

The Remote Tower platform is composed of two main parts:



Remotely Controlled Airport (RCA)

Remote Tower Systems

- 4K Digital Cameras
- PTZ Cameras (Visual/IR)
- Signal Light Gun
- Microphones
- Tracking
- Recording

Airport Systems

- ATM system
- VCCS
- Surveillance sensor
- NAV-aids
- AWOS
- Radios Syem
- Auxiliaries systems

Connection RCA to RTC

- Redundant WAN
- Microwave links
- WI-MAX



Remote Tower Centre (RTC)

Remote Tower Functions

- Video & Audio
- PTZ Control
- Remote Light Gun Operations
- Object and Text Overlays
- Recording & Replay

Services

- Operational
- Single RTM
- Switching Multiple Modes (M-RTM)
- Surveillance sensor

Support

- Training & Simulation

Tower Functions

- FDP/e-Strip
- MET Presentation
- Voice Communication
- Systems Monitoring & Control

Remotely Controlled Airport (RCA)

Hardware

- COTS PTZ Cameras
- COTS Panorama Cameras
- COTS Microphones
- COTS Camera Housing
- Signal Light Gun (SLG)

Cameras

- Panorama cameras
 - UHD [4K] Resolution
 - Up to 30 fps
 - H.264 compression
 - Up to 360 degrees
- PTZ cameras
- FHD Resolution PTZ cameras
- Up to 30 fps
- H.264 compression
- 360 degrees [H]
- +90 to -90 [V]
- Zoom: x30

Signal Light Gun (SLG)

- Range > 5 km

Audio

- Environmental audio encoding

Network & Protocols

- Dual redundant LAN/WAN
- TPC/IP
- UDP (RSTP)
- NTP
- SNMP

Environment

- -40°C to +60°C
- 5% to 100% humidity

Remote Tower Centre (RTC)

Hardware

- COTS servers and workstations
- COTS Displays
- COTS Loudspeakers

Software

- Indra RT software
- Linux OS

Functionalities

- Up to 360 degrees UHD [4k] displaying system
- Airfield sound
- Camera and Signal Light Gun (SLG) controls
- Electronic Flight Strips (EFS)
- Automatic Weather Presentation System (AWOS)
- Operational and technical status presentation
- Recording and Playback

Functionalities

- Meteorological data
- Optical and IR camera presentation
- Tracking presentation (Visual and surveillance)
- Geographical information
- Hotspots and Magnifier
- Patterns and other relevant information

Working positions

- ATCO Positions (CWP)
- Supervisor Positions (SCWP)
- Technical Positions (TWP)

Network

- Dual redundant LAN

More than 100 years partnering with countries for creating skies together

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