

Security and Communication for People, Buildings and Industry.

Aviation Intercom FOR GENERAL AVIATION

A Commend Industry Solution Brochure



Support and security for Airfields.



Aviation Intercom for General Aviation raises the quality and availability of information for controllers and pilots, and helps to protect valuable property.

For pilots and their aeroplanes, airfields are their point of contact to earth. Reliable information and instructions despite sparse manning improve flight operations safety. Integrated security functions protect facilities, also outside normal operating hours.

This requires secure, reliable and speedy communication and information ensuring a high level of security for both, controllers and pilots.



SECURITY AND COMMUNICATION

General Aviation Intercom supports pilots and airfield managers – and increases flight safety.

Optimise flight operations. Increase information availability.

Well informed pilots fly better.

Safety for take-off and landing is dependent upon quick and accurate pilot information. Up-to-date weather data and clear radio contact with the controller are essential – regardless of his location on the airfield. A rapid exchange of information with the tower is ensured

via the Intercom, even after the pilot has landed and turned off the on-board radio. The controller can be reached from every part of the airfield – including the fuel station.



Benefits for Pilots

- ◇ Pre-flight information about local airfield conditions independent of manning
- ◇ Airfield controller fully accessible – regardless of his location
- ◇ Speed and clarity of communication
- ◇ Stable high quality radio signal reception via link up with existing radio system
- ◇ System generated weather information with spoken announcements
- ◇ Collect weather data and listen to radio conversations via all authorised Intercom terminals

Pilots can access automatically generated telephone announcements and internet info on airfield conditions before they set off. During flight preparations in the hangar, pilots simply need to

glance at the Intercom display. Arriving and departing pilots can receive information, even when the controller is not operating the radio from the tower.

Improve safety. Improve availability.

Smooth running operations with ideal use of human resources.

Aviation Intercom helps managers and controllers of airfields to get pilots airborne and to land safely, while maintaining a high level of safety and security in the hangars and technical areas.

The controller is constantly available to the pilots without always having to be in the tower. The Intercom system provides visual and audio information and support to the place required. For radio

conversations and recording the tower radio system is linked to the Intercom system. This guarantees excellent transmission quality from every Intercom in the facility.

Outside their planes, pilots are given instructions via the public address system and well distributed Intercom terminals. Thus saving long walks and delays in reaction time.



Benefits for Airfield Operators

- ◇ All control and communication functions on one control desk
- ◇ All staff can be reached rapidly, wherever they are within the airfield
- ◇ Increased attractiveness due to interactive pilot support
- ◇ Integrated alarm system (fire, burglar, etc.)
- ◇ Clarity and evidence storage via video recording
- ◇ Stable, high quality radio signal reception for all terminals via link-up to existing radio infrastructure
- ◇ Flexible and efficient use of human resources due to mobility of the controller ("mobile" tower, call forwarding, multi-channel/multi-location radio connection)
- ◇ Signalling and taking of calls at all Intercom terminals

General Aviation Intercom helps operators with limited staffing to keep an overview of the situation. Offering much more than just airfield communication the system integrates voice, images and data to form one common communications platform. The ability to transport various functions to other Intercom terminals makes it possible to deal with the needs of airfield staff and pilots

from various parts of the facility. Staff can also react to forwarded calls from wherever they are – even outside normal operating hours. Video feeds and the integrated alarm system (burglar, fire, etc.) permit the monitoring of sensitive areas of the airfield and ensure that pilots keep to the operational rules. Images of airfield conditions can be fed up to the internet dynamically.

General Aviation Intercom ensures safety – whatever the scale of operations.

The General Aviation Intercom Solution.

General Aviation Intercom is just as suitable for glider fields as it is for airfields and separate general aviation areas of medium size airports. The full integration of all forms of communication technology as well as systems serving security and safety purposes reduces

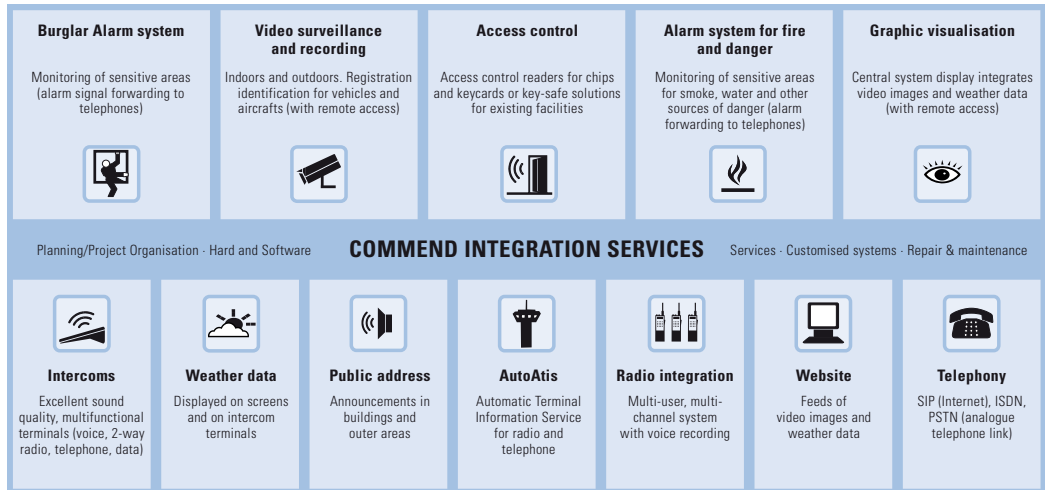
the need for investment. Extendable at any time with compatibility through several technological generations ensures infrastructural investments have a long working life, even if plant functions and capacities are expanded.

General Aviation Intercom System Overview

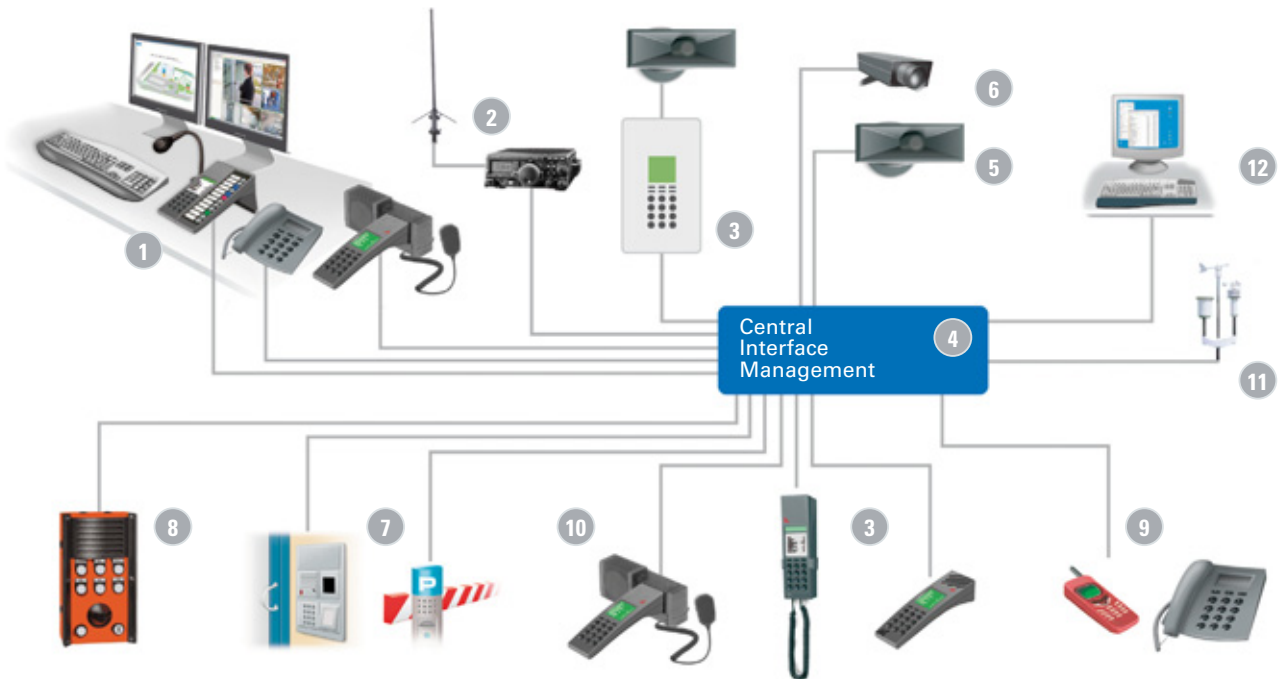
„Security and Communication for General Aviation“

encompasses all the systems used to ensure the safe, secure and convenient operation of all kinds of airfield. The system offers various alarm functions (fire, burglar, etc.), call forwarding and multi-channel/multi-user communication as well as video image and weather data feeds up to the internet.

COMMEND INTEGRATION SERVICES increase the popularity of your airfield and make life easier for controllers and operators.



The complete system for every type of Airfield



Affordable equipment, rapid response, mobile and efficient use of human resources. Monitoring and control of all required signal, alarm and communication channels with a graphic overview of the whole system:

- Central work control station** with visual display of all voice, image and data flows
- Integration of radio system** with existing radio communication

infrastructure

- Application-specific Intercom terminals** for 2-way radio feeds, announcements and constantly updated displays of weather data feeds
- Integrated **communications, alarm and danger warning system**
- Integration of **PA/tannoy system**
- Video integration** – automatic recording of vehicle and aircraft

registrations

- Security for restricted areas** – Door Intercoms, access control modules (card readers/codes)
- Robust Intercom terminals for outdoor applications** (e.g. fuelling station)
- Redirection and forwarding of calls and alarm signals** to telephones; with automatic voice messages (location, status, etc.)

- “Mobile” Tower** – outdoor control desk – including display of weather data and operation of mobile radio without loss of reception/transmission quality
- Link-up with the central weather station**
- Internet information** via feeds of weather data and video image

General Aviation Intercom at a glance.

Core Functions	Key Benefits
1 Integrated communications and alarm system with recording and broadcasting of video	<ul style="list-style-type: none"> ◇ Increased security for buildings and valuables – even outside normal operating hours (burglar alarm, fire alarm, video surveillance, etc.) ◇ Avoids misuse of facilities and offers tracing functions
2 Multi-user, multi-channel radio via integration of the tower radio, with conversation recording included	<ul style="list-style-type: none"> ◇ Listen to radio conversations on all authorised Intercom terminals ◇ Stable high quality radio transmission and reception quality independent of location of operations controller
3 Radio operation and display of weather data on all Intercoms	<ul style="list-style-type: none"> ◇ Automatically generated weather data , also outside normal operating hours ◇ Pre-flight information for pilots via internet and telephone
4 Interactive personal back-up in the hangar, at the fuel pumps, in indoor areas and on the internet	<ul style="list-style-type: none"> ◇ Smooth operations due to immediate accessibility ◇ Mobile airfield operation and management ◇ Telephone calls can be taken at Intercom terminals, i.e. in the hangar
5 Up-feed of weather data and video images into the internet	<ul style="list-style-type: none"> ◇ Long operational life due to modular expandability ◇ Integration of existing systems ◇ Monitoring and control without being present

Different requirements, one supplier.



In the hanger



At access points



Outside



In the tower



At the fuel station



At the "mobile" tower



Inside



On the internet

Commend AG

Zürich · Müllistraße 4 · CH-8320 Fehraltorf / Zürich · Tel. +41-44-955 02 22 · Fax +41-44-955 02 23

Genève · 1A Rue de la Bergère · CH-1217 Meyrin / Genève · Tel. +41-22-782 03 08 · Fax +41-22-782 03 55

commend@commend.ch · www.commend.ch



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