



KEY ADVANTAGES AT A GLANCE

- High degree of technical expertise throughout the entire process
- Comprehensive, complete solutions from a single source
- Reliable systems and components with practical demonstration of MTBF values
- Systems of renowned Swiss quality at attractive prices
- Individual solutions tailored to meet your needs
- Experienced graduate engineers providing personal attention

THE SOLUTION FOR EFFICIENT RADIO JAMMING

Comlab is your partner for professional solutions in the RF sector. Our core business includes Reactive Jamming, broadcasting, PMR and communication systems for railway and road tunnels, as well as building lighting, extensive outdoor radio coverage and specialised solutions.

SOLUTIONS THAT DELIVER FULL COVERAGE

For over thirty years, we at Comlab have focused on radio frequency (RF) technology. Our involvement includes design, development, production and installation of turnkey high-frequency radio systems. Our considerable expertise and many years of experience mean that we are able to competently support our customers in discovering solutions for all of their problems.

SOLUTIONS THAT DELIVER FULL COVERAGE

Comlab is a Swiss supplier of a comprehensive range of radio frequency technology and we form part of the Haag-Streit Group. We at Comlab have acquired considerable expertise over a long period of time, and this enables us to respond flexibly to the needs of our customers with regard to current developments. In turn it will empower us to continue to deliver innovative system topologies for a broad range of high-frequency radio services in the future.

Our systems are of the highest Swiss quality – they are innovative, reliable and durable, thus representing an extremely sound long-term investment for our customers.

EXPERIENCE THE FULL SPECTRUM

Comlab's systems consist of modular components that can be easily integrated into the overall system and perfectly adapted to our customers requirements.

This modularity also facilitates subsequent expansion and retrofitting. Comlab's systems cover the following technologies:

GSM-R, TETRA, TETRAPOL, UHF, VHF, FM, FM Info, AM, T-DAB, T-DVB, ISDB-T, GSM P900, DCS, UMTS, etc.

Radio frequency systems	Products	Services
Road & Railway tunnel	Repeaters	Project engineering
Indoor coverage	Fibre optic converters	Products
Outdoor coverage	Radio cables and antennas	System management
Specialized Solutions	Base stations and terminals	HW/SW development
Modular Jamming	Monitoring/configuration software	Component production
Convoy Jamming	Jammer with Reactive Signal Technology	Assembly and commissioning
Portable Jamming		1st/2nd Level Support
		Maintenance

Road and railway tunnels

We are able to supply mobile radio services, digital audio broadcasting (DAB), VHF channels, GSM-Railway, intercom facilities for the police, analogue and digital radio for the emergency services as well as GSM services for passenger mobile communications in road and rail tunnels. Various technologies can be combined in a single system.

Indoor

Comlab solutions comprise the provision of radio and broadcasting services for large building complexes for customer information and the emergency services. There is also the possibility of combining different technologies in a single indoor system.

Outdoor

Reliable, high-quality radio and customer information systems for outdoor applications.

Specialised solutions

Comlab offers solutions for a wide variety of other specialised fields, for example military applications, identification and positioning systems, microwave radio links and broadband transmissions.



Jamming

We provide comprehensive Jamming Systems for Prisons, VIP car convoys, for portable usage in Rack or Manpack enclosure with Reactive Signal Technology.

TARGET SEGMENT

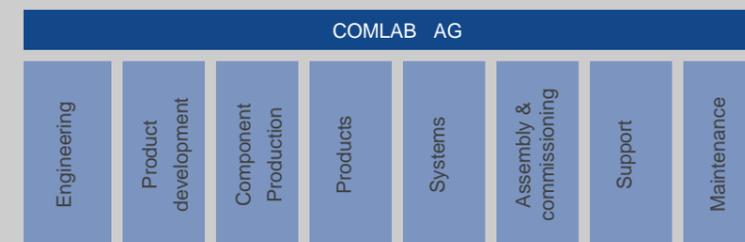
- Safety and Emergency Organisation
- Army, Border Guard and Civil Protection
- Mobile Network Operator
- Radio and TV Station
- Railway and Subway Operator
- Radio and Network Operator
- Public Authorities, Authority
- Private, Industry, Enterprise

APPLICATION

- Road and Motorway tunnels
- Traffic and Escape routes
- Railway tunnels, Subway lines
- Football stadiums, Malls, Car parks, Stations
- Hospitals, Clinics
- Military and Civil Protection installations
- Intrain, Airports
- Industrial areas, Construction zones

GUARANTEED QUALITY

Comlab's systems demonstrate excellent MTBF (mean time between failures) values. Optimum product and system quality ensures fewer faults and hence lower life cycle costs.



WAVELENGTHS AHEAD IN TERMS OF EXPERTISE

Comlab specialises in radio frequency technology. We are in a position to handle every aspect of development, production and implementation of professional radio systems all over the world. Highly-qualified and experienced graduate engineers advise our clients, design the systems, develop new components as necessary and guarantee innovative engineering. Our products are manufactured in state-of-the-art Comlab facilities at various locations in compliance with stringent quality standards. Qualified RF engineers assemble and install the systems on site and ensure long-term support and maintenance. Whatever the challenge, we find the best overall solution and provide reliable, long-term cover for the entire system life cycle from a single source. Countless testimonials from well-known customers underscore our position as global market leader in our field.

QUALITY GUARANTEED AND NO RADIO SILENCE

At Comlab, our RF systems and products provide superior quality and good value for money.



The analyses and methods of calculating the reliability of the components are based on a holistic approach. We analyse the entire product chain with a fault tree analysis (FTA) to enable specification of the MTBF of the signal transmission. The MTBF as determined by Comlab therefore covers the reliability, availability and maintainability of the entire system (RAM) and is much wider in scope than the conventional MTBF figures for each product.

The MTBFs of our systems are also based on the evaluation of actual projects rather than the usual vague estimates that tend to apply. Consequently, our customers receive realistic data as evidence of the quality and failsafe characteristics of Comlab's systems. Furthermore, a 10-year supply guarantee and warranty means that our systems represent a secure long-term investment.

ACHIEVING FLEXIBILITY WORLDWIDE

Comlab's high degree of vertical integration and extensive range of products and services under one roof make the company more versatile than the competition. Consequently even built-to-order and customised components and systems are not a problem. Reliable partners trained by us are on hand all over the world to provide service, support and training as well as rapid assistance in the event of any problems.

