

# Concert Noise Monitoring in Norway

## CASE STUDY: Guideline-Based Noise Monitoring for Live Events in Norway Using SV 307A

### Contractors:

- Denstad Consulting AS
- dBcontrol Norway

### Measurement Equipment:

- SV 307A Class 1 Noise Monitoring Station
- SvanNET – Automatic Monitoring Services – Cloud platform for remote access, management, and data transfer

### Challenge:

Concert organizers must meet dual requirements: **live sound level feedback** for FOH engineers and **accurate logged data** for post-event compliance. This is challenging, especially in Norway, where IS-0327 guidelines are treated as binding by some communes. Promoters must provide **validated data** to meet varying local expectations.



In Norway, outdoor music events such as concerts and festivals play a central role in cultural life, attracting thousands of fans. However, these large-scale events must also comply with national sound guidelines to ensure minimal disturbance to surrounding communities. Although Norway has no legally binding concert noise limits, local municipalities enforce the guidelines published in the IS-0327 document issued by the Norwegian Directorate of Health. These set recommended limits for both audience zones and neighboring residential areas.

To help promoters navigate these regulations, noise monitoring experts like Thomas Denstad play a vital role in ensuring event compliance, supporting clear communication with local authorities, and maintaining trust with stakeholders.

Thomas Denstad operates under the banner of **dBcontrol Norway**, a company that holds a license agreement with the Dutch firm **dBcontrol BV**. Through **Denstad Consulting AS**, Thomas provides professional sound measurements and reporting for the largest event promoters in the country, including Live Nation Norway and All Things Live Norway.

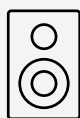
During the 2025 summer festival season, Thomas began using the **SVANTEK SV307A** Noise Monitoring Station as part of his measurement setup, primarily for monitoring sound levels near residential zones, while also supporting FOH (Front of House) operations.



SV 307A Class 1 Noise Monitoring Station gathers noise level data during live performance, and streams it directly to SvanNET for analysis and management.



## Challenge:

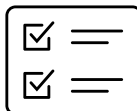


The challenge in Norway's festival scene lies in managing sound levels to meet guideline limits at both the audience area (FOH) and neighboring zones. For FOH, the target is 99 dBA Leq30min, with peak levels not exceeding 130 dBC. At the closest residential location, the recommended limits are 75 dBA Leq30min before 19:00, and 70 dBA after 19:00.



Promoters rely on precise measurements to prove compliance to municipalities. At the same time, sound engineers require live data visibility to make real-time adjustments during the show. This dual requirement creates a need for systems that can both report and visualize data effectively — all while maintaining measurement accuracy and data integrity.



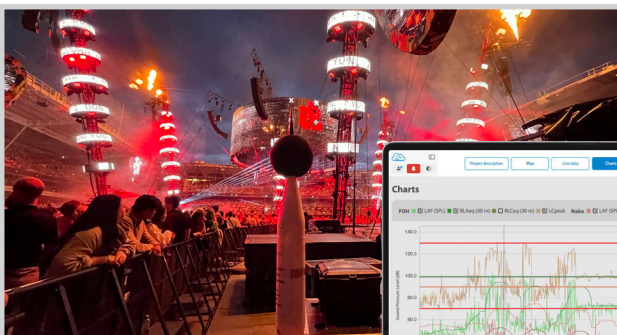


## Key Features of the Solution

To effectively meet the dual demands of regulatory compliance and live sound management, Thomas Denstad implemented a hybrid monitoring setup combining the SVANTEK **SV 307A** Noise Monitoring Station with the **10EaZy system**. The **SV 307A**, a fully autonomous outdoor noise monitor, was primarily used at residential locations and occasionally at FOH (Front of House) positions. For live performance monitoring, the **10EaZy system** provided sound engineers with real-time level displays. All data was managed through **SvanNET**, SVANTEK's cloud platform, which enabled remote access to live and historical data, streamlined the reporting process, and facilitated visual data presentation. Measurements followed the Norwegian standard of using 30-minute rolling Leq, with the **SV 307A** configured for both RLA(1) 30min and RLA(2) 15min. This approach gave Denstad the flexibility to support both production teams during live events and local authorities during post-event compliance review.

*"The combination of SV 307A and SvanNET has made reporting much easier than before. It's a game changer for the concert industry and for FOH live monitoring."*

Thomas Denstad, Consultant and Founder of Denstad Consulting AS



## Conclusion

The implementation of the SVANTEK **SV 307A** in Norway's concert and festival scene has proven highly effective, particularly for monitoring residential noise exposure. In certain cases, the system was also deployed at FOH locations, offering flexibility in setup. The reliable data collected enabled accurate post-event reporting to local municipalities, helping promoters demonstrate compliance with national noise guidelines. Additionally, the use of **SvanNET** streamlined the entire workflow — from data access to report generation — significantly improving operational efficiency.



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