

Correctional Service Canada
Technical Services Branch
Electronics Systems

ES/STD-0207
Revision 1
23 May, 2003

ELECTRONICS ENGINEERING
STANDARDS

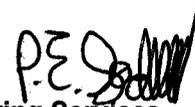
HIGH SECURITY ENCLOSURE
CLOSED CIRCUIT TELEVISION

Prepared by:



Manager,
Electronics Systems Research

Approved by:



Director,
Engineering Services

13 Jan 03

1.0 SCOPE

This standard defines the requirements of Correctional Service of Canada (CSC) for Closed Circuit Television (CCTV) high security camera enclosures for indoor use at federal correctional institutions.

2.0 GENERAL

High security indoor enclosures are used in security surveillance and assessment areas and require maximum protection from vandalism. The enclosure is attached flush to walls or ceiling of detention cells with no exposed mounting hardware. The front cover has an impact-resistant clear lexan window. With the enclosure being mounted in "difficult to access" locations, reliability and ease of maintenance are essential.

3.0 ENVIRONMENTAL REQUIREMENTS

The high security enclosure shall operate over the following conditions:

- 3.1 Temperature: 0° C to +50° C; and
- 3.2 Humidity: 0 to 95%, non-condensing.

4.0 MECHANICAL REQUIREMENTS

The external dimensions of the enclosure shall not exceed:

- 4.1 Width: 350 mm;
- 4.2 Height: 300 mm;
- 4.3 Depth: 350 mm; and
- 4.4 Weight: 10 kg.

5.0 DESIGN REQUIREMENTS

The high security enclosure shall have:

- 5.1 1.27 cm. thick impact and abrasion-resistant clear lexan window.

-
- 5.2 an adjustable camera mount with ¼" diameter mounting holes.
 - 5.3 no exposed power or video cables.
 - 5.4 tamper-resistant screws where authorized access to the enclosure is required.
 - 5.4 steel construction, 10 gauge, and have a life expectancy of at least five years.
 - 5.5 a label permanently affixed to the interior of the unit which identifies the manufacturer, the model or assembly number, the serial number and the mains power requirements.

6.0 FUNCTIONAL REQUIREMENTS

The high security enclosure shall:

- 6.1 be tamper proof and use secure screws to allow access to the enclosure for maintenance purposes.
- 6.2 be properly filtered to prevent dust, water or insects from entering the enclosure.
- 6.3 provide 10,000 hours or more Mean Time Between Failure (MTBF) and be built for high reliability.
- 6.4 be accessible for ease of maintenance and camera position adjustment.

7.0 INTERFERENCE

Performance of the enclosure shall not be affected by the use of standard electronic equipment at the institution. Distance limits of standard electronic equipment are as follows:

- 7.1 CB transceivers at 1 metre or more;
- 7.2 VHF and UHF transceivers at 1 metre or more;
- 7.3 Other radio frequency transmitting, receiving and distribution equipment at 5 metres or more; and
- 7.4 Personal computer and/or computer work stations at 5 metres or more.

8.0 **SAFETY**

The high security enclosure shall be CSA approved.

- END OF TEXT -