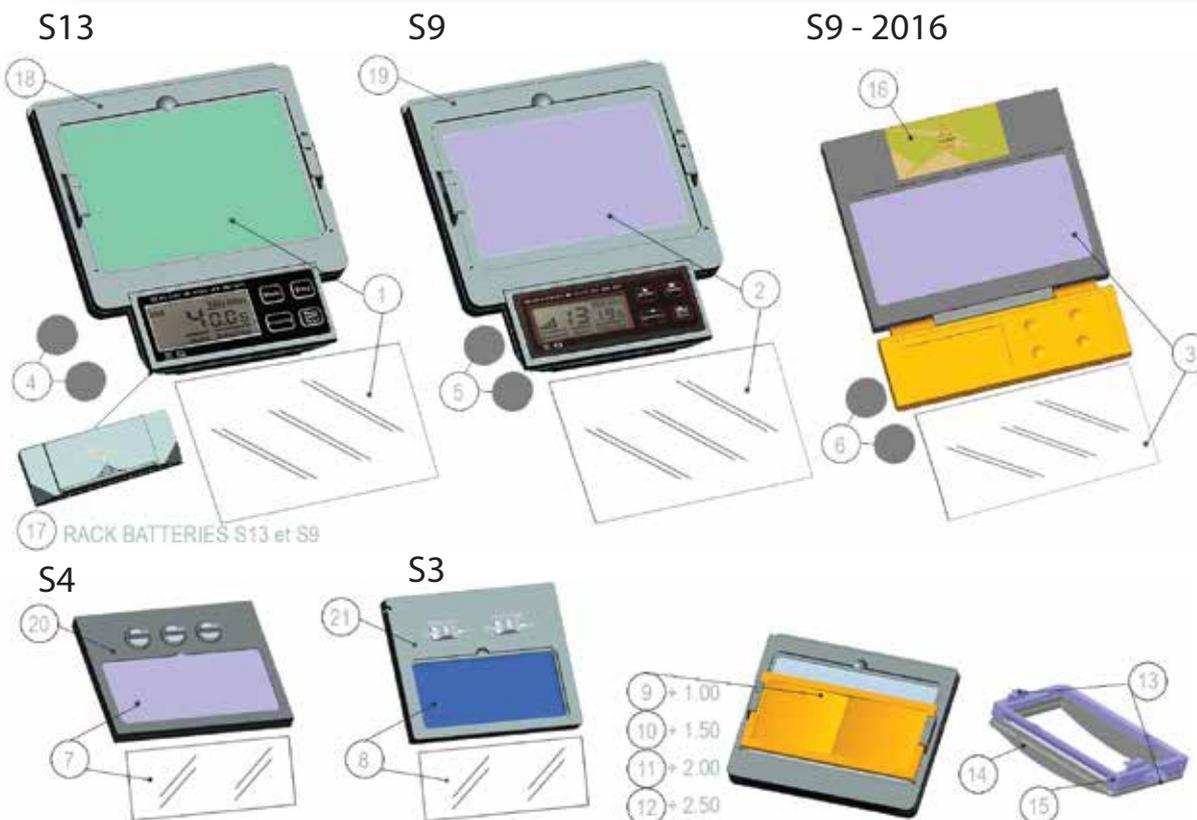
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2	AX 1097
3	AX 1101
4	AX 1140
5	AX 3337
6	AX 3330

Navitek®



1	AX 4000
2	AX 3415
3	AX 1097
4	AX 1140
5	AX 1101
6	AX 3425
7	AX 1105
8	AX 3339
9	AX 3335
10	AX 3417
11	AX 3416

Cellules S



1	AX 2360
2	AX 2260
3	AX 2260
4	AX 2715
5	AX 2715
6	AX 2710
7	AX 2250
8	AX 2330
9	AX 2510
10	AX 2515
11	AX 2520
12	AX 2525
13	AX 3061
14	AX 3069
15	AX 3060
16	AX 2711
17	AX 2720
18	FI 00S13
19	FI 00S9
20	FI 00S4
21	FI 00S3

Airkos®



Item Numbers

1	CR 7050
2	CR 7060
3	CR 7020
4	CR 7021
5	CR 7022
6	CR 7023
7	CR 7001
8	CR 7002
9	CR 7010
10	CR 7012
11	CR7030
12	CR 7025
13	AX 1101
14	CR 7080
15	CR 7000
16	CR 7083
17	CR 7070
18	CR 7003
19	CR7089
20	CR 7090

Shock



1	KS 9010
2	KS 9020
3	KS 9030
4	KS 9040
5	KS 9050



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