



# Specialist sound, light & video systems integrators

|                   |                                      |                      |                            |
|-------------------|--------------------------------------|----------------------|----------------------------|
| Contact us        | Conference, banqueting & event rooms | Bars & restaurants   | Reception & communal areas |
| Late night venues | Systems control & management         | Relaxation & fitness | In-room entertainment      |

## Case Study: Ocean Frontier, Fort William



### Outline

CGA Integration supplied the entire audio visual suite for the conversion of Fort William sewage works into a £1.3 million aquarium, creating the largest indoor tourist attraction in Fort William. Ten themed zones from seashore to deep ocean included a strong reliance on dramatic audio and video projection to enhance the 1.4 million litre centrepiece aquarium. Regular diving displays also provided audience interaction for an expected audience of 100,000 per year.



### Challenges

The central aquarium exhibit was partially open plan, increasing salt and humidity through most areas. A tourist season deadline and tight budget required all aspects to function perfectly first time. In addition, audio visual future flexibility and expansion was a key part of business strategies to maximise repeat visitation.

### Diving displays

Regular diving demonstrations and fish feeding incorporated underwater video and audio feeds with radio mics and automatic effects ducking. Processing was required to reduce bubble noise, low bandwidth diver signal and room acoustics. Mediamatrix provided patching and processing while Kramer switching handled the video with a system simple enough for untrained staff to use.

### Zone control

Different sound effects for each zone needed to be integrated with radio microphone inputs and PA announcements. An additional feature required by Building Control was an All Off setting to be linked to the Fire Alarm. This was all provided by a Media Matrix X Frame, with two expansion Break Out Boxes.



|            |                   |          |             |                        |                           |           |
|------------|-------------------|----------|-------------|------------------------|---------------------------|-----------|
| Contact us | Places of Worship | Site Map | Client Area | News & Latest Projects | Past Projects & Customers | Downloads |
|------------|-------------------|----------|-------------|------------------------|---------------------------|-----------|

CGA Integration Limited PO Box 3997, Bracknell, Berkshire. RG42 2ZS

Registered office 125 high street, Odiham, Hants, RG29 1LA

Phone: 0845 058 4650

fax: 0870 458 1668

email: [info@cga-integration.com](mailto:info@cga-integration.com)

[www.cga-integration.co.uk](http://www.cga-integration.co.uk)

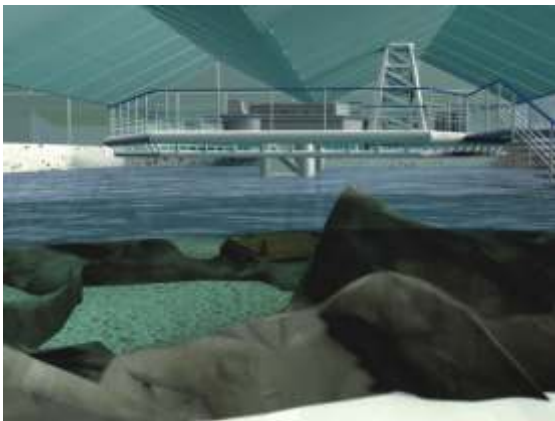
VAT No. 851 5407 34 Registered in England and Wales. Company Registration No. 3878843



## Specialist sound, light & video systems integrators

|                   |                                      |                      |                            |
|-------------------|--------------------------------------|----------------------|----------------------------|
| Contact us        | Conference, banqueting & event rooms | Bars & restaurants   | Reception & communal areas |
| Late night venues | Systems control & management         | Relaxation & fitness | In-room entertainment      |

### Case Study: Ocean Frontier, Fort William



#### Environmental conditions

Humidity and salt issues were kept at bay by supplying high quality Near A2, A4 and A8 speakers. An air conditioned room was specified to house processors and amp rack, with only breakout controls in challenging atmospheres.

#### Projection

16 NEC data video projectors were supplied to enable dramatic projection up to 4m wide setting the scene in each zone and relaying underwater video images during diving shows to create a live, diver commented 'Underwater Safari'. CGA Integration also provided a screen for the National Aquarium Conference 2003.

#### Budgets and timescales

Construction issues threatened to impinge on the AV budget remaining toward the fit out phase of the project and CGA Integration suggested third party finance to keep the system spec at that required to achieve a high quality visitor experience.

#### Response

Tim Clements, Ocean Frontier curator, was delighted with the end result. "CGA Integration came on board with a wealth of expertise and were instantly up to speed on our project. Their support was second to none and the system gave us excellent flexibility to keep the experience for our visitors fresh and interesting."

[Contact us](#)[Places of Worship](#)[Site Map](#)[Client Area](#)[News & Latest Projects](#)[Past Projects & Customers](#)[Downloads](#)

CGA Integration Limited PO Box 3997, Bracknell, Berkshire. RG42 2ZS

Registered office 125 high street, Odiham, Hants, RG29 1LA

Phone: 0845 058 4650

fax: 0870 458 1668

email: [info@cga-integration.com](mailto:info@cga-integration.com)

[www.cga-integration.co.uk](http://www.cga-integration.co.uk)

VAT No. 851 5407 34 Registered in England and Wales. Company Registration No. 3878843