



Icom Australia: The Evolution of Communications at Nissan Motorsport

Nissan Motorsport, approached Icom Australia to partner in providing innovative and reliable communications. Challenges of implementing such a system included, guaranteeing the system works both on and off the track. Icom Australia equipped Nissan Motorsport with an analogue radio system that withstood the demanding conditions of V8 motorsports. In 2015 Nissan Motorsport installed Icom's IP Advanced Radio System, a customised solution which ensured secure radio communications that could be easily installed on their existing wireless. Icom's IP Advanced Radio System has provided consistent, clear and reliable communications in all racing environments.

The Nissan Nismo logo consists of the word "NISSAN" in red, bold, uppercase letters above the word "nismo" in black, lowercase letters with a red outline.

Company: Nissan Motorsport

Country: Australia

Industry: Motorsport

Business Situation: Nissan Motorsport wanted to maximize their radio communications to ensure greater consistency, clarity and reliability.

Solution: Icom Australia designed a customized communications solution using the IP100H Advanced Radio System.

Features & Benefits:

- Improved Coverage
- Increased Security
- Inexpensive Deployment
 - no licensing fee
- Simplex and Full Duplex Modes

BUSINESS REQUIREMENTS

V8 supercars is the 4th most watched, 3rd most attended sport in the country. Nissan Motorsport is the largest V8 supercar team in this category and as such, reliable and clear radio communications is critical to the team when implementing their race strategy.

The relationship with Icom extends back to 2013 where the team set out to improve the radio communications between the team and the cars during race weekends.

The race track can be a particularly harsh environment, it's hot, it's noisy, it can be wet and it's dirty. The rules dictate in V8s supercars that teams must use a traditional RF system between the car and the pits.

Nissan Motorsport required the new system to provide greater consistency, exceptional voice clarity and outstanding reliability.

It is imperative the team are able to communicate between the drivers and all the crew to be successful.

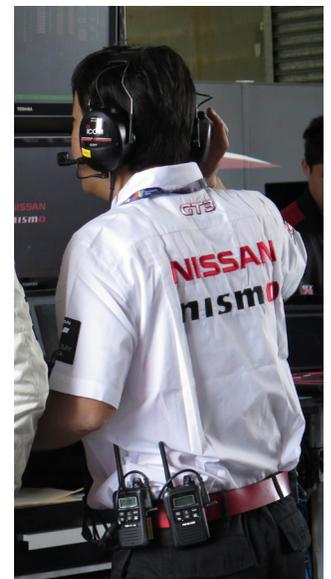


Image: Nissan Motorsport



APPLYING THE RIGHT SOLUTION

In 2013, Icom Australia worked with Nissan Motorsport to assess their needs and the solution was an RF analogue radio system which was used for 2 years and was able to meet Nissan's race requirements. The only concerns where programming of the radios was very time consuming and interference with other competitors.

In 2015, Nissan wanted to further improve their communications and Icom's new solution the IP100H Advanced Radio System was the perfect choice. Nissan was interested in the IP100H system for several reasons. Not only did the IP100H provide seamless communication but it was also compact, and well suited to the fast paced racing environment. They no longer had to program the radio, had no interference and were able to communicate using 16 different groups which was not possible on the previous system.

The traditional RF system between the car and the pits was maintained due to V8 Supercar's rules. However, a VEPG3 control unit was also installed which links the IP100H system and the traditional radios so that all the crew and engineers in the pits can communicate through the IP100H system.

"The IP100H system has been fantastic for us, we've got a great system that works really well. All the guys know what they have got to do because they've got clear communications all through the pits."

Scott Sinclair
General Manager - Racing

WHAT THE CLIENT GAINED

By implementing Icom's IP100H Advanced Radio System, Nissan Motorsport was able to satisfy their requirement for greater consistency, clarity and reliability.

Features & Benefits of the IP100H include:

- **Improved Coverage:** Via the use of wireless LAN, Nissan Motorsport now has clear and reliable communication anywhere on track and in the pits with no external interference.
- **Increased Security:** The IP100H system is completely secure which means the teams can have conversations about their strategies and race plans, on the grid and in the pits, knowing that none else can hear them.
- **Inexpensive Deployment:** The IP100H is a license free system that does not require a channel which not only saves the team money but also time as programming all the radios at each individual event is no longer required,
- **Simplex and Full Duplex Modes:** The IP100H can be used either as a traditional radio with PTT (push-to-talk) or when paired with headphones act as a full duplex hands-free system. resulting in no delays in communications.



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