



ASTELA

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APCO
3710

APCO P25 MISSION CRITICAL
HANDHELD RADIOS

#PublicSafetyCommunication



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APCO P25 MISSION CRITICAL HANDHELD RADIOS

Excellent range, battery life and audio quality in all digital and analog systems, and rich features to enhance safety and security.

Multiple Operation Modes

ASTELA APCO3710 Handheld Radio can operate in simplex (from radio-to-radio), direct (via repeaters), wide area conventional system and wide area trunk system modes.

In addition to APCO P25, DMR communication protocol is supported on the same hardware. Radio users can switch between APCO P25 and DMR via radio menu. This software-based support is offered as an optional item.

Furthermore, this radio has backward compatibility with legacy analog FM radios, which provides radio users with the possibility of easy transition from analog to digital communication.

Resilience to Severe Environmental Conditions

Institutions in charge of public safety may need to use these radios in challenging environments such as very high or very low temperature, high humidity, low pressure, sand and dust. In addition, these users may need to be in action most of the time, which requires a rigid design against vibration and drop. ASTELA APCO3710 Handheld Radio is designed by considering these requirements and supports MIL STD 810G standards. Furthermore, IP67 Ingress Protection is supported by this radio.

Real-Time Location Tracking

Thanks to the integrated GNSS module, ASTELA APCO3710 Handheld Radio can detect its current location depending on the received signals from GPS, GLONASS and GALILEO satellites. In addition, radio users can send their locations -manually or automatically- in all digital operation modes.

A Wide Range of Peripheral Units and Audio Accessories Including Wireless Options

Depending on the use scenario, additional peripheral units and accessories may be needed by the radio users such as covert operations, hands-free use via VOX, charging the radio in vehicle. Thanks to the integrated bluetooth module option of ASTELA APCO3710 Handheld Radio, and ASELSAN inventory of peripheral units and audio accessories, radio users can choose whatever they need for their own specific needs.

Flexibility of Customization

Radio communication system operators may need to give different type of authorizations to radio users depending on their organizations and tasks. By programming/updating the parameters of the radios, it can be ensured that all radio users have different menus/options on their devices.

ASTELA APCO3710 Handheld Radio has a flexible hardware and software structure enabling multiple languages on the radio. Additionally, "colored screen" and "no screen/no keypad" options are offered to the radio users.

General Properties

- Trunk or Conventional
- Built-in GPS Option
- Vibration Option
- Bluetooth Option
- Software/Hardware Encryption Option
- AES-256/Customized Algorithm Options
- Mandown/Lone Worker Option
- Smart Battery Alternatives
- Desktop or Vehicular Charger
- Various Audio Accessories
- Colored Display
- Seamless UX Experience Across 3700 Family
- Caller ID
- Informative Alerts

Technical Properties

Frequency	: VHF (136-174 MHz) or UHF (380-470 MHz)
RF Output Power	: 5W
Channel Capacity	: 999
Dimensions	: 120 x 55 x 29.4 mm (HxWxD Without Projections)
Weight	: 300 gr
Display	: 2" Color LCD (320x240)
Bluetooth	: Optional
Accelerometer	: Available
Light Sensor	: Available
GNSS	: Available
Battery Life	: 5:5:90 and 2200 mAh Battery: Analog / APCO: > 20 Hours; DMR: > 26 Hours
Operating Temperature	: -30°C / +60°C (Transceiver), -20°C / +60°C (Battery)
Storage Temperature	: -40°C / +85°C (Transceiver), -20°C / +50°C (Battery)

Standards and Certificates

APCO P25	: EIA/TIA 102
Low Voltage	: EN 60950, IEC 62368
EMC	: EN 301 489-1, EN 55032
Digital	: EN 300 113-2
Analog	: EN 300 086-2
Ingress Protection	: IP67 (IEC 60529)
ESD	: EN 61000-4-2 (Discharge: Contact \pm 4 kV / Air: \pm 8 kV)
Low Pressure	: MIL-STD-810G M 500.6 Pro I, II
High Temperature	: MIL-STD-810G M 501.6 Pro I Cat-A1, Pro II Cat- A1
Low Temperature	: MIL-STD-810G M 502.6 Pro I Cat C2, Pro II Cat C1
Temperature Shock	: MIL-STD-810G M 503.6 Pro I-B
Solar Radiation	: MIL-STD-810G M 505.6 Pro I
Rain	: MIL-STD-810G M 506.6 Pro I, III
Humidity	: MIL-STD-810G M 507.6 Pro II
Salt Fog	: MIL-STD-810G M 509.6
Sand and Dust	: MIL-STD-810G M 510.6 Pro I, II
Vibration	: MIL-STD-810G M 514.7 Pro I Cat 24
Shock	: MIL-STD-810G M 516.7 Pro I, IV
Display Strength	: BS IEC 61747-40-5 (64 gr, R25 mm Steel Ball from 45 cm Height)

Specifications are subject to change without any notice. | All tolerances are within \pm 10%.