ULTRA I&C

AudioPC® recording system

CAPTURING EVERY CRITICAL MOMENT IN AIR TRAFFIC CONTROL

Features

- Synchronized audio-visual capture for complete situational awareness
- Sub-5-minute incident review capability
- Web-based management via AudioPC® Navigator SOA
- Advanced search and replay through AudioPC Player
- Secure encryption with comprehensive audit trails
- Automated health monitoring with multiple alert options
- Capability for both standalone recording and playback systems and integration into comprehensive national level recording, playback and analysis networks
- Military-grade hardware in standard format
- Ruggedized for 24/7 control tower operation

Overview

Ultra I&C's AudioPC recording system delivers reliable, comprehensive air traffic control recording without dependence on proprietary hardware. Purpose-built for today's aviation safety requirements, AudioPC enables secure recording and replay across diverse operational environments spanning over 200 control towers worldwide.

The system's innovative design prioritizes operational continuity, with synchronized audio and visual capture providing complete situational awareness for post-incident analysis. Packaged as an off-the-shelf solution, AudioPC maintains regulatory compliance while providing robust recording capabilities.

Built on proven recording technology, AudioPC employs Service Oriented Architecture (SOA) to achieve market-leading reliability with minimal management overhead. The system's modular architecture supports multiple deployment configurations, allowing customization to specific organizational requirements.

AudioPC delivers assured recording in critical environments through integrated security features and redundant storage capabilities.

Its proven track record ensures reliable operation across diverse installations, from small regional airports to major international hubs, making it an ideal solution for aviation authorities and emergency response scenarios where comprehensive incident review is essential.

Types of recording supported

| At The Glass (ATG) | Out The Window (OTW) | Through The Wall (TTW) | Analogue Voice Communications | E1 Digital Voice Communications | ED137 |

At The Glass (ATG) recording

Ultra I&C's ATG solutions are CAP670 compliant and capture exactly what the operator sees. All devices include dual supplies and incorporate a 'failsafe' design to ensure any failure does not affect the operator. The ATG solutions can accommodate a wide range of requirements.

ATG capabilities

- HD, 2K & 4K resolution options
- DVI & DP options
- POE or USB power options

Out The Window (OTW) recording

Ultra I&C's recording solutions are configurable to record the panoramic view generated by virtual towers. The recording playback can be synchronized with the associated audio and ATG recording channels to provide a fully integrated replay for event analysis.

Through The Wall (TTW) recording

The Ultra I&C AudioPC recording solution can capture the raw radar video from third party airfield radars. This enables the comparison of radar performance against the track information displayed to an operator in replay analysis.

Audio recording

The Ultra I&C AudioPC recording solution records data from a wide variety of different analogue interfaces at both conventional audio bandwidths of 3.4 kHz and wide bandwidths of up to 37.5 khz. The solution offers support for both analogue and digital telephony inputs including radio, 2/4 wire, ED137, ISDN E1/T1 PCM30, digital PBX extensions (with D channel decoding) and analogue lines with CLI/DTMF.

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