

CANNON XTREME

OUTDOOR ENCLOSURE PROTECTION FOR EXTREME ENVIRONMENTS



OVERVIEW

The CANNON XTREME is a ruggedised and environmentally protected life support system which enables sensitive electronics & communication equipment to survive and perform in challenging outdoor climatic conditions, harsh environments and wide ranging physical dangers in civil and military scenarios.

Cannon Technologies is a world-leading provider of energy-efficient, modular data center infrastructure solutions, outdoor enclosures & cabinets, professional services and technical support.

Cannon's success lies in its team of skilled professionals whose depth of experience is unmatched, technology that sets the standard for the industry, and an unwavering commitment to providing excellent support for its customers.

Over its history Cannon has produced over 150 different designs of outdoor enclosures; these break out into four distinct categories. Cannon has named these differing types as follows:

- A-TYP
- C-TYP
- D-TYP
- S-TYP

Overview

The CANNON XTREME is a ruggedised and environmentally protected life support system enabling sensitive electronics & communication equipment to survive and perform in challenging outdoor climatic conditions, harsh environments i.e. Middle East, Africa etc. and wide ranging physical dangers in civil and military scenarios . Typical equipment being housed includes Computer, DVR, CCTV, Communications, Surveillance, Switches, Routers etc. and in many cases includes power rectification and battery back-up. The enclosures are normally multi chambered and enables the differing facilities to be separated for security/specific thermal requirements i.e. a separate battery chamber requiring lower operating temperature than active equipment chamber.

MULTI LAYERED PROTECTION

Using Aerospace technology, Cannon have developed a matrix of techniques to equip the CANNON XTREME with highly effective heat reduction and additional protective characteristics. This capability resists extreme solar gain from hot sun rays and reduces heat absorption from high temperature ambient air.

A carefully balanced combination of sun shielding panels, double thermal air gaps and highly efficient insulation layers create a uniquely effective heat resisting barrier.

Additional essential features protect against the dangers of dust, humidity, rain, moisture and physical attack.

XTREME OUTDOOR



FEATURES

- Ruggedised for harsh environments
- Electronic Key Pads / RFID / Bio-Metrics
- Solar shield panels for heat transfer protection
- Seismic protection up to Zone level 4
- High EMC and IP double seal protection
- Up to IP65 Protection against dust and water ingress



Multiple layers of insulation and additional solar shields provide XTREME with outstanding thermal shock protection in high extreme temperatures and solar heat.

INFORMED CONTROL

Options include remote keyless access control, alarms for security breaches or out of tolerance conditions providing mission critical infrastructure with positive monitoring and superior system management.

Monitoring & alarm warning for critical issues include temperature, humidity, flood, shock, security, smoke and fire can be combined with early warning of system failure that enables timely intervention to maintain service, security and safety.

SHOCK PROTECTION UPGRADES

Seismic resilience and shock attenuation upgrades are available to protect electronic equipment, servers and communication equipment when deployed in earth quake zones or where ground borne shock waves may be generated from mining or other vibration producing activities.

HIGH PERFORMANCE COOLING

The pre-engineered advantages are combined with highly efficient & dynamic cooling systems that maintain critical electronic and communications equipment within optimum operational conditions. This maximises uptime and ensures the reliability of equipment and services, reducing the costs associated with the servicing or replacement of prematurely failed components and equipment.

A range of cooling capacities are available, including high performance systems which are rated to cope with very low or very high ambient temperatures. Specially engineered cooling systems for coastal deployments, offer marine protection against the effects of salt corrosion.

This holistic design draws on forty years of global experience in supporting critical infrastructure projects in challenging Middle East deployments, recent theatres of war and various other extreme conditions.



BENEFITS

- Low PUE providing energy & OPEX saving
- Low maintenance options reducing service costs
- Remote monitoring reducing site visit costs
- Proven design protecting key network infrastructure
- Cooling control system, extending life of components, saving replacement and service costs

HIGH SECURITY STAINLESS STEEL LOCKS

In the modern world Mission critical assets must clearly be protected with high security locking systems to protect against casual opportunistic break in or against more sinister penetration. Cannon has developed and installs unique Stainless Steel locks to all Cannon XTREME enclosures. These high security mechanisms substantially resist persistent attack and will accept a wide range of high security lock cylinders. The high grade Stainless Steel also resists environmental or chemical attack .

CANNON GUARD, REMOTE ACCESS CONTROL and SECURITY

The Cannon High Security Stainless Steel lock is designed to accept the Cannon upgrade pack which will convert the installation to a remote controlled locking system.

This system is remotely controlled by our "Cannon-Guard" security system enabling remote lock activation from any where around the world. Video surveillance systems are also available for positive monitoring together with two way audio which assists with on the spot engineering guidance. Full alarm capability and an audit trail capability increases positive security and records of alarm or intrusion activation.

RUGGED LONG LIFE ENCLOSURE

Drawing on extensive experience Cannon builds highly reliable enclosure systems utilising high strength materials which are multi walled construction that is further protected with advanced surface treatments. These attributes resist unauthorised penetration and extend the operational life, supporting critical missions.

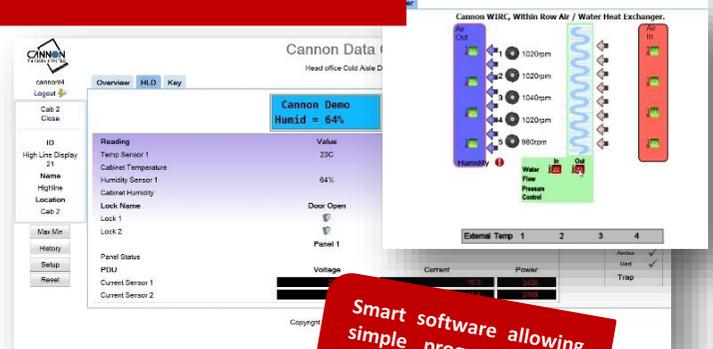
IP and NEMA rated solutions are also provided.

COOLING SOLUTIONS



SECURE SOLUTIONS

MONITORING SOLUTIONS



Smart software allowing simple programming of locks, monitoring and alarm configurations.



Cannon DCIM comprises hardware and software including;

- Electronic Remote Access Locks
- Electronic Key Pads / RFID / Bio-Metrics
- Audio / Video Camera monitoring
- Sensors (Thermal, humidity, alarms etc.)
- Asset Management, Power/Integrated cooling systems Monitoring & Control

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Additional Products available from
Cannon Technologies Group :

- Modular Data Centres
 - Cannon Data Campus
 - Cannon GLOBE TROTTER
 - Cannon GMDC
 - Cannon Mini/Micro DC
 - Ruggedized DC Cases
- IT Infrastructure
 - 19" Server Cabinets
 - Patch Frames
 - Free Form Containment
 - Cold/Hot Aisle Containment
 - Air Management
 - Cooling Solutions
 - UPS & Power
- Techni-Cabins
 - Mobile-Cell & Mast Stations
 - Outdoor Cabinets & Enclosures

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