

## SKYCOM RECORDER BY INTELCAN

### SKYCOM RECORD AND REPLAY SYSTEM

**Intelcan provides the latest technology in digitizing and capturing events and actions in your command and control center. Replay and analysis of this recorded authentic data (audio, video, IP, and other) gives you complete visibility of your operations.**

With our tools at hand, your organization gains immediate access to highly reliable recordings of critical information, whether for security reasons, fact finding, incident investigation, training, or process improvement.

Intelcan's SKYCOM recording and playback solution perfectly answers ATC requirements, whether for an Area Control Center, a Control Tower, or other facility by acquiring data from multiple sources.

It allows recording of:

- Analog & digital audio including E1, VoIP, ISDN, and HF/VHF/UHF radio from the VCCS (Voice Communication and Control System)
- Radar data recording in accordance with ICAO's recommendation (Annex 11, Ch. 6)
- Data recording via Ethernet or Serial (example: meteorological information)
- Video recording of workstations/PCs display and actions taken
- Video camera recording (CCTV or IP)
- Data recording of meteorological information

The system provides direct recording and playback of audio messages, originating from/to ATS communications environment, such as RF sources, telephone lines, hot lines, intercom, etc.

Captured data from different sources is fully synchronized with the Master GPS Clock for the airport's control center via NTP, IRIG-B configurable protocols of time and data synchronization.

This makes for a highly dependable playback in accident and incident investigations, search and rescue, air traffic control and surveillance systems evaluation and training.

High availability being a requirement in ATC applications, the system may be configured for full redundancy at the control center thus guaranteeing continuity of service. Recorded data is also stored simultaneously on both equipments.

Should the primary equipment encounter any fault that compromises its operations, the standby equipment seamlessly takes over.

### Data Capture

The data capture function provides data acquisition capability from various sources as well as time stamping and storage of collected data to a specific target media. A provided easy-to-use user interface allows the control of the capture process with capabilities such as start and stop.

### Data Analysis

The Data Analysis function provides the capability of viewing selected recorded data based on available advanced filtering capabilities. Once recorded data is viewed it can be, edited, reduced or exported to supported open standard format as well as removable media.



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## Video Capture

The video capture function performs in blazing speed with no discernable degradation in quality or frame loss.

Featuring uncompressed (or compressed) real-time video capture and recording with time stamping and possibility of interface synchronization with optional IRIG-B, NTP or GPS. Furthermore, the data storage is minimized through the use of high quality codecs which provide high compression ratios.

The recording of the videos is system independent and guarantees a faithful recording which can then be replayed synchronized with capture audio on a desktop PC. Other features include: support for resolutions of up to 1920x1200 at 30 fps and simultaneous recoding and playback.

## Video Playback

The video playback solution enables flawless playback of recorded video content across a wide range of PCs in the industry.

Features include:

- Multiple Playback modes such as repeat sequence and loop.
- Seeking in milliseconds accurately and quickly during playback.
- Explorer-like user interface, very easy to use, no training required.
- Copying, cutting, deleting, renaming files, and creating folders.
- Sorting by File name, Length, Type, Quality, Size and Date Modified.
- Highlighting file format with colors in the player

## Audio Capture

The proposed audio capture solution is compatible with both digital and analogue audio data.

In fact, the solution supports different analogue interfaces from conventional audio bandwidths of 3.4 KHz to wide bandwidths of up to 37.5 KHz.

Furthermore, the solution offers support for both analogue and digital telephony inputs including ISDN E1/T1, digital PBX extensions and analogue lines with CLI/DTMF decoding.

## Audio playback

The audio playback solution offers low latency multichannel sound playback, including studio-grade fidelity.

## About Intelcan Technosystems

Intelcan is the leading Canadian communications, navigation, surveillance and air traffic management (CNS/ATM) system and airport infrastructure solution provider. Integrating Intelcan's own products or utilizing products from a diverse supplier network, Intelcan has delivered complete turnkey solutions both cost-effective and flexible, to fulfill civil and military clients' requirements in over 60 countries, worldwide.

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