

## CASE STUDY – Lao Cai Radio and TV Station



### **Danmon Systems Group announces the completion of a green-field broadcast centre for Lào Cai Radio & Television, Vietnam.**

Facilities at the new complex include a studio stage with a multi-tiered auditorium, a news studio, a multi-function studio, news production control suite, post-production suites and a continuity suite.

“The core of this project is in full 1080i high-definition,” explains Bjarne Pedersen, Systems Sales Director, Danmon Asia. “The station is designed and equipped to accept, store, post-produce and transmit content in any format and any aspect ratio. We have provided dedicated outputs for terrestrial and satellite delivery as well as streaming both via video-over-IP and to mobile viewing platforms. The new broadcast centre is equipped for live production as well as file-based editing, archiving and playout.

“Danmon Systems Group used Harris file-based video production system including Velocity craft editors and journalist proxy-file based editors and Harris playout servers. Miranda equipment was chosen for routing, graphics, multiviewers, on-air mixing and interfaces.”

"The studio stage and news studio are equipped with Canara studio lights and light-control plus Panasonic AK-HC3500 studio cameras on Miller wheeled tripods. The



cameras can be routed to EVS slow motion servers or direct to Ross vision mixers. Panasonic AG-HPX600 and AG-HPX250EJ P2 camcorders are used for electronic newsgathering.

Playout is controlled from the continuity suite which houses a Miranda transmission switcher, control system and monitoring. A Miranda Intuition graphics system is available in the production suites as well as in continuity. The central apparatus room is closely coupled to the continuity suite and master control room. It houses equipment mainframes, the Harris servers and Miranda glue. Wireless microphones systems are all Sennheiser. Audio monitoring in all production suites is via Genelec loudspeakers.

"In addition to designing and integrating the studio equipment, we provided a Screen Service 5 kilowatt VHF Band III dual cast television transmitter and an FG Wilson 550 kilowatt diesel-powered auxiliary power generator."

The entire system was prebuilt and tested at Danmon Systems premises in Denmark, before shipping and on-site integration. The project also included intensive training for operators, journalists and technicians. Lào Cai Radio and TV station went directly on-air after handover.

Lào Cai Radio & Television is based in the city of Lào Cai, capital of Lào Cai Province. The city is located in the northeast region of Vietnam near the border with the Yunnan province of southwest China.

Danmon Systems Group ([www.danmonsystems.com](http://www.danmonsystems.com)) is one of the world's most experienced providers of systems integration support to television and radio broadcasters, postproduction houses and professional audio studios, as well as the corporate, academic and government sectors.

Danmon Systems Group's fields of activity include every aspect of broadcast and electronic media technology, from consultancy to production and postproduction, transmission and archiving, encompassing video, audio, graphics, streaming, audio visual and multimedia applications.

Danmon Systems Group is part of Dan Technologies' Group, one of Europe's leading suppliers of audio, video, transmission products and digital media solutions.

The Dan Technologies Systems Integration Division covers a wide spectrum of operations ranging from designing, installing and commissioning studios, playout centres, news-rooms and satellite systems to providing the complete infrastructure of television and radio stations for major broadcasters and service providers worldwide. The Systems Integration Division operates internationally from offices in Scandinavia, Europe, the Middle East and Asia.