Medical conference between Buenos Aires and Istanbul with Analog Way's presentation mixers

Control in front of operation room #1 in Buenos Aires - Argentina

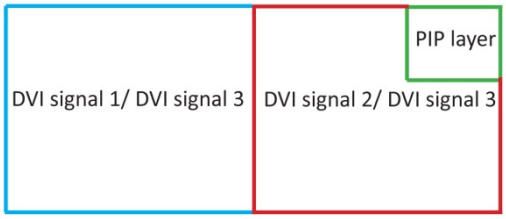
2MGNet provided the audiovisual system for a medical event that took place at the same time in Buenos Aires, Argentina and Istanbul, Turkey. In Istanbul, several physicians attended a conference on minimally invasive brain surgery. The conference focused on operations that were performed in Buenos Aires.

2MGNet had to set up a full audiovisual system to transmit via satellite the audio and video signals generated from various medical devices and monitors, through three independent SAT-Links. Amongst the video signals there were 4 x DVI, 1 x VGA and 3 x SDI signals. The objective was to obtain these video signals generated in Buenos Aires from their various sources, process them and route them onto the SAT-COM vehicle for outgoing transmission in Istanbul.
According to Nicholas Sterin, Project Manager at **2MGNet**: *"Providing clear and accurate imaging was key for this event, since all content transmitted was projected on a wide screen, so as to explain and teach medical procedures to a large number of people."*

At the "Sagrada Familia" health clinic of Buenos Aires, operations took place in two separated operating rooms (OR). There, **2MGNet** did a specific set-up for each room as outgoing signals were different from one room to another. OR#1 had four outgoing DVI signals from a split frame monitor and one SDI signal from camera covering all operations. OR#2 had one 3D DVI signal and two SDI signals.

To handle these different signals, **2MGNet** used one **Di-VentiX II (Ref. DVX8044)**, **Analog Way**'s Multi-Layer Hi-Resolution Mixer Seamless Switcher for OR#1. Two **Pulses (Ref. PLS300)**, **Analog Way**'s Dual Scaler Mixer Seamless Switcher, were used for OR#2.

In regards to OR#1, the request consisted in receiving and processing all the different signals, and arranging them into a two frame display - main video output - composed of two layers which divided the screen down the center. Moreover, an additional PIP layer would be positioned on the top right corner of the screen. Nicholas Sterin explains: *"The idea was to switch amongst the four incoming signals from the split frame monitors - 4 frames depicting several brain and vital signs images - so as to show two signals at a time. This, while always displaying live coverage from the camera (SD-TV / BNC Input)."*

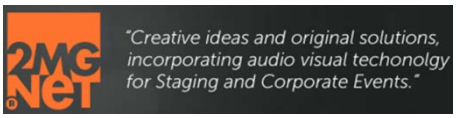


Configuration of the conference display

The **Di-VentiX II** was used in Mixer mode. Connected to the device there were four DVI sources plus one SDI source, signal was output in SDI (1080i). **2MGNet** used several features of the **Di-VentiX II** for the event including layer position and cropping: *"Apart from the configuration challenges which were easily solved by the **Di-VentiX II** capabilities, one particular advantage that the equipment provides is the layer cropping",* says Sterin. When first contacted by the coordinators on the "Turkey" side of the event, **2MGNet** was provided with one of the 4 frames depicted on the medical monitor from which there would be 4 x DVI signals received. Originated from a determined medical device, each frame was showing a high definition 3D image of every blood vessel in the brain, veins and arteries. Each of the four frames had a grey/white thick stripe with numerous data and parameters that was coming down along its side, and that needed to be removed. *"As we were asked to remove said stripes to send the video only, we used the **Di-VentiX II**'s layer adjust menu to zoom in the input and obtain the source with no stripe as required",* details Sterin.

Control for operation room #2

The two **Pulses** were used for OR#2, in order to achieve the same configuration display as OR#1. The only difference was in terms of signals as there were one 3D DVI, one analog video and one SD-TV from the live coverage for OR#2. Nicholas Sterin explains the configuration*: "In order to put all signals together as requested, we decided to merge one background layer and PIP layer into one of the **Pulse**'s main video output. Then, we sent the main video output into the second **Pulse**'s input."* Through this process, **2MGNet** achieved the same configuration as in OR#1. *"By mixing two video signals in the first **Pulse** and sending it to the other, we were able to insert the 3rd video signal as a PIP layer on the top right corner of the screen."*



2MGNET is a Rental & Staging company based in Buenos Aires, Argentina. It provides the integration of technologies in audio, video, control and lightning for events**.** Serving the corporate market, **2MGNet** remains an industry milestone and reference for other companies to follow. Through technological innovation and unparalleled service, they constantly exceed their client's needs and expectations.
For more information: http://www.2mg.net/

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Analog Way is a leading designer and manufacturer of presentation switchers and image converters.
The company designs a wide range of computer to video scan converters, scalers, seamless switchers and up/down converters. The products provide the most advanced solutions in the Broadcast, AV, Rental & Staging, Church, Corporate and Industrial markets.

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