



The Orion Pulse 200i

Orion Dental Lab Welders are made for the modern Dental Lab. The Orion provides efficient time saving functions at an affordable price. The 200i is capable of welding contacts, repairing bridges, adding margins, fixing holes, and more. Orion's stereo microscope not only provides a clear, unobstructed view of the work piece, but also a built in flash-protection shutter that closes each time a weld is made. When using the microscope, the welder operates much like a laser, giving precise and intricate welds and less expense.

Orion Pulse 200i

Intelligent Welding™

The Orion Pulse 200i is the most advanced micro pulse-arc welding system available on the market today and features newly developed Intelligent Welding™ technology.

The Intelligent Welding™ technology simplifies the welding process by automatically adjusting weld settings for any metal or application. In addition, the new Orion Pulse 200i will allow users to experience interactive touch screen navigation, high-frequency agitation for difficult metals like palladium, adaptive weld ignition for longer electrode life, a new rapid fire setting for laser like welding speed, and more.

The Orion Pulse 200i utilizes two different welding technologies – pulse arc and resistance.

The Tack Mode uses resistance welding technology with up to 200 watt-seconds of energy. This mode is perfect for temporary placement or permanent fusion welding. The Pulse Arc Mode uses pulse-arc welding technology and consists of three distinct energy ranges – Ultra, Micro, and a new range – Nano.

The Ultra energy range uses up to 200 joules of energy for projects that require deeper penetration or a larger spot size. The Micro energy range uses up to 30 joules of energy and is perfect for moderate penetration on delicate pieces. The Nano energy range is a new weld setting that offers extremely precise weld energy control from 0.05 – 5 joules of energy, perfect for very fine applications. By using the Orion's weld modes and energy ranges together users can experience the most versatile and complete welding system available.

The new interface of the Orion Pulse 200i incorporates many innovative ideas to enhance and simplify the welding process. The Orion's proprietary MyWeld™ Management Interface is displayed on a 9 inch color touch screen that is conveniently mounted to the microscope. The operator has a one-touch access to every weld parameter. In addition, the MyWeld™ menu configures enhanced weld presets based on the metal type. Users can select the metal they are working with, and the MyWeld™ software will automatically adjust the various parameters to deliver the ideal weld settings. Once the Orion has set the various parameters all the operator needs to do is determine what energy (power) setting to use. The Orion will assist with the energy selection by displaying the approximate weld spot size and penetration depth on the screen. In addition, the Orion Pulse 200i has advanced interactive help menus and videos.

The Orion Pulse 200i is designed to save space. Compared to other bulky welding technologies, the innovative Orion Pulse 200i is compact. The new 3D microscope flex arm will allow users to move the Orion when not in use and maximize bench space.

The Orion Pulse 200i will never be obsolete. The unit can be upgraded as any future improvements or soft ware are developed,



MAJAC MEDICAL PRODUCTS

TELEPHONE: 1300 138 578 FACSIMILE: 1300 138 612

www.majacmedical.com.au E-Mail: sales@majacmedical.com.au



Orion Pulse 200i Dental Device Welding Applications:

Fix Warped Bridges with One Weld	Weld Broken Clasps and Partial
Bridge Repairs	Gold Crown Contact
Fill Holes in Copings	Implant Bar Welding
Adding Material to a Bridge	Welding Retainers
Orthodontics Welding	Setup and Getting Started Videos

The above listed applications have instruction video available for viewing

<http://www.oriondentalwelders.com/dental-welder-videos-pulse.php>

High-Tech - Easy to Use

The Orion 200i Dental Welder is a high-tech, high-precision welding machine designed for the modern dental lab. The Sunstone Technology means the welder can be up and running within minutes. Advanced users can customize every aspect of the Orion welder to fit their preferences.

- **High-Tech - Intelligent Welding** – The Orion has two internal micro-processors that control every aspect of welder operation. This allows the user to focus on productivity while the Orion ensures repeatable and safe operation.
- **Customizable Weld Settings** - Once the ideal setting has been found it can be saved and recalled when required. Each memory location can have a custom name applied and can be recalled at the touch of a button. Settings can be locked to prevent them from being accidentally deleted or erased.
- **Completely Customizable** - Practically every aspect of the welder can be customized. Changes include gas timing, welding tip retract properties, power adjustment steps, screen contrast, pre-flow gas accelerator properties, and much more.
- **Weld Accelerator** - By using the Orion pre-flow welding gas accelerator welds can be accomplished rapidly. The pre-flow accelerator sends a longer shielding gas pulse for the first weld; subsequent welds then require less gas pre-flow time to achieve proper weld shielding. This method allows clean welds in quick succession.
- **The only 4-in-1 Dental Welder** - The Orion literally contains 4 different welders in one box. Change between pulse arc, micro-pulse arc, nano-pulse arc and spot weld modes with the touch of one button.
- **Gas flow rate monitoring** - The weld shielding gas (argon) helps protect the molten metal from oxygen, which causes brittle welds and porosity. The Orion's computer detects the presence of shielding gas and displays the gas flow rate.
- **Lens shutter system** - The Orion's microscope shutter system allows for a clear view of the work piece before and after the weld. *The Orion monitors the microscope shutter to ensure the user's eyes are always protected from the welding flash.*
- **Easy to Use - Large Touch Screen Interface** - The Orion's large touch screen interface offers one-touch access to every welding parameter.
- **New MyWeld Management Software** - This new technology simplifies the welding process by automatically adjusting weld settings based on metal type. Simply choose your metal type, select the weld energy, and start welding.
- **Automatic and Foot Weld Triggering** - The Orion Welder allows the user to choose how they wish to start the welding process. In automatic mode the user touches the electrode to the work-piece to start the welding process. The welder will release welding gas, give an audible weld signal and then make the weld without the user performing any further action. In foot pedal mode the user can place the electrode very carefully before initiating the welding process.
- **On-screen Tutorials** - The new 'Tutorials' Tab on the Pulse 200i offers tip and tricks for new and advanced users. These tutorials have been designed to help users gain experience with every aspect of the Orion welder.
- **Help Menu** - The Orion 200i Dental Welder contains a help menu to instruct users in welder operation and menu functions..



MAJAC MEDICAL PRODUCTS

TELEPHONE: 1300 138 578 FACSIMILE: 1300 138 612

www.majacmedical.com.au E-Mail: sales@majacmedical.com.au





The Orion Pulse 200i

Dental Device Welding Applications:



NEW One-Weld Warp Repair



Bridge Repairs 2

NEW Clasp Repair and Partials



Gold Crown Contact

Bridge Repairs 1



Fill Holes in Copings



Implant Bar Welding



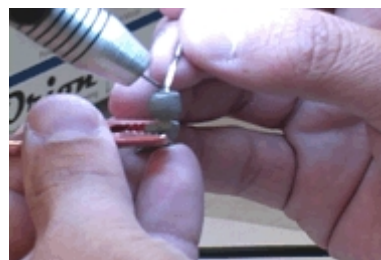
Adding Material to a Bridge



Welding Retainers



Orthodontics Welding



Orion Pulse Electrode Maintenance



Orion Pulse Argon Setup



The above listed applications have instruction videos available for viewing
<http://www.oriondentalwelders.com/dental-welder-videos-pulse.php>



MAJAC MEDICAL PRODUCTS

TELEPHONE: 1300 138 578 FACSIMILE: 1300 138 612

www.majacmedical.com.au E-Mail: sales@majacmedical.com.au



Accessories:



Argon Gas Regulator

Argon Gas Regulator



Spot Mode Tweezer Hand Attachment

Tweezer hand attachment for resistance welding



1.0mm Tungsten Electrode Tips

15 Tungsten Electrodes
2 1/3 inches In Length



0.5mm Tungsten Electrode Tips

15 Tungsten Electrodes
2 1/3 inches In Length



1.0mm & 0.5mm Tungsten Electrode Tip Package

10 - 1.0mm Tungsten Electrodes
10 - 0.5mm Tungsten Electrodes
2 1/3 inches In Length



Diamond Dremel Disks (5-pack)

For Shaping Tungsten Electrodes



MAJAC MEDICAL PRODUCTS

TELEPHONE: 1300 138 578 FACSIMILE: 1300 138 612

www.majacmedical.com.au E-Mail: sales@majacmedical.com.au

