

Perth Police Station



SUMMARY

• LOCATION

Perth, Australia

• FACILITY SCOPE

Police Facility

• OBJECTIVE

Provide exceptional audio processing in an acoustically challenging environment

• BIAMP SOLUTION

Tesira™

• OUTCOME

The project dramatically improved the Perth police station's audio processing and recording capabilities

• EQUIPMENT

- 2 Tesira SERVER-IO configurable digital signal processors
- 1 TesiraFORTÉ AVB VT digital audio server
- 4 Tesira EX-MOD modular expanders
- 4 Tesira TEC-1i wall-mount controllers

The custodial desk area and holding cells at a police station in urban Perth are constructed primarily with concrete, reinforced glass, and steel, which are known to present significant acoustical challenges. CCTV is everywhere, for the protection of the police officers and all those going through the system. There are plenty of microphones as well, because hearing a comment, an admission or a confession, and having that audio properly recorded for later review could prove crucial for any number of reasons. And while CCTV systems have dramatically improved in recent years, audio has dragged its heels. In an environment such as the police station's custodial area, speech intelligibility is terrible. The acoustics are harsh, and the background noise is often extreme.



The Tesira AEC improves everyone's safety and is now useful for staff training. I can see other applications where mission-critical audio is important, but the acoustic conditions are hostile. For example, Customs and the Border Force could benefit, as could warehousing, and the Port Authority. They could all benefit from Tesira AEC cleaning up recorded speech.

ANDREW ANDERSON-KING

Sales Director
Integrate Perth

Solution by Integrate Perth

This is the situation Integrate Perth was hired to improve. The AV integrator installed an audio system with Biamp Tesira as the nerve center, which featured Tesira acoustic echo cancellation (AEC) technology.

Integrate Perth's Sales Director Andrew Anderson-King explains: "In our initial tests we simply ran some CCTV footage with associated audio through Tesira AEC processing and had a listen on a little powered speaker. Our jaws dropped. Environmental noise, such as holding cell doors slamming or yelling in the background, along with the harsh reverberation of the space, had all but disappeared. What resulted were intelligible spoken words. We instantly knew we were onto something."



CONCLUSION

There are approximately 100 microphones across the police station. And now, the captured hi-res CCTV video has corresponding audio processed by Tesira AEC technology.

"It's a big leap forward," confirms Integrate Perth's Anderson-King. "The Tesira AEC improves everyone's safety and is now useful for staff training. I can see other applications where mission-critical audio is important, but the acoustic conditions are hostile. For example, Customs and the Border Force could benefit, as could warehousing, and the Port Authority. They could all benefit from Tesira AEC cleaning up recorded speech."



ABOUT BIAMP

Biamp® is a leading provider of innovative, networked media systems that power the world's most sophisticated audiovisual installations.

Recognized worldwide for delivering high-quality products and backing each one with a commitment to exceptional customer service, Biamp's mission is connecting people through extraordinary audiovisual experiences.

Founded in 1976, Biamp is headquartered in Beaverton, Oregon, with offices and manufacturing facilities located around the world.

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