



expocom[®]
telecommunication

ESPECIAL EVENTOS DEPORTIVOS

**SOLUCIONES
INTEGRALES DE
TELECOMUNICACIONES
Y SEGURIDAD**

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Más de 40 años de experiencia en sistemas y soluciones de radio profesional

Referente en servicios integrales de radios, equipos de comunicación y seguridad

Equipo propio de 20 profesionales formado con la última tecnología

Especializados en sistemas troncales **DMR/NXDN/TETRA** y en entornos **ATEX (EX)**

Servicio Premium de movilidad geográfica.

Capacidad de inversión y reacción
100% solventes.

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Venta y alquiler de todo los equipos necesarios en comunicación y seguridad.

Servicio integral llaves en mano:



Consultoría e Ingeniería en Sistemas de Telecomunicaciones



Legalizaciones, asistencia técnica e instalación.



Realización de Proyectos Integrales (Planificación, ejecución y mantenimiento)



Instalación, mantenimiento y servicio post-venta oficial/reparación

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Servicio técnico oficial de:



KENWOOD

ICOM

Amplio stock permanente de equipos radios,
con accesorios de todo tipo, cascos integra-
dos, 3Mpeltor,...



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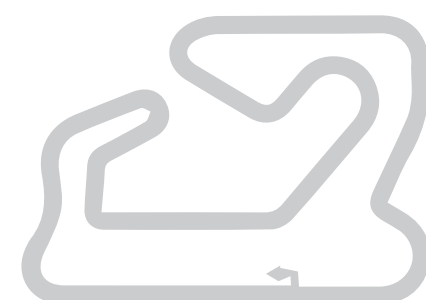


Contamos con la confianza de los principales circuitos nacionales.

Circuit de Barcelona



Circuito de Albacete



Circuito de Cheste



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Y con la confianza de las principales firmas internacionales y nacionales con reconocidos casos de éxito.

Ajunt. de Barcelona
Bombers gencat
Gencat
Aena
Port de Barcelona
La Sagrada Familia
Banc de Sabadell
La Caixa
Securitas
Prosegur
Best/Tercat
Acciona
Inditex
Kao chemichals.
Noble energy

Kao chemichals
Noble energy
Laboratorios Esteve
Cuatrecasas
Puig
Seat
Meroil
CLH
Tepsa
Bcn container depot
Trablisa
Tcc. transport ciutat comtal
Transportes esther
Radio taxi valencia
Taxi alicante

Taxi castellón
Mandarin oriental
Aeri bcn
Aeri montserrat

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Contamos con la recomendación del Coordinador de Frecuencia de la F1.

Dear Eduard & Rafael,

Please see below regarding your request for some notes for the coordination efforts for Expocom SA. This has been approved by my management.

Formula One Frequency Coordination for Spanish F1 GP by Expocom SA, Circuit de Barcelona

Expocom SA have engaged with F1[®] at the Circuit de Barcelona for the last 26 years as frequency coordinators.

For Formula One, this currently involves over 400 radio frequency channels, utilised by 10 F1 Teams, over 20 Broadcasters and several Third Parties.


Communication is a vital part of any operation for all F1 users, whether for using wireless voice, video or data systems in order to fulfil their obligations to support the coverage of the event.

Coordination and planning efforts are made prior to the F1 arrival by Expocom SA, which involves contacting many locally existing licence/spectrum holders with requests/negotiations to obtain the necessary frequency clearances F1 users require. This helps reduce the risk of external/internal interference to the users onsite during F1 week. Expocom SA also conduct frequency monitoring at the circuit with all the requested frequencies prior to race week, and offer alternative frequencies where necessary to those found affected by external interference.

As it is impossible to eliminate all sources of interference during frequency planning as there are other influences (such as frequency intermodulation products, harmonics, proximity problems etc) that will not become apparent until all users are transmitting their wireless systems at the track. This is where it is essential that quick, thorough and expert technical assistance is available at the circuit in order to support all users. Expocom SA have all the required technical knowledge and equipment to be able to react quickly and efficiently to problems as they have arisen, whether this has been a 'direction finding' exercise to find an interfering source, locate faulty equipment or to offer suitable replacement frequencies that will operate in a cleaner part of the spectrum.

F1 works with the frequency authority representatives for each country that F1 travels to, and Expocom SA offer amongst the best support and service in what is a demanding RF environment of F1.

Best regards,



Mike Hamilton
Frequency Co-ordinator
Formula 1[®]
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