

PANASONIC AUDIO-VISUAL SYSTEMS FIRE THE IMAGINATION AT THE OLYMPIC WINTER GAMES PYEONGCHANG 2018

The Olympic Winter Games PyeongChang 2018 was staged February 9–25, 2018 in PyeongChang, Republic of Korea, under the theme "Passion. Connected."

Despite frigid conditions at the open-air PyeongChang Olympic Stadium during the Opening Ceremony, Panasonic stepped up with provision, setup, and operation of state-of-the-art audio-visual systems for the event. About 80 of Panasonic's 30,000-lumens-class laser projectors were installed, immersing a central stage and specially shaped slope with vivid and seamlessly blended images. Dynamic projection-mapped visuals captivated spectators and TV viewers alike, with high brightness and imaging technologies making the mesmerizing production possible. Fast-moving images flawlessly resolved in bright and vivid color.

In addition to its AV technology, Panasonic provided end-to-end support encompassing broadcast solutions while offering on-site support including installation, production, system operation, and on-site services. Together, challenges were met in partnership with the organizing committee.

PANASONIC AUDIO-VISUAL EQUIPMENT DEPLOYED



Projectors
al deployment: Approx. 230 projectors

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Professional Display

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oadcast and Professional Video System Multi-format Live Switchers 16 units Broadcast Cameras Approx. 50 units Professional Audio Systems
Deployed in 10 venues



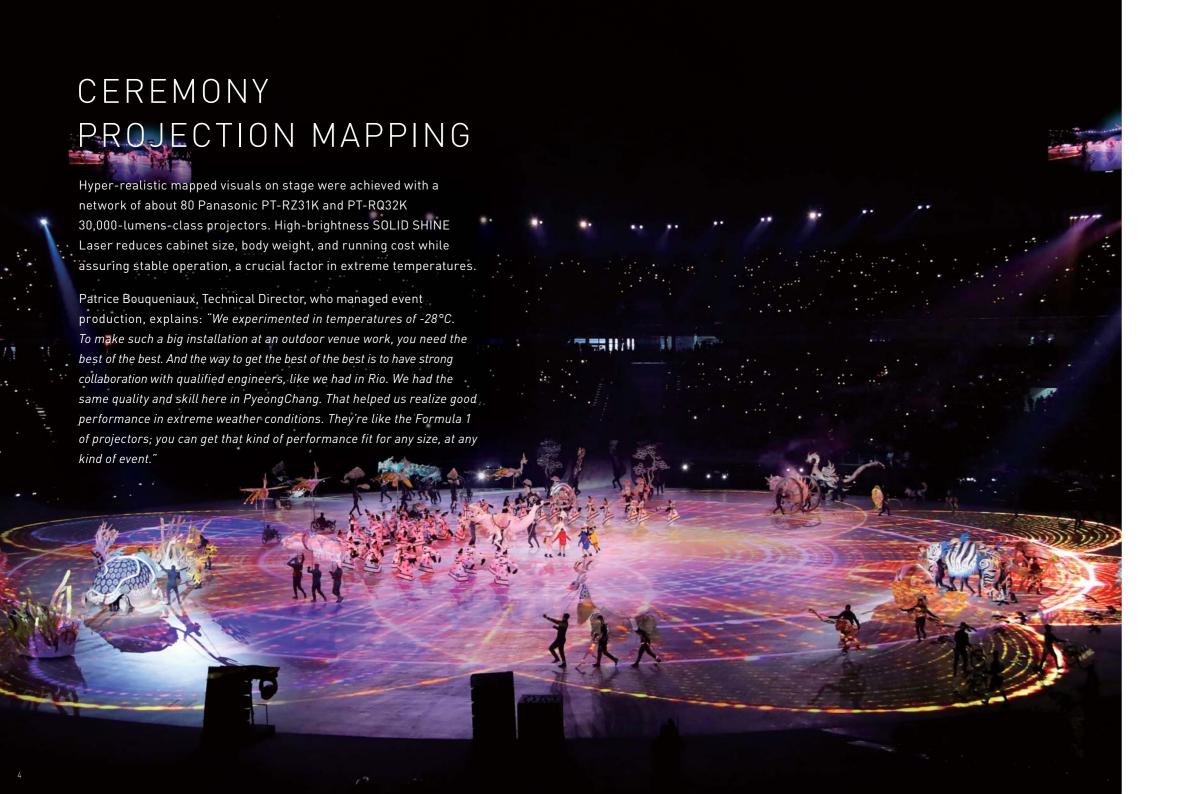


Promoting World Peace Through Sport

Ever since the Olympic Winter Games Calgary 1988, Panasonic has committed to the Olympic Spirit of promoting world peace through sport. As a proud tournament supporter for more than a quarter-century, Panasonic actively pursues its role as a Worldwide Olympic Partner. Exemplifying "Sharing the Passion," Panasonic helped bring the excitement of the Olympic Games to the world, uniting people from all cultures and backgrounds in a mutual love of sport

At the Opening Ceremony of the Olympic Winter Games PyeongChang 2018, Panasonic helped create a vibrant performance with its high-brightness projectors. Not only supplying equipment, Panasonic also contributed support teams covering operation and maintenance of equipment throughout the event Across venues, its LED displays, RAMSA speakers, and broadcast systems amplified excitement for athletes and spectators.

Following the Opening Ceremony, IOC (International Olympic Committee) President
Thomas Bach affirmed Panasonic's key role at the Olympic Games, saying,
"The partnership with Panasonic is an extremely powerful and successful one.
Panasonic technology played an important role and made the crowd and the worldwide
audience excited. Panasonic is for A Better Life and a Better World, and the IOC is for A
Better Life and a Better World through sport. And we think, on this basis, we can
together lead the Olympic movement to new heights."



Delivering Class-Beating Pictures in Extreme Conditions

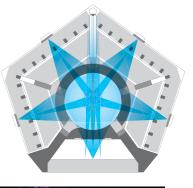
Panasonic combated extreme conditions with "cabin" structures built to protect projectors from freezing air, controlling potentially disastrous temperature fluctuations during projection at the Opening Ceremony, Closing Ceremony, and festivities on ice.





Engineered for Seamless Mapping

Projecting images across vast distances from around the pentagonal venue, Panasonic assured the success of each production with a variety of projection patterns under severe usage conditions.









OPENING CEREMONY [The Olympic Winter Games PyeongChang 2018]

Panasonic Sets Peace in Motion

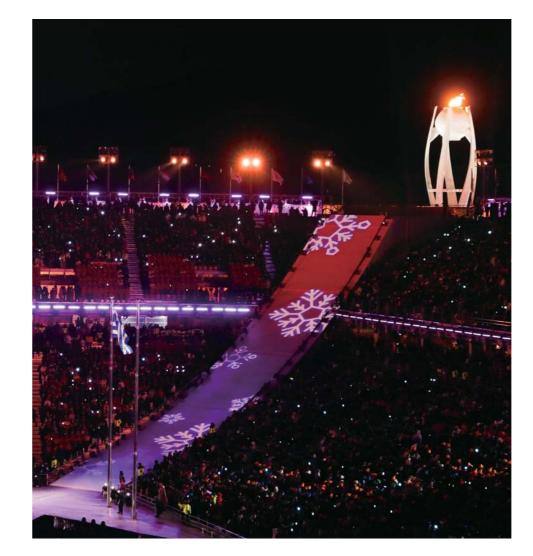
The Opening Ceremony, titled "Peace in Motion," began with the ringing of a nine-meter-high Bell of Peace in the pentagonal PyeongChang Olympic Stadium. Children appeared and took the audience on a journey through the past, present, and future under the gaze of PyeongChang 2018 mascot Soohorang, a white tiger. White tigers have long been considered guardian talismans in Korean culture. PT-RZ31K and PT-RQ32K units deployed around the arena brought the creative concept to life, with immense brightness and high resolution giving substance to the awe-inspiring sculptures of light. Every projector worked faultlessly throughout the event as the world looked on at the unfolding spectacle.











CLOSING CEREMONY [The Olympic Winter Games PyeongChang 2018]

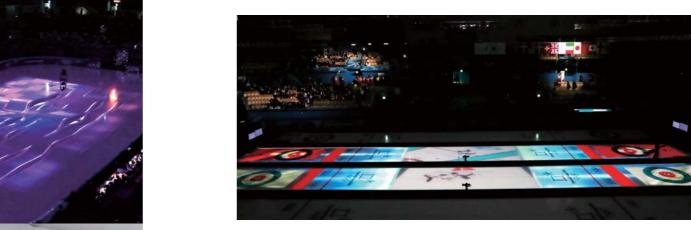
Panasonic Breathes Life Into a Shared Creative Vision

After 17 days of intense competition, the Closing Ceremony told the story of "The Next Wave," which emphasized "the human spirit of perseverance." Another memorable Olympic Winter Games was coming to an end, but not before the Olympic message of peace was written large in the night sky over PyeongChang and around the world. Fireworks played in and around projection-mapped images and lighting effects above the athletes, support staff, volunteers, spectators, and TV viewers united in the moment.



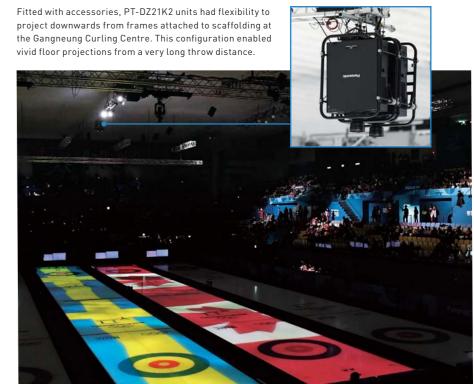






With quad-lamp system assuring effective backup and guaranteed image display together with excellent native contrast and color, the PT-DZ21K2 units turned ice to fire at the Gangneung Curling Centre.











Panasonic has the edge for outdoor applications as proven by the exemplary performance of its TH-47LFX60 at ski venues including the Alpensia Cross-Country Skiing Centre.



TH-47LFX60 displays information with IPS panel for wide-angle visibility at the Olympic Sliding Center.



Viewers were kept up to speed at the Phoenix Snow Park courtesy of Panasonic professional outdoor displays.









A variety of professional video systems installed at the Gangneung Curling Centre facilitated smooth and professional broadcasting.









PROFESSIONAL AUDIO SYSTEMS AT COMPETITION VENUES

The RAMSA audio system was developed specifically for the Olympic Games. Its durable design withstands severe conditions such as strong wind or low temperature. Whether installed far away or nearby the listener, RAMSA delivers a more uniform sound level than conventional speakers. RAMSA next-generation line-array speakers debuted at PyeongChang 2018 with improved clarity and higher power, ramping up the excitement at venues including the Alpensia Ski Jumping Centre, YongPyong Alpine Centre, Gangneung Olympic Park, and in particular, Phoenix Snow Park.

John Paul Giancarlo, Associate Director of Games
Technology & Energy (IOC)*, commented: "We had all the
extreme sports, such as half-pipe, slope-style, and aerials
at the Phoenix Snow Park, and it's all-new RAMSA
equipment installed there. It's really a show, and we wanted
to create an almost rock 'n' roll youth environment. Having
Panasonic RAMSA equipment there just gives a fantastic
sound and environment for people to take away."
*International Olympic Committee.

RAMSA speaker at the Phoenix Snow Park.



With conventional speakers, sound suffers from attenuation: it weakens with distance. Line-array systems minimized this attenuation so that all spectators in vast Olympic Games venues could enjoy the clear, high-quality sound regardless of seating.











SUPPORT FACILITIES

PANASONIC OPERATION SUPPORT

■ INTERNATIONAL BROADCAST CENTRE (IBC)

IBC served as the base for the press and broadcast media covering PyeongChang 2018. Inside the venue, NHK and Olympic Broadcasting Services (0BS) collaborated to create an 8K theater using four Panasonic PT-RQ32K 4K+ projectors. The installation proved a breathtaking forum from which to view the events as they unfolded.





Residen







Supporting operation with various audio-visual equipment.

MAIN OPERATION CENTRE

Panasonic's dominance in the creation of seamlessly spectacular yet easy-to-install video walls is on record, yet the company continues to refine and improve its displays to provide even better performance. The Main Operation Centre at PyeongChang 2018 features 11 sets of four-panel video walls for monitoring, with the new TH-55VF1H chosen for its phenomenal detail and off-axis color accuracy and clear visibility thanks to Full HD IPS panel technology.



MAIN PRESS CENTRE





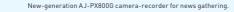
TH-55LFV70 video-wall displays x 9 units.

Light and compact AK-UB300 4K Multi-Purpose Camera.

OLYMPIC VILLAGE









(PT-DZ13K + ET-D75LE95) x 2 units.

OTHERS

■ TOKYO 2020 JAPAN HOUSE

A MESSAGE OF CHANGE FROM TOKYO 2020

TOKYO 2020 JAPAN HOUSE introduced the world to Olympic Games Tokyo 2020 and the attractions of its host city, including Japanese culture, cuisine, and natural beauty. Part of the exhibition within comprised Panasonic LF80 Series displays, while PT-DZ21K2 3-Chip DLP™ projectors paired with ET-D75LE95 ultra-short-throw lenses projected pictures taken in a booth onto a large screen to entertain visitors.

Director General (CEO) of Tokyo 2020 Organizing Committee, Mr. Toshiro Muto, has an even bigger vision for the approaching event. "Sport has the power to change the world and our future," he says. "We want Tokyo 2020 to be the most innovative and world-changing games ever. We hope that the Olympic and Paralympic Games will offer an opportunity for change, for a new era, to bring positive change to the world. We look forward to welcoming many people from around the globe to Tokyo and to the Games. And we hope they have an opportunity to come in contact with many aspects of our culture and art."





(PT-DZ21K2 + ET-D75LE95) x 2 units.

offer clean and simple presentation.

■ SLOVENIA HOUSE





Large and durable TH-98LQ70 4K professional displays x 2 units.

INSTALLED EQUIPMENT AT PYEONGCHANG 2018

3-Chip DLP™ Projectors (Laser Models)



PT-RQ32K PT-RZ31K





PT-RZ12K

Ultra-Short-Throw Lenses



ET-D75LE90/D75LE95

Note: For 3-Chip DLP™ Projectors

3-Chip DLP™ Projectors (Lamp Models)



PT-DZ21K2



PT-DZ13K

Full HD LCD Displays

1-Chip DLP™ Projector (Lamp Model)



SOLID SHING LASER



PT-DZ680

SOLD SHING LASER

Space Player



4K UHD LCD Display



TH-98LQ70

TH-70LF50 (Discontinued model)
[Standard]

Note: SF2H Series successor model also available.



TH-55LF80/49LF80/42LF80 [Standard]



TH-55VF1H/55LFV70 [Video Wall]



TH-47LFX60 [Outdoor Signage]

P2 Memory Card Camera Recorders



AJ-PX5000G



AJ-PX800G AJ-PX380G



AG-HPX610



Cinema Camera

AU-EVA1

LCD Monitor

Live Switchers



AV-HS6000



AV-HS450



P2 Memory Card Portable Recorder

AG-HPD24



BT-LH2170 [Discontinued model]

Speakers





2-Way Speaker



Line Array Speakers



Subwoofer

 $\ensuremath{^{*}}$ The availability of RAMSA varies depending on the country.

Note: Products featured here comprise just some of the Panasonic products used at PyeongChang 2018 only. Lineups do not represent the full Panasonic Audio-Visual Systems.