



LEADING HUNGARIAN TOURING CAR RACING TEAM DEPLOYS MOTOTRBO™

CLEAR, CRITICAL RACE COMMUNICATIONS HELP TEAM ON ROAD TO SUCCESS



M1RA MOTORSPORT

M1RA was founded in early 2017 by Hungarian motorsport hero, Norbert Michelisz, and race engineer and former B3 Racing team manager, Dávid Bári. The team drives JAS-built Honda Civics in the Touring Car Racing (TCR) International Series, an international championship launched by former World Touring Car Championship boss Marcello Lotti in 2015. Races are held globally, including events in Georgia, Bahrain, Belgium, Monaco, Austria, Hungary, Germany, Thailand, China and Abu Dhabi.

With numerous early wins and podium places, M1RA currently has a significant lead in the series. Dávid Bári attributes this not only to the excellent cars, experienced drivers and support teams, but also to the infrastructure and systems the team has in place; this includes the MOTOTRBO radio communications system supplied locally in Hungary by Motorola Solutions long-term partner Fercom Systems Ltd. The MOTOTRBO radios allow fast, precise and crystal-clear communication between the drivers and all the ground staff during the races. Features such as noise cancellation, long-life IMPRES batteries, Transmit Interrupt call prioritisation and the Time-Division Multiple-Access (TDMA) technology were also all key to M1RA's decision to deploy a MOTOTRBO system.

CUSTOMER PROFILE

Organisation:
M1RA Motorsport

Partner:
Fercom Systems Ltd

Industry:
Sports & Leisure

Location:
Hungary

Partners:
• Audiolink Ltd

Motorola Solutions Products:

- MOTOTRBO™ DM4400e Mobile Radios for racing drivers
- MOTOTRBO DP4400e Compact Two-Way Radios for ground teams
- PMLN6852 Heavy-Duty Headset with noise cancelling boom microphone
- IMPRES™ batteries

Applications:

- M1RA uses MOTOTRBO programming software to manage the fleet and for bespoke configuration prior to each race

“Racing is our passion. Yes, we need the fastest cars, the most skilled drivers and the best mechanics, but we also need reliable communications during races to ensure we win. The MOTOTRBO radios and headsets allow the whole team to communicate reliably, clearly and instantaneously during races. They are an integral cog in the wheel of our team’s success.”

Dávid Bári, Team leader, M1RA Motorsport



CHALLENGE

Touring car racing is a national pastime in Hungary. And M1RA wanted all its systems in place to be able to perform optimally from day one of its first TCR International Series. It needed a radio platform that could deliver crystal-clear voice communications within the exceptionally high noise, high interference environment of the race track. Both the M1RA drivers and ground staff had worked with underperforming networks in past teams, where they couldn't hear each other properly; this led to costly mistakes and time-wasting and could, ultimately, affect the final result of the race.

M1RA approached Fercom Systems, who has been a value-added Motorola Solutions distributor since 1994. After lengthy discussions and testing various systems, M1RA chose to deploy a MOTOTRBO radio system. The MOTOTRBO radios were the only ones that could deliver the sound quality, reliability and enhanced applications M1RA required.

SOLUTION

The DM4400e Mobile Radios have been mounted in the touring cars to allow the drivers to communicate with the ground and engineering teams during the race. Fercom Systems has also specially fitted headsets into the racing helmets, along with remote PTT pods, so clarity and volume remain optimal and drivers can operate totally hands-free. All members of the support teams, meanwhile, are equipped with DP4400e portable radios and PMLN6852 Heavy-Duty Headsets, so they can hear all communications clearly even if they are directly trackside or in the pits.

The MOTOTRBO Intelligent Audio feature allows the radio to monitor background noise and adjust the speaker volume accordingly. The MOTOTRBO Acoustic Feedback Suppressor blocks acoustic feedback from other radios being used around the track. The noise-cancelling microphones on the headsets also ensure superior receive and transmit audio by reducing levels of background noise.

M1RA uses the MOTOTRBO programming software to manage and configure its radios, as requirements can change on an event-by-event basis, dependent on race strategy and the number of drivers. By adjusting priority settings, the racing team can plan who can speak to whom and, more importantly, the Transmit Interrupt feature allows urgent calls to be given priority in an emergency situation. M1RA also changes channel frequencies using the software, as frequencies change in every country. Moreover, some local frequency management authorities, for example in Austria or Singapore, only allocate one frequency to the team, which is where MOTOTRBO's DMR-compliant TDMA technology becomes critical as it uses only one frequency to provide two independent channels, doubling the call capacity.

BENEFIT

Thanks to Motorola Solutions' best-in-class hardware, accessories and applications and the indispensable support from local partner Fercom Systems, M1RA Motorsport knows they can rely on fast, accurate, crystal-clear communications. The team knows that it can manage and programme its fleet of radios quickly and simply and knows it will always have at least two channels to communicate on, wherever it is in the world. Moreover, it is also looking into the possibility of using the radios to transmit data, too, in the future. The IMPRES batteries, meanwhile, ensure the radios always remain fully operational on race day and the radios are reliable and robust so they can withstand the conditions track-side and in-car.

The instantaneous, clear communication the MOTOTRBO radios deliver ensures the M1RA team can communicate efficiently and effectively during races; this has no doubt contributed to the team's great success in the TCR International Series.

Usage:

- Clear and immediate voice communications during races between drivers, engineers and members of the technical and support teams

Benefits:

- Robust, reliable communications during races
- MOTOTRBO Intelligent Audio provides clear, instantaneous communications even with intense background noise levels
- Transmit Interrupt prioritises urgent communications
- DMR technology provides two independent communication channels simultaneously – especially important in countries where the team can only obtain one local frequency

For more information on MOTOTRBO, please visit us on the web at www.motorolasolutions.com/MOTOTRBO

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