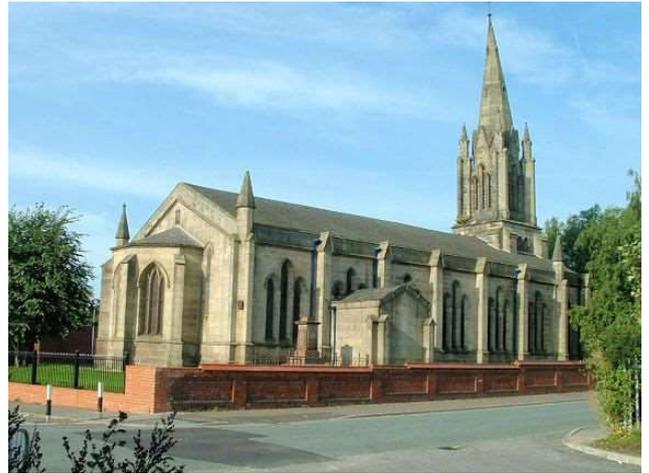




System Example – Traditional House of Worship

Houses of worship are often acoustically challenging buildings and the intelligibility of the audio system can be compromised without careful consideration of the types of loudspeaker to be used.

This system is designed to provide good coverage of speech and light music for a traditional house of worship.



Exploded view of Maui I1

In this case we are using four Maui I1 slimline column loudspeaker in the main nave to provide wide horizontal and narrow vertical coverage, enabling more of the sound to get to the congregation instead of being reflected off the floor, walls and ceiling.

You also need fewer column loudspeakers to get effective coverage compared to conventional two way cabinet loudspeakers.

Additionally the sound coverage is significantly more even from the loudspeaker to the middle listening point in the church, so acoustic hot spotting is reduced.

For the smaller chapel and choir areas we are using the DQOR5T compact wall loudspeaker which can be used in portrait or landscape format



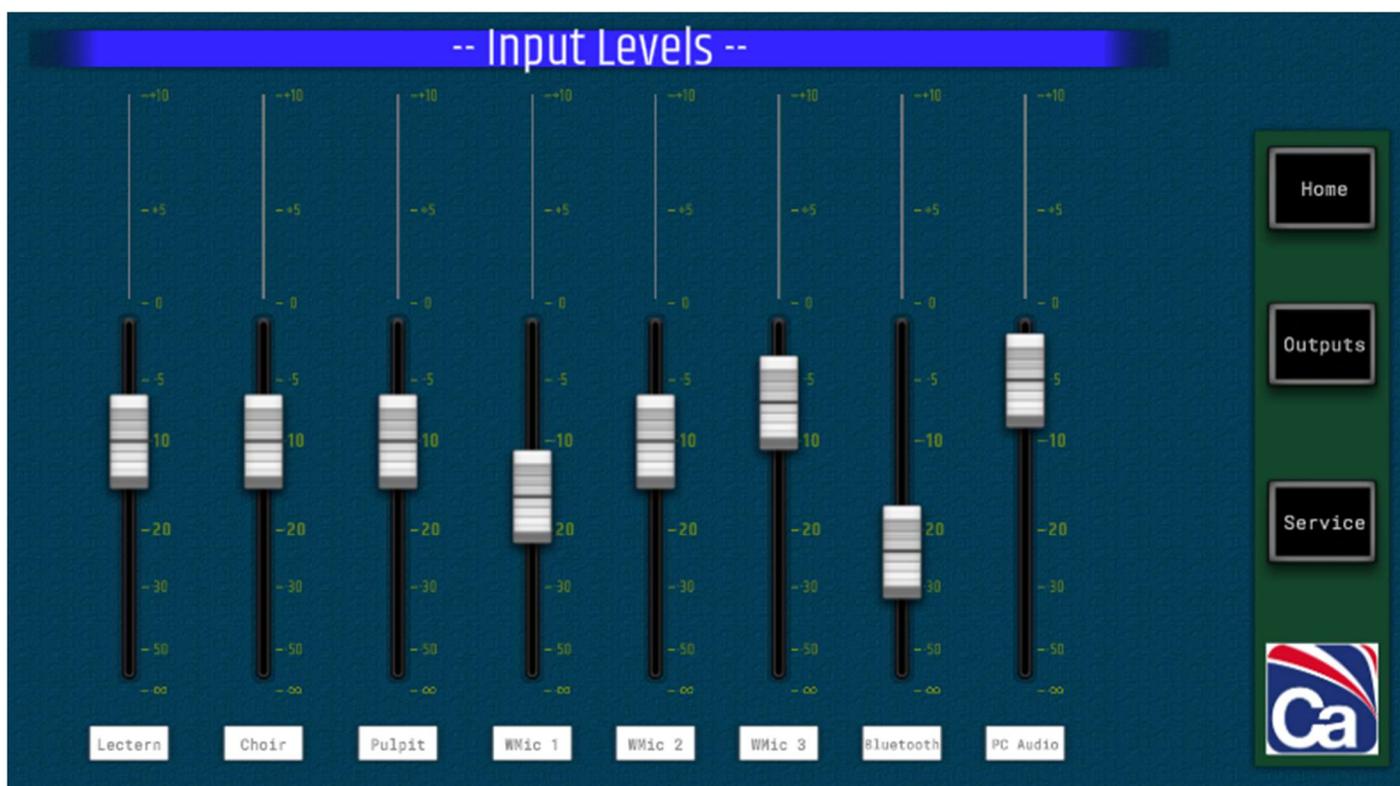
Inputs

Input number	Description	Via
1	Gooseneck microphone 1	DIO44 (input 1)
2	Gooseneck microphone 2	DIO44 (input 2)
3	Gooseneck microphone 3	DIO44 (input 3)
4	Wireless microphone 1 (lapel/headset)	DIO44 (input 4)
5	Wireless microphone 2 (lapel/headset)	IPA424T (input 1)
6	Wireless microphone 3 (handheld)	IPA424T (input 2)
7	Bluetooth receiver	IPA424T (input 3)
8	PC audio	IPA424T (input 4)

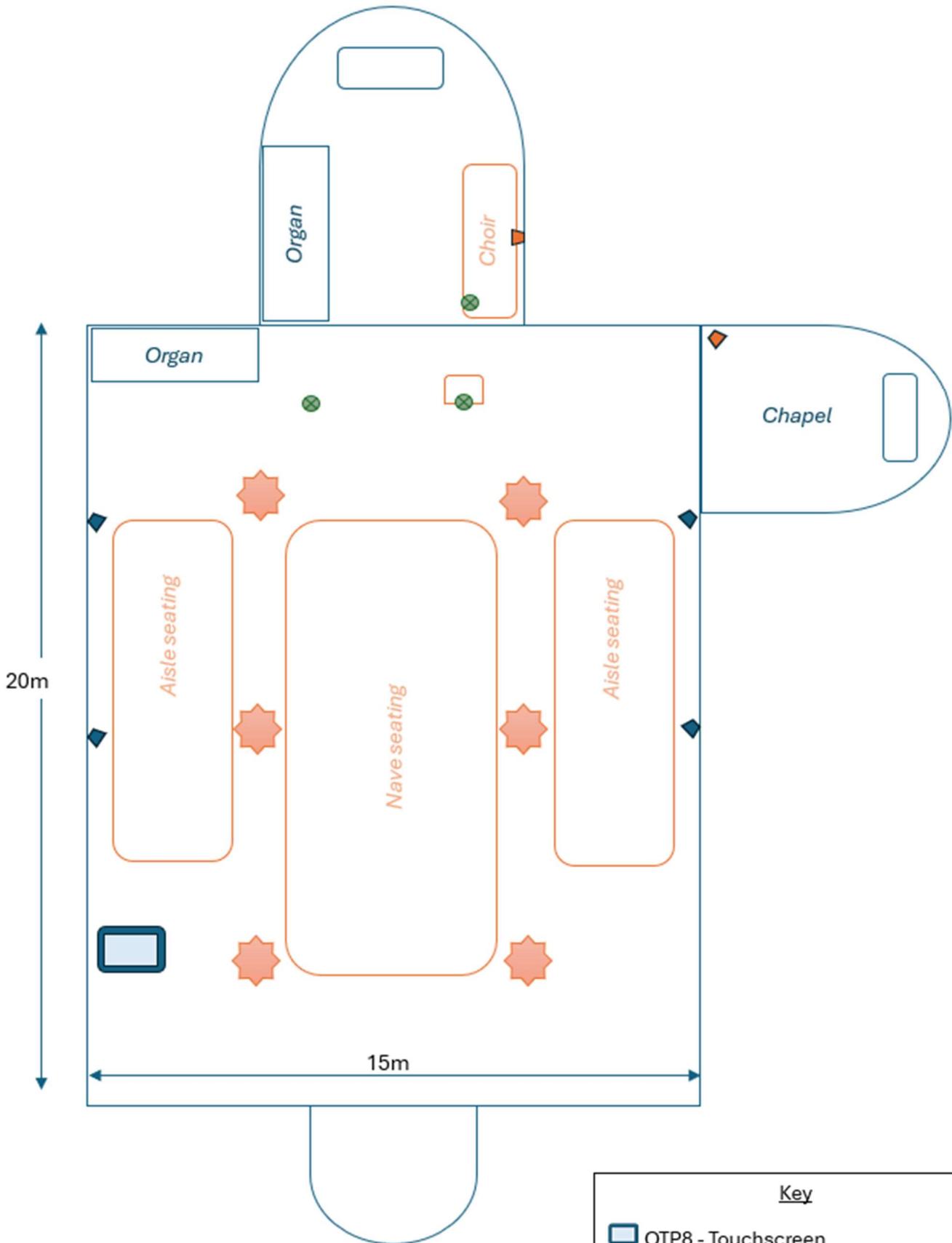
Outputs

Output number	Description	Via
1	Nave Front	IPA424T (channel 1)
2	Nave delay	IPA424T (channel 2)
3	Choir	IPA424T (channel 3)
4	Chapel	IPA424T (channel 4)
5	Assistive hearing system	XEDAI Dante® output 1
6	Streaming service	XEDAI Dante® output 2
7	Spare	XEDAI Dante® output 3
8	Spare	XEDAI Dante® output 4

Touch screen control via QTP8 panel and Qestra software



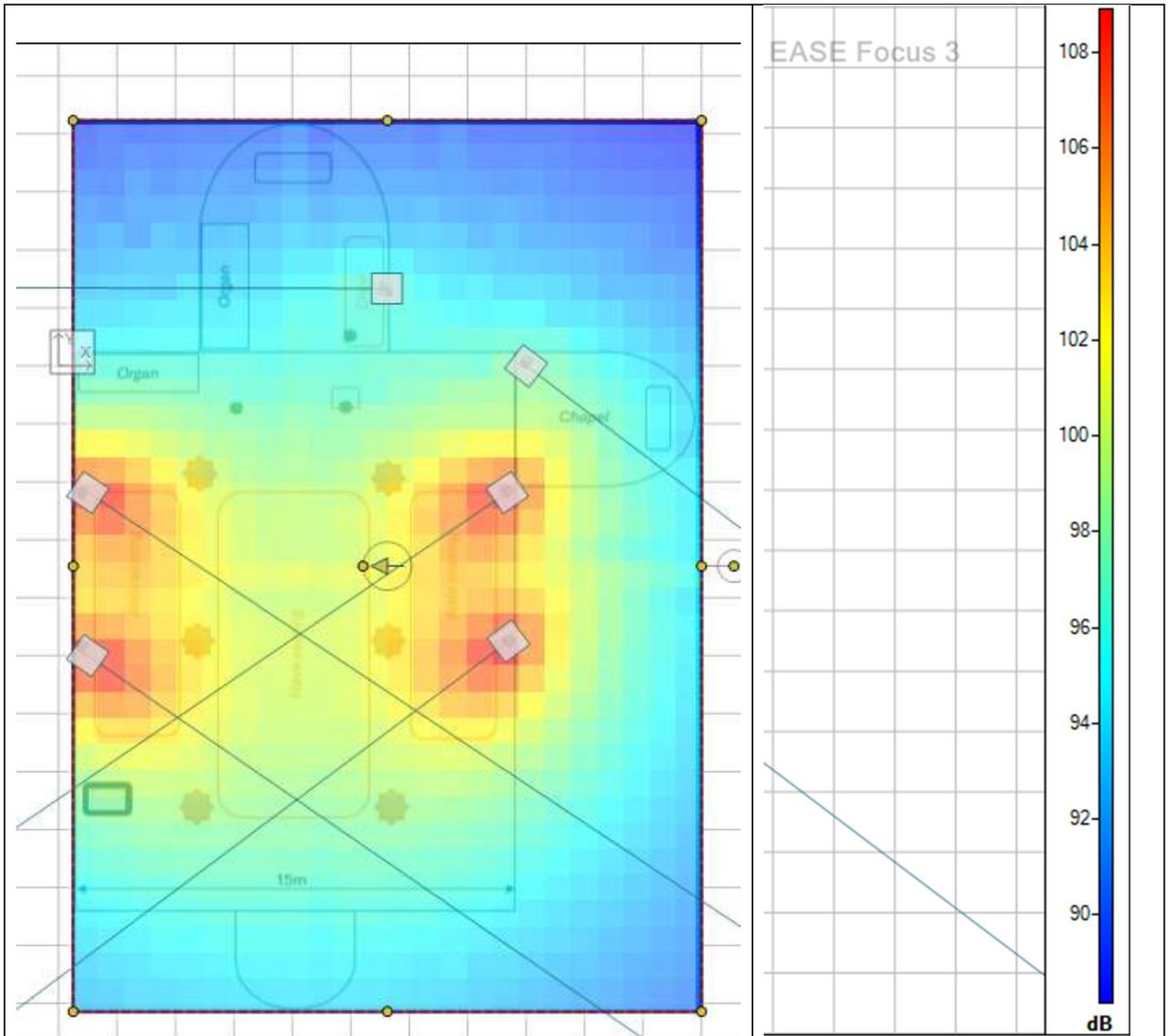
Plan view of church



Key

- QTP8 - Touchscreen
- Gooseneck microphone
- Maui I1 column loudspeaker
- DQOR5T cabinet loudspeaker

Ease Focus 3 plot



The Maui1 columns are mounted at 2m FFL, and the DQOR5T mounted at 2.5m

Average predicted SPL = 96.5 dB +/- 4.5dB across 90% of the listening space

Input sources



GM-5212T –
cardioid
gooseneck
microphone
featuring a ½” gold
plated diaphragm



U508BPL – True diversity UHF
lapel wireless microphone



U508HHC – True diversity
UHF condenser handheld
microphone



Aerolink – Bluetooth 5.0 wireless receiver

Control & Amplification



IPA424T – 4 x 240w 100v power amplifier with DSP/Dante® network card



DIO44 – 4 in 4 out Dante® audio
interface



QTP8 – Touch screen control panel

Assistive hearing system



Equipment List

Item	Qty	Description
Maui1W	4	Slim-line column loudspeaker 120w 100v, with U bracket, white
DQOR5TW	1 pair	2 way cabinet loudspeaker 70w 100v, with tilt & swivel bracket, white
IPA424T	1	4 x 240w 100v 1U class D power amplifier
XEDAI	1	Questra DSP/Dante® module for IPA424T
QTP8	1	8” touch screen
DIO44	1	4 input 4 output Dante® adaptor
GM-5212T	3	1/2 “ diaphragm cardioid condenser gooseneck microphone
Aerolink	1	Class 5, Bluetooth receiver
U508BPL	2	UHF True-diversity wireless microphone system with lapel microphone
U508HHC	1	UHF True-diversity wireless microphone system with condenser handheld
WIN42AD	1	4 way antenna distributor
WS100DA	1	Pair of paddle UHF antennae
AURI-TX2ND	1	Auri – Auracast® assistive listening transmitter with Dante
AURI-RX1	10 *	Auri – Auracast® assistive listening receiver
AURI-D16	1	Auri - Auracast® 16 way receiver charging dock
Headphones	10 *	Binaural headphones

(* exact quantity to be confirmed by customer)

Other items that will be required

POE network switch

19” rack or equipment cabinet

Microphone stands/clamps depending on the positioning of the microphone

Suitable loudspeaker, microphone and network cabling

Items not included in the above

A PC/streaming equipment