

## Case Study

### Signal Distribution (CAT5)

Cat5 transmitters and receivers are a versatile family of products that permit long-distance distribution of RGB video, component video, S-video, and composite video and stereo audio over unshielded twisted pair (UTP) cable. Depending on the signal bandwidth, these signals can be sent as far as 1000m, but generally are only used upto around 100m.

### What Is RS-232 Communication

RS-232 is a two communication protocol used typically by Audio Visual installers to control connected devices and also to receive feedback from those devices. i.e. control a projector, turning it off and on, but also to get feedback on how much lamp life is left in the projector before a replacement is needed.



### key aspects

Architectural challenge

Projection

Audio

## Combining old with new—St Christopher's Church

Arbroath's 45 Commando Royal Marines has a traditional church on site for the use of the military community. However, the Padre, Scott Shackleton, wanted to bring it into the 21st Century without changing the feel of the church. A need to deliver more interactive and engaging services was identified. In addition the solution had to be simple and intuitive to control.

Following a comprehensive site survey and detailed discussions St Christopher's Church beautiful stained-glass windows were identified as the main feature, so it was important not to interfere with their integrity. **Component AV Services** were able to offer a solution that didn't impede on the church's environment but gave them the flexibility to view images on a projector. The Clearview rear projection screen answered these problems. Hung from overhead wooden beams on thin wire, the screen appears to float, plus its clear nature meant from a distance it was barely visible

*"The key for success with this project was to be able to deliver a solution that blended in with the aesthetics of the church without imposing upon it." Glen Ogden—CAV*

A 19" rack was built to house the rest of the equipment including a DVD player, and connections for a PC/Laptop and an auxiliary video input. An Extron control panel integrated into the rack makes operation of the equipment simple during a Service.

The ergonomics of the building dictated the need for dual stereo speakers to allow voice reinforcement and programme audio to be heard throughout. To achieve this an amplifier capable of mixing a microphone input with program audio was installed which also had the ability to output in stereo to 4 speakers.

*"With these new facilities we are able to engage better with our ever younger congregation. the screen and system is brilliant - it was magic at Christmas!"*

*Scott Shackleton—Padre*