

Workflow

Green issues in Greenland



Environmental considerations forced Greenland's public broadcaster to relocate. **Philip Stevens** discovered what was involved in the move



The new KNR continuity playout centre in Greenland

Kalaallit Nunaata Radioa (KNR) is the national public broadcasting corporation of Greenland, based in the country's capital city, Nuuk. This independent state-owned corporation is responsible for broadcasting both radio and TV programmes. On the television side, about 700 hours of programmes are transmitted in the Greenlandic language (Kalaallisut) each year.

KNR's news departments in Nuuk, North Greenland, South Greenland and Copenhagen deliver news to the whole of Greenland in both

Greenlandic and Danish. "Broadcasting in Greenland is a big challenge," explains Jan Berg, KNR's head of TV and deputy director.

"KNR is a small public service station with around 90 employees and a yearly budget of DKK 67 million. That is not much to cover as great a country as Greenland. The distances are huge and

it is very expensive to travel since there is no road to connect the cities."

Greenland, which has a population of about 56,000, is the least densely populated country in the world. Despite the huge area, KNR radio and TV broadcasts reach each home.

"The government of Greenland also utilises the broadcast station services to further unify and connect the dispersed population, as well as to promulgate the Greenlandic language," states Berg.

Apart from the studio facility in Nuuk, KNR operates remote area offices which feed local stories and news via the internet. In addition, some larger towns have live feeds using Streambox encoders.

Health issues

The KNR broadcast operation was set up in 1958 in a building originally designed as a heliport for Air Greenland.

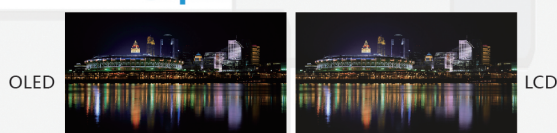
osee www.osee-dig.com
www.oseeamericas.com

Full HD XCM-250-OLED **Coming Soon**
1920x1080

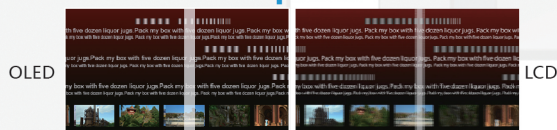
Excellent Color Precision



Superior Dark Details

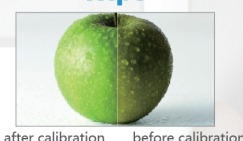


Fast Response Time



The XCM-250-OLED incorporates state of the art display technology that achieves richer black reproduction and eliminates any image retention artifacts. The display panel has industry standard 10-bit color depth with accuracy required for critical image evaluation.

Wipe



Blending



Luma Zone



BEIJING OSEE DIGITAL TECHNOLOGY LTD.

Add: No.22 Building, No.68 Zone, Beijing Road, Haidian District, Beijing 100094 China

Tel: +8610 6243 4168-8017

Fax: +8610 6243 4169

E-mail: sales@osee-dig.com

OSEE AMERICAS LTD.

Add: 43218 Christy St Fremont, CA 94538

Tel: +1-510-996-4499

Fax: +1-510-996-4492

Toll Free: 866-625-6106

E-mail: info@oseeamericas.com



Workflow



However, the combination of a building with an extensive steel construction and the extreme temperatures experienced in Nuuk, led to condensation and water drip problems. Over the long-term these created a build-up of unhealthy mildew and fungus, and meant that relocation was essential.

In September 2013, Danmon Systems Group was invited to visit KNR Greenland and consult on the relocation project. The move involved the entire TV and radio broadcast operation and 100 staff.

Defined goals

Danmon Systems Group project manager Jack Pfeiffer takes up the story. "The project goals and ambitions were well defined. First, to ensure KNR remained on-air during the move. Secondly, to move the radio and TV station in an efficient and cost effective manner. Lastly, to accommodate a future plan that may see KNR move again to

a new purpose-built facility in the coming three to four years."

Pfeiffer explains that the first requirement — staying on-air — provided the biggest challenge. "It was essential that the move, rewiring and post installation tests be performed without interrupting the normal daily schedule of live broadcasts. In close partnership with KNR, we were able to agree a work schedule which ensured that the network was able to maintain full-time on-air status. Despite the complexity of the operation, a closely monitored build schedule was achieved over nine weeks in two phases."

Phase one embraced the relocation of the radio studios, including three Studer On-Air 3000 desks, and installation of a new Ross digital audio router for transmission.

"Phase Two centred on moving the existing television facility, with its 20x20m, two set studio, gallery, audio production control rooms,

continuity playout master control room, plus the entire equipment room with 16 racks. All needed to be moved to the newly refurbished building."

The original studio control room included four PCs, five Sony CCUs, and four Avitech multiviewers that generated a considerable amount of heat and noise. It was decided that these should be moved into the CAR, with KVM extenders for the PCs and DVI optical extenders for the multiviewers.

The original time plan was optimistically scheduled for completion by the end of 2013. However, due to construction delays and scheduling needs, work was finished in May 2014.

The five existing Sony DXC-55 studio cameras with their Vinten pedestals and Sachtler tripods, together with Panasonic ENG P2 cameras were retained for the relocation.

Other equipment that made the move includes a PESA Cougar SDI-AES Router, a Soundcraft Series Five audio mixer, Chyron Duet and Title One graphics systems and the RTS Zeus Intercom with user panels and Telex BTR700 wireless.

Looking to the Arctic Games

What are the future plans for KNR? "I'm afraid the details are confidential," declares Berg. "But what I can say is that, of course, they do include migration to a tapeless workflow and possible support for HDTV broadcast. Our future projects include expanding our services, as well as supporting the 2016 Arctic Winter Games which will be hosted in Greenland." ■

SOFTWARE DEFINED TELEVISION

The days of proprietary broadcast hardware are over. Standardized software running on commodity IT equipment, in virtual machines or the cloud that's how it's done today.

Realize the operational and cost benefits of moving to software based solutions now with Cinegy software solutions for archive, editing, ingest, playout, production, monitoring, news, transcoding, and other workflows.

Scalable, affordable and quick to deploy.



Thousands of TV channels have done it.
More and more are joining us.
The future is software defined television.

Need more teasing: 4k, SDI-to-IP migration, streaming, multi-channel are already included with no extra cost.

Try before buy: download your trial version today!

For more information go to www.cinegy.com or call us now.
The Americas - call Cinegy USA: +1 202-621-2350
Europe, Middle East, Africa and Asia - call Cinegy Europe: +49-89-2388 5360

cinegy