THE DISPLAY CHOICE OF PROFESSIONALS™

Displays for Dental Environments
Dentists are taking advantage of the latest digital technology to advance dental care and patient education. With the help of AG Neovo displays, dental healthcare professionals worldwide are creating friendlier and more efficient dental environments.
What Makes AG Neovo Displays Great for Dentistry?

The ability to create and store dental images on-demand, and then share this digital information with patients is changing the face of dentistry. AG Neovo displays are designed specifically to integrate with the latest digital technologies, allowing dentists to provide patient education and entertainment throughout the office.

Best-in-Class Glass Protection

In demanding dental environments, there is no better display protection than NeoV™ Optical Glass. Scratch, water and impact resistant, NeoV™ Optical Glass protects the panel from repetitive touching or incidental accidents. Featured on a number of environment-specific AG Neovo displays, NeoV™ Optical Glass provides dental professionals with the confidence to bring displays into treatment rooms, multi-user waiting rooms and laboratories.

Designed for a Lifetime

Using the highest quality components and materials, AG Neovo displays are designed for a lifetime of performance. The typical lifetime of an AG Neovo display is 50,000 hours — that’s over 31 years of performance in a clinic’s administration offices or treatment rooms. And with timeless, award-winning design, an AG Neovo display will maintain its modern look for just as long.

So Much More than a Monitor

Dental professionals don’t just look at AG Neovo displays, they work with them. That’s why AG Neovo displays offer durable metal casing and proprietary hard glass protection allowing for easy and safe sterilisation between patients. With a wealth of video inputs, AG Neovo displays integrate effortlessly with dental-specific IT systems. Free from the constraints of desktops and computers, AG Neovo displays are helping dental healthcare specialists provide the best treatments possible.
AG Neovo offers a comprehensive range of displays designed specifically for the demands of modern dental environments.

The Treatment Room
With the help of DR-Series displays, dentists can immediately display a 3D image of a damaged tooth. This allows the dentist to discuss the restoration with the patient sitting in the chair.

The Lab
Available in black and white, the X-Series offers a high resolution rendering detailed images, X-rays and 3D graphics critical for successful diagnosis and treatment.

The Office
Whether the dentist is sharing patient files with colleagues throughout the dental clinic or with other specialists, the X-Series delivers years of high-performance dental imaging.

The Consultation Room
While discussing various treatments, dentists educate patients with “before and after” images interactively on TX-Series displays to illustrate what their teeth will look like after a required procedure.

The Waiting Room
RX-Series displays help create enjoyable waiting environments to improve patient experience. Patients can watch educational or entertainment videos more comfortably on large-sized displays.
Take a look at how one Vancouver dental clinic is reaping the benefits of new digital technology with the help of AG Neovo displays.

Dr. Peter H. Andrews & Park Place Dental, Vancouver Canada

A Dentist’s Dream

After over 40 years practising general dentistry, Dr. Peter H. Andrews of Vancouver, BC Canada more than earned a relaxing retirement. But in 2009, even at the age of 71, he wasn’t quite ready to take a break. In recent years, new technologies had made remarkably quick inroads into dentistry, making it an exciting time for practitioners. Dr. Andrews wasn’t going to watch from the sidelines.

He rented a new space in the same building and invested a million dollars to open Park Place Dental, one of the most advanced general dentistry practices in British Columbia. Park Place Dental is, in a way, Dr. Andrew’s dream practice, his practice philosophy made possible through the latest technologies—one that would only be complete with AG Neovo Displays.

The Environment - A Dental Office of a Different Mold

Dr. Andrews’ practice philosophy is one of an open, relaxed atmosphere with patient-focused design. Rather than small enclosed cubicles, his primary workplaces are larger than standard size and have no enclosing walls, relying instead on cabinetry and built-in structures to create visual breaks. Since his new office is below ground level, he has 4x6 foot LED back-lit virtual “windows” displaying high resolution transparencies of Vancouver scenery. Combined with bright lighting, soft ivory-coloured walls and minimalist decor, the open plan design creates a more relaxed atmosphere for patients and staff.

Just a few years ago, however, this type of design would have been difficult to pull off while maintaining an efficient, well run office. But with advances in technologies and industry practices, Dr. Andrews was able to pick equipment to suit how he wanted to work—not the other way around.
The Opportunity - Dental Equipment on Display

Dr. Andrews practises a rear delivery system, which keeps intimidating-looking equipment and tools behind patients and out of their sightlines. However, he does believe patients should see the work he is doing. That’s why he invested in advanced digital imaging equipment such as high resolution intraoral cameras to capture and display live images, and a state-of-the-art panoramic X-Ray System that enables nearly instantaneous scan results.

But while the computers running the equipment and system could be safely stored away, the display solution needed to be much more robust. Dr. Andrews wanted two displays in each operatory: one mounted on the rear cabinet for staff viewing; and one mounted on a side wall to an 8-foot extendable arm for patient viewing. The displays would be exposed in the operatory among sharp-edged tools, curious patients and busy staff. Unfortunately, Dr. Andrews could not find a display with the right mix of features required in a professional dental office, the durability to last in an active working environment, and the stylish aesthetics to match the office’s modern design. That is, until he learnt of AG Neovo DR-Series displays.

“When I first saw the AG Neovo displays I wanted them because they matched the office’s off-white and platinum colour scheme. But when I learned about the NeoVTM Optical glass, I knew these were exactly the displays I wanted.”

Dr. Andrews

The Solution - Designed for the Perfect Fit

After years of working with film X-Rays, Dr. Andrews knows the value of visual aids, as well as the effectiveness of something as simple as marking, circling or highlighting specific areas, in helping better communicate with patients. With industry-leading NeoV™ Optical Glass protection, the DR-17s allow Dr. Andrews to not only pull up x-ray scans on a bright, 1280 x 1024 resolution screen, but also draw directly on the display screen using a dry erase marker. When finished, he simply wipes off the writing and disinfects the display, leaving no damage to the panel. Rick Miller of System Integrator Patterson Dental also quickly warmed to the displays. In addition to a medical grade DC 24-volt power supply, the DR-17s have the full range of video connections, including analogue, digital, S-Video and CVBS, that make integration nearly as simple as plug and play. “The AG Neovo DR-17s are so easy to use,” says Miller. “They connect to everything.”

The DR-17’s strong metal frame also alleviates any worries about the stress placed on the display from mounting. When staff is moving equipment around, the DR-17’s durability prevents accidental bumps from turning into costly replacements. And to make positioning easier, the DR-17s are also available with a display handle.

Most importantly, the DR-17’s award-winning, sleek and modern design are a perfect match for the office. Dr. Andrews couldn’t agree more: “The displays work seamlessly in the system, the image quality is spectacular and the design is just perfect.”

The Result - An Office to Smile About

Park Place Dental officially opened on December 1st 2009. The front and entrance is complete floor-to-ceiling glass that allows passersby a peek into a bright, smartly-designed space. Inside, staff easily move about and can cart equipment around with minimal hassle thanks to the open plan design. The architectural build, two-tone colour scheme with blue accents, and minimalist decor make the entire office feel like a finely-tuned, finely-finished professional environment.

Patients and staff response has been phenomenal. The new equipment has significantly improved quality and speed of work, as well as improved doctor-patient dynamic. Dr. Andrews is extremely satisfied and proud of his new office.

“Park Place Dental was built for myself and designed the way I always wanted a modern dental practice to be,” he says. “If only I were thirty years younger.”
AG Neovo Displays for Dental Environments

Whether it is a treatment room, waiting room, or an advanced medical laboratory, AG Neovo displays are created to meet the needs of professional dental healthcare environments.

DR-Series Displays

Expressly designed for the well-equipped dental office, the DR-17P is a versatile, high resolution display featuring the specified DC 24 V medical grade power supply essential for dental applications to safely stabilise the electric current especially under wet-area operating room environments. Rugged NeoV™ Optical Glass protects the display against incidental damage and, most importantly, allows for easy clean, safe sanitization and thorough disinfection between patients.

- NeoV™ Optical Glass
- Durable metal casing
- S-Video, CVBS, analogue, digital inputs
- DC 24V medical power supply
- EN60601-1 and IEC60601-1 medical certification
- Illuminator Mode for easy X-ray film viewing
- Optional handle allows for easy movement of display
- Equipotential Terminal safety standard

AG Neovo Displays for Dental Environments
NeoV™ Optical Glass is a specially formulated, hardened optical glass – with proprietary multilayer coating – to enhance image quality, and protect screen from incidental or repetitive touching while allowing for easy and safe disinfection between patients in healthcare and dental clinic environments.

**NeoV™ Optical Glass**

The most advanced and trusted hard glass protection available.

NeoV™ Optical Glass

**Advantages of NeoV™ Optical Glass**

- **Anti-Scratch Surface**
  - Provides unparalleled resistance to scratches; the coated surface of NeoV™ Optical Glass reaches 9H, the highest grade on the pencil hardness scale.

- **High Transmittance**
  - Provides near perfect panel brightness with a 97.7% transmittance rate, compared to an average 91% transmittance rate for competitors’ products.

- **Anti-Reflection**
  - Effectively decreases glare and reflection; results in 77.3% visual improvement over standard glass and improved viewing comfort.

- **High Impact Resistance**
  - Prevent panels from physical damage caused by accidental crash; resist force up to 227g steel ball free-falling from a height of 200cm.

- **Water and Dust Resistance**
  - Protect panels from dust and water; prolong displays life performance in dusty and damp environments.

- **Maintenance Made Easy**
  - Easily cleaned and disinfected with water, alcohol and other common cleaning solutions due to high resistance towards abrasion, acid and alkali.
AG Neovo incorporates an advanced image processing technology into the displays to fulfill the demand of professional dental healthcare environments for mega-pixel resolution image quality and flexible image viewer options.

**Advanced Image Platform™**

**Cutting-edge image processing technology for image optimisation.**

**Built-in Image Enhancer**

Featuring 3D comb filter, 3D Deinterlace and Noise Reduction to solve image issues — offering abundant clarity to the demanding dental environments.

- **3D Comb Filter** Resolves cross colouring and dot crawl in high bandwidth transmission.
  - Without 3D Comb Filter
  - With 3D Comb Filter

- **3D Deinterlace** Prevents image aliasing issues such as blurring and flickering.
  - Without 3D Deinterlace
  - With 3D Deinterlace

- **Noise Reduction** Reduces signal instability and disturbance, providing crystal clear image.
  - Without Noise Reduction
  - With Noise Reduction

**Smart Omni Viewer**

Featuring flexible viewing options to allow patients to watch educational and entertainment videos while being examined.

- **PIP** Inset window display sub-screen alongside the main displays.
  - PIP Off
  - PIP On

- **PBP** Allows the simultaneous images in split-screen format.
  - PBP Off
  - PBP On

- **PIP Swap** Allows the swapping of main screen image and sub-screen image.
  - PIP Off
  - Swap Applied

**Displays for Dental Environments**

**Built-in Image Enhancer**

Featuring advanced technology to ensure image quality and flexibility.

- **3D Comb Filter** for cross colouring and dot crawl resolution.
- **3D Deinterlace** to prevent aliasing issues.
- **Noise Reduction** for signal stability and clear images.

**Smart Omni Viewer**

Offering flexible viewing options, allowing patients to watch videos while examined.

- **PIP** for inset window display.
- **PBP** for split-screen format.
- **PIP Swap** for image swapping.

**Advanced Image Platform™**

Cutting-edge technology designed for demanding dental environments.
Displays for Dental Environments

Multiple benefits allow for a seamless integration—and transition—into the modern dental environment.

Multiple Video Inputs
Digital imaging equipment connects directly with the DR-17P through S-Video, CVBS, analogue and DVI input options eliminating the need of a chair-side computer.

Illuminator Mode
This newly added strength, which readily doubles as an easy X-ray film viewer, will further facilitate the communication between the dentist and patients by presenting the intraoral images displayed vividly before them. Simple but versatile, the DR-17P is the very display crafted exclusively for the dental clinics.

*To make things even easier, an X-ray film positioner is supplemented to help the dentist with film placing on the screen in no time.

5 Meter Power Cord with Adaptor
A 5 meter DC power cord provides freedom of installation and easy relocation in dental environments. The DC 24 V medical grade power adaptor stabilises the electric current and sustains the transmission of electricity over longer distances between the display and outlet.

Medical Safety Certification
With DC 24 V medical grade power supply, equipotential terminal and more, DR-Series displays meet and exceed the strictest medical, safety and environmental standards. These include the EN60601-1 and IEC60601-1 medical certification, CE certification, as well as WEEE designation for eco-friendly product design.

Display Handle
An optional display handle allows for maneuvering and positioning the display for optimum viewing angles.
<table>
<thead>
<tr>
<th>Specifications</th>
<th>DR-17P</th>
<th>X-24</th>
<th>X-22</th>
<th>X-19</th>
<th>X-15</th>
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<tr>
<td>TFT Panel Size</td>
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<td>300 cd/m² (Typical)</td>
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<td>320 cd/m² (Typical)</td>
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<td>2,000,000:1 (DCR)</td>
<td>3000:1 (DCR)</td>
<td>5000:1 (DCR)</td>
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<tr>
<td>Viewing Angle (H/V)</td>
<td>170°/160° (Typical)</td>
<td>170°/160° (Typical)</td>
<td>170°/160° (Typical)</td>
<td>170°/160° (Typical)</td>
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<td>16.7M</td>
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<td>Built-in Speakers</td>
<td>1.5W x 2</td>
<td>1.5W x 2</td>
<td>1.5W x 2</td>
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<td>489 x 348 x 175mm</td>
<td>562 x 397 x 155mm</td>
<td>513 x 369 x 155mm</td>
<td>444 x 397 x 155mm</td>
<td>444 x 397 x 155mm</td>
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<td>With Base (W x H x D)</td>
<td>(19.1&quot; x 15.7&quot; x 6.9&quot;)</td>
<td>(22.1&quot; x 15.6&quot; x 6.1&quot;)</td>
<td>(20.2&quot; x 14.5&quot; x 6.1&quot;)</td>
<td>(17.5&quot; x 16.5&quot; x 6.9&quot;)</td>
<td>(17.5&quot; x 16.5&quot; x 6.9&quot;)</td>
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<td>VESA Arm/Wall Mounting</td>
<td>454 x 304mm &amp; 75 x 75mm</td>
<td>508 x 304mm &amp; 75 x 75mm</td>
<td>508 x 304mm &amp; 75 x 75mm</td>
<td>508 x 304mm &amp; 75 x 75mm</td>
<td>508 x 304mm &amp; 75 x 75mm</td>
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<td>Glass Type</td>
<td>NeoV™ Optical Glass</td>
<td>NeoV™ Optical Glass</td>
<td>NeoV™ Optical Glass</td>
<td>NeoV™ Optical Glass</td>
<td>NeoV™ Optical Glass</td>
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<tr>
<td>Unique Features</td>
<td>Illuminator Mode, Advanced Image Platform®, Excellent sensor, EVGA™-1, IEC60601-1, Equipotential Terminal</td>
<td>Advanced Image Platform®, Excellent sensor, Black-level alignment</td>
<td>Advanced Image Platform®, Excellent sensor, Black-level alignment</td>
<td>Video Mode</td>
<td>Video Mode</td>
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<td>Remarks</td>
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All specifications are subject to change without prior notice.
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<tr>
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<th>RX-32</th>
<th>TX-42</th>
<th>TX-32</th>
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<tr>
<td><strong>TFT Panel Size</strong></td>
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<td>31.5&quot; (MVA panel)</td>
<td>42&quot; (IPS panel)</td>
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<td>350 cd/m² (Typical)</td>
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<td><strong>Viewing Angle (H/V)</strong></td>
<td>178°/178° (Typical)</td>
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<td>16.7M</td>
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<td>6.5ms (GTG)</td>
<td>6ms (GTG)</td>
<td>6.5ms (GTG)</td>
<td>7ms (GTG)</td>
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<td>H: 30kHz – 75kHz / V: 50Hz – 75Hz</td>
<td>H: 30kHz – 75kHz / V: 50Hz – 75Hz</td>
<td>H: 30kHz – 75kHz / V: 50Hz – 75Hz</td>
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<td>Analogue in/out, Digital in/out, HDMI x 2, BNC in/out, D-Sub, Component, DisplayPort, Audio, RS-232 in/out, RJ-45</td>
<td>Analogue in/out, Digital in/out, HDMI x 2, BNC in/out, D-Sub, Component, DisplayPort, Audio, RS-232 in/out, RJ-45</td>
<td>Analogue in/out, Digital in/out, HDMI x 2, BNC in/out, D-Sub, Component, DisplayPort, Audio, RS-232 in/out, RJ-45</td>
<td>Analogue, Digital, RJ1</td>
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<td>12W x 2</td>
<td>10W x 2</td>
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<td>980 x 574 x 125mm</td>
<td>757 x 451 x 95mm</td>
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<td>528 x 347 x 214mm</td>
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<td>Clear Glass</td>
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<td>IR remote control, Exoswitch, Optional base, Available in black and white</td>
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<td>Optical touch technology, Support Microsoft® Windows® 7 and 8, 5-touch points, IR remote control, Exoswitch, Optional base, Available in black and white</td>
<td>Projected Capacitive Touch Technology, Support Microsoft® Windows® 7 and 8, Dual-touch points, Front-sided EIP4 rating</td>
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</table>
Global Headquarters
Taipei, Taiwan

EMEA Regional Headquarters
Capelle a/d Ijssel, The Netherlands

North & South America Regional Headquarters
San Jose, CA, U.S.A.

Asia-Pacific Regional Headquarters
Taipei, Taiwan

Argentina Sales Office
La Plata, Bs. As., Argentina

Canada Sales Office
Vancouver, B.C., Canada

China Sales Office
Shanghai, China

Czech Republic Sales Office
Brno, Czech Republic

Germany Sales Office
Brühl, Germany

Italy Sales Office
Livorno, Italy

Ukraine Sales Office
Lviv, Ukraine

Spain Sales Office
Barcelona, Spain

United Kingdom Sales Office
Wendover, United Kingdom

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