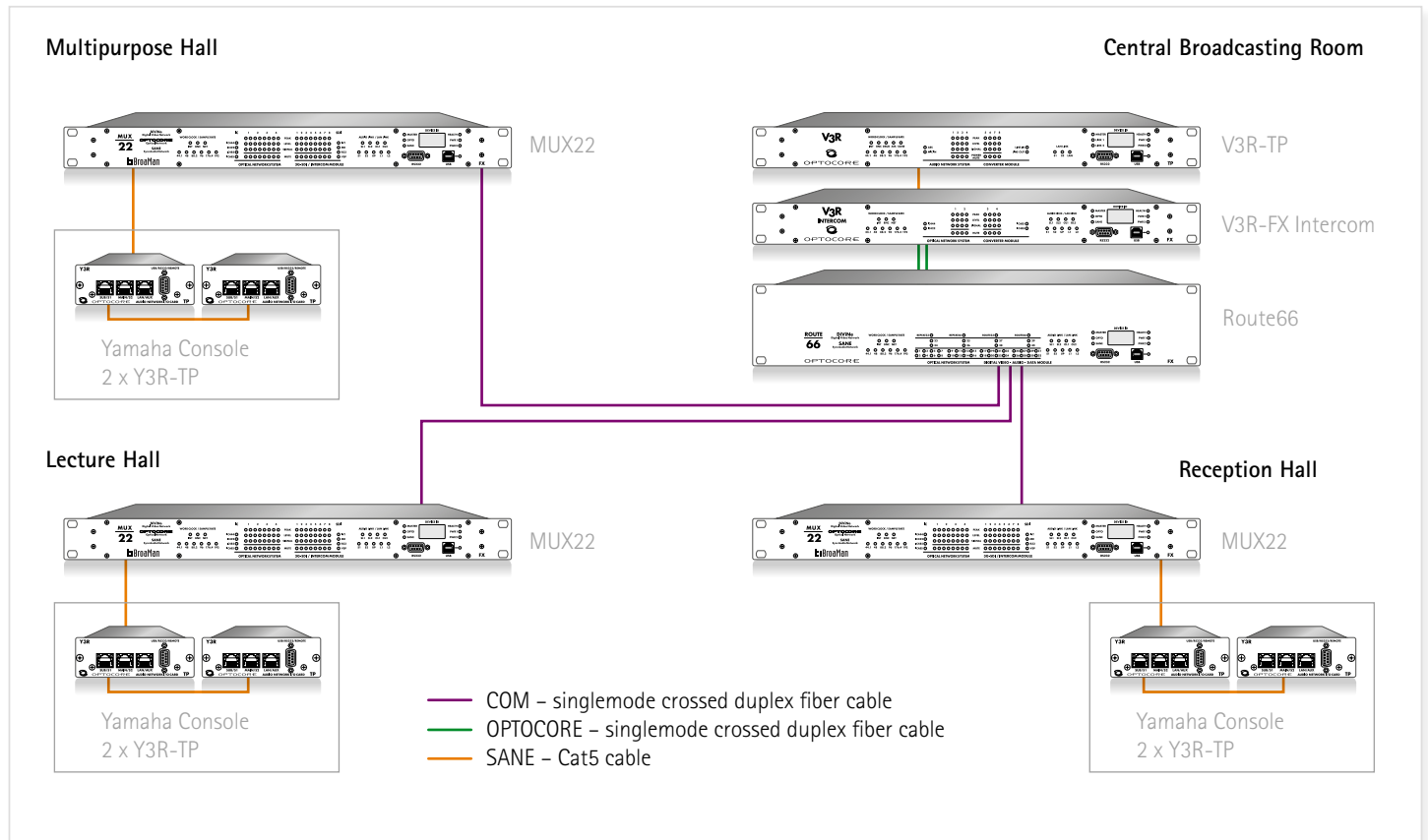**OPTOCORE.com**

Audio, Video, Intercom Routing System

CHALLENGES:

- 3 different halls in the building should provide video, audio, intercom and data connectivity between each other and provide feeds to the Central Broadcasting Room

- High distance between each Hall and Broadcasting Room

- Number of cables should be reduced to minimum

DETAILED SIGNAL REQUIREMENTS:

- Each Hall is equipped with four 3G or HD-SDI PanTiltZoom cameras with remote control as well as single HD-SDI output which can be converted to DVI and displayed on projector

- Each Hall provides 16 bi-directional audio channels via Yamaha CL-series console

- Each Hall is equipped with Clear-Com 4-wire panel. All panels should be connected to the matrix in the Central Broadcasting Room

- Central Broadcasting Room is a main control room for all signals. It provides control over video and audio routing. Central Broadcasting Room is equipped with vision mixer and video playback device which outputs can be routed to each room

- Audio feeds from each Hall can be routed to analog outputs which are connected to preview loudspeakers in the Central Broadcasting Room

Multipurpose Hall

MUX22

Yamaha Console
2 x Y3R-TP

Central Broadcasting Room

V3R-TP

V3R-FX Intercom

Route66

Lecture Hall

MUX22

Yamaha Console
2 x Y3R-TP

Reception Hall

MUX22

Yamaha Console
2 x Y3R-TP

— COM – singlemode crossed duplex fiber cable
— OPTOCORE – singlemode crossed duplex fiber cable
— SANE – Cat5 cable

SOLUTION:

Halls:

- 1 x **BroaMan Mux22** – provides 4 SDI inputs for all cameras and one output for projector as well as intercom connection for Clear-Com panels, LAN and RS485 to control PTZ cameras (enables different camera types)

- 2 x **Optocore Y3R–TP** – interface cards which fit Yamaha slots and enable routing audio signals between all Halls and Central Broadcasting Room. Y3R cards connected by up to 100m Cat5 cable to the Mux22

Central Broadcasting Room:

- 1 x **BroaMan Route66** – central router, which connects all Mux22 from all 3 Halls. It is equipped with local SDI I/O to provide local connectivity to vision mixer and playback device

- 1 x **Optocore V3R–FX–INTERCOM** – provides intercom matrix connection to panels which are connected via Mux22 in each hall

- 1 x **Optocore V3R–TP–8LO** - provides 8 local outputs – user can route any signal from any Hall and any Yamaha console to the local loudspeaker

- Computer running Optocore Control application which controls video and audio routing and monitors the network can be connected in the Central Broadcasting Room

MAIN ADVANTAGES:

- Reduced cabling which saves costs over long distances

- All audio and video and intercom channels can be routed through the complete network without bottlenecks or restrictions

- Compact 1RU interface in each Hall

- Direct Yamaha compatibility

- Simple Clear-Com intercom integration

- Camera control freedom – either LAN or RS485

- One software to control and monitor the complete system

For more information about BroaMan products visit
www.broaman.com

OPTOCORE.com