

Information regarding sound limiting at Foxtails Barn (Consall Hall).

PSL has been made aware of a requirement for a sound limiting device attached to the system our company is in the process of installing at the above venue.

The devices often specified are those that detect a prolonged excess in volume over a period of time and then cut the power to the audio system as a result. These devices must then be reset for the power to come back on.

PSL strongly discourages the use of these systems for 2 reasons:

1. They can cause serious damage to expensive equipment,
2. They do not actually prevent volume limits from being exceeded, only react to it.

PSL uses processing units from NST audio (<https://nstaudio.com>) which include input compression, dynamic equalisation and output limiters.

Input compression prevents the audio signal coming into the sound system from exceeding a pre-defined level by simply turning it down before it ever gets to the amplifiers.

Dynamic equalisation responds to specific aspects of audio that will cause a problem by removing frequencies that resonate within the specific building at a point before they can escape the building (so even if the volume is technically low enough, the exact frequencies that cause issues are STILL targeted to ensure a nuisance is not caused externally).

Output limiters ensure that every individual speaker in the building is unable to exceed its predefined maximum level.

We are able to set all of these parameters according to the requirements of the venues, our customers and the specific legislation applied to licensing for venues. Having installed numerous similar systems up and down the country at some of the most stringently controlled licensed venues, we are absolutely confident of our ability to ensure that all requirements are not just met but substantially exceeded.

Any enquiries regarding this information should be directed to Adam Hornblow, Group Managing Director of PSL Technology Group Ltd.