



Communications
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CANADIAN CENTRE^{FOR} **CYBER SECURITY**

COMMON CRITERIA CERTIFICATION REPORT

High Sec Labs DK82PHU-4TR,
SX42PHU-4TR, SX82PHU-4TR,
SC42PHU-4TR, SC82PHU-4TR,
SC162PHU-4TR Ruggedized KVM Devices
Firmware Version 44444-R7R7

28 November 2025

671-EWA

V1.0

FOREWORD

This certification report is an UNCLASSIFIED publication, issued under the authority of the Chief, Communications Security Establishment (CSE).

The Information Technology (IT) product identified in this certification report, and its associated certificate, has been evaluated at an approved testing laboratory established under the Canadian Centre for Cyber Security (a branch of CSE). This certification report, and its associated certificate, applies only to the identified version and release of the product in its evaluated configuration. The evaluation has been conducted in accordance with the provisions of the Canadian Common Criteria Program, and the conclusions of the testing laboratory in the evaluation report are consistent with the evidence adduced.

This report, and its associated certificate, are not an endorsement of the IT product by Canadian Centre for Cyber Security, or any other organization that recognizes or gives effect to this report, and its associated certificate, and no warranty for the IT product by the Canadian Centre for Cyber Security, or any other organization that recognizes or gives effect to this report, and its associated certificate, is either expressed or implied.

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OVERVIEW

The Canadian Common Criteria Program provides a third-party evaluation service for determining the trustworthiness of Information Technology (IT) security products. Evaluations are performed by a commercial Common Criteria Testing Laboratory (CCTL) under the oversight of the Certification Body, which is managed by the Canadian Centre for Cyber Security.

A CCTL is a commercial facility that has been approved by the Certification Body to perform Common Criteria evaluations; a significant requirement for such approval is accreditation to the requirements of ISO/IEC 17025, the General Requirements for the Competence of Testing and Calibration Laboratories.

By awarding a Common Criteria certificate, the Certification Body asserts that the product complies with the security requirements specified in the associated security target. A security target is a requirements specification document that defines the scope of the evaluation activities. The consumer of certified IT products should review the security target, in addition to this certification report, to gain an understanding of any assumptions made during the evaluation, the IT product's intended environment, the evaluated security functionality, and the testing and analysis conducted by the CCTL.

The certification report, certificate of product evaluation and security target are posted to the Common Criteria portal (the official website of the International Common Criteria Program).



TABLE OF CONTENTS

EXECUTIVE SUMMARY	6
1 Identification of Target of Evaluation	7
1.1 Common Criteria Conformance.....	7
1.2 TOE Description	7
1.3 TOE Architecture	7
2 Security Policy.....	9
3 Assumptions and Clarification of Scope	10
3.1 Usage and Environmental Assumptions.....	10
3.2 Clarification of Scope	10
4 Evaluated Configuration.....	11
4.1 Documentation.....	11
5 Evaluation Analysis Activities	12
5.1 Development.....	12
5.2 Guidance Documents	12
5.3 Life-Cycle Support	12
6 Testing Activities	13
6.1 Assessment of Developer tests.....	13
6.2 Conduct of Testing.....	13
6.3 Independent Testing.....	13
6.3.1 Independent Testing Results	13
6.4 Vulnerability Analysis	14
6.4.1 Vulnerability Analysis Results	14
7 Results of the Evaluation	15
7.1 Recommendations/Comments.....	15
8 Supporting Content.....	16
8.1 List of Abbreviations	16
8.2 References.....	16



LIST OF FIGURES

Figure 1: TOE Architecture	8
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LIST OF TABLES

Table 1: TOE Identification	7
-----------------------------------	---



EXECUTIVE SUMMARY

High Sec Labs DK82PHU-4TR, SX42PHU-4TR, SX82PHU-4TR, SC42PHU-4TR, SC82PHU-4TR, SC162PHU-4TR Ruggedized KVM Devices Firmware Version 44444-R7R7 (hereafter referred to as the Target of Evaluation, or TOE), from **High Sec Labs Ltd.**, was the subject of this Common Criteria evaluation. A description of the TOE can be found in Section 1.2. The results of this evaluation demonstrate that the TOE meets the requirements of the conformance claim listed in Section 1.1 for the evaluated security functionality.

EWA-Canada is the CCTL that conducted the evaluation. This evaluation was completed on **28 November 2025** and was carried out in accordance with the rules of the Canadian Common Criteria Program.

The scope of the evaluation is defined by the Security Target, which identifies assumptions made during the evaluation, the intended environment for the TOE, and the security functional/assurance requirements. Consumers are advised to verify that their operating environment is consistent with that specified in the security target, and to give due consideration to the comments, observations, and recommendations in this Certification Report.

The Canadian Centre for Cyber Security, as the Certification Body, declares that this evaluation meets all the conditions of the Arrangement on the Recognition of Common Criteria Certificates and that the product is listed on the Certified Products list (CPL) for the Canadian Common Criteria Program and the Common Criteria portal (the official website of the International Common Criteria Program).

1 IDENTIFICATION OF TARGET OF EVALUATION

The Target of Evaluation (TOE) is identified as follows:

Table 1: TOE Identification

TOE Name and Version	High Sec Labs DK82PHU-4TR, SX42PHU-4TR, SX82PHU-4TR, SC42PHU-4TR, SC82PHU-4TR, SC162PHU-4TR Ruggedized KVM Devices Firmware Version 44444-R7R7
Developer	High Sec Labs Ltd.

1.1 COMMON CRITERIA CONFORMANCE

The evaluation was conducted using the Common Methodology for Information Technology Security Evaluation, Version 3.1 Revision 5, for conformance to the Common Criteria for Information Technology Security Evaluation, Version 3.1 Revision 5.

The TOE claims the following conformance:

- Protection Profile for Peripheral Sharing Device, Version 4.0
- PP-Module for Keyboard/Mouse Devices, Version 1.0
- PP-Module for Video/Display Devices, Version 1.0
- PP-Module for User Authentication Devices, Version 1.0

1.2 TOE DESCRIPTION

The TOE are ruggedized KVM devices with passive anti-tampering (e.g., tamper evident labels) and isolated microcontrollers designed to prevent unauthorized data flow.

1.3 TOE ARCHITECTURE

In the evaluated configuration, the TOE is connected to a keyboard, a mouse, a user authentication device, and up to sixteen computers. All KVM devices can be used with a wired remote control. MIL-DTL-38999 55 pin connectors are used on the TOE's console and computer ports.

A diagram of the TOE architecture is as follows:

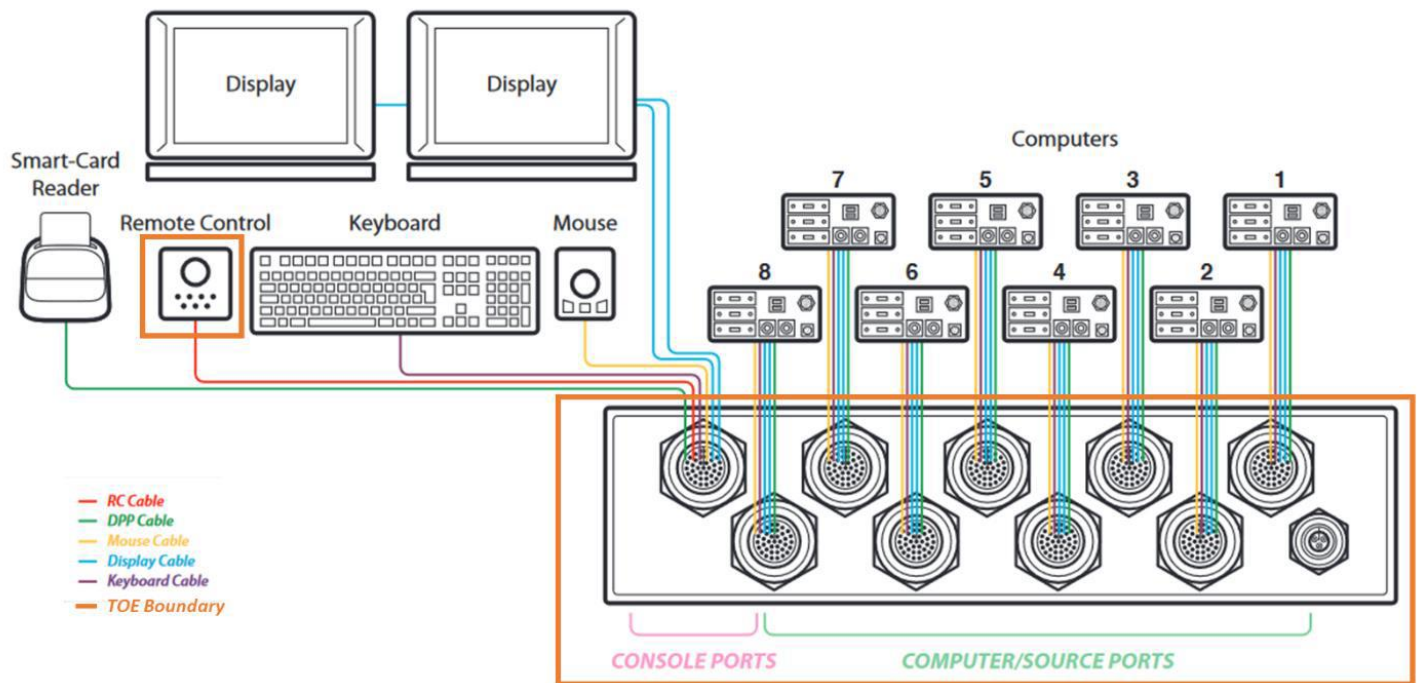


Figure 1: TOE Architecture

2 SECURITY POLICY

The TOE implements and enforces policies pertaining to the following security functionality:

- User Data Protection
- Protection of the TSF
- TOE Access

Complete details of the security functional requirements (SFRs) can be found in the Security Target (ST) referenced in section 8.2.

3 ASSUMPTIONS AND CLARIFICATION OF SCOPE

Consumers of the TOE should consider assumptions about usage and environmental settings as requirements for the product's installation and its operating environment. This will ensure the proper and secure operation of the TOE.

3.1 USAGE AND ENVIRONMENTAL ASSUMPTIONS

The following assumptions are made regarding the use and deployment of the TOE:

- Computers and peripheral devices connected to the PSD are not TEMPEST approved.
- The environment provides physical security commensurate with the value of the TOE and the data it processes and contains.
- The environment includes no wireless peripheral devices.
- PSD Administrators and users are trusted to follow and apply all guidance in a trusted manner.
- Personnel configuring the PSD and its operational environment follow the applicable security configuration guidance.
- All PSD users are allowed to interact with all connected computers. It is not the role of the PSD to prevent or otherwise control user access to connected computers. Computers or their connected network shall have the required means to authenticate the user and to control access to their various resources.
- The computers connected to the TOE are not equipped with special analog data collection cards or peripherals such as analog to digital interface, high performance audio interface, digital signal processing function, or analog video capture function.

3.2 CLARIFICATION OF SCOPE

For this evaluation, the TOE was tested using devices supporting DP 1.1a, DP 1.2 (for some tests), HDMI 1.4, USB 2.0, and CCID Revision 1.1 (for UA). The TOE implements up to DP 1.3 and HDMI 2.0 but was not tested at these protocol versions.

4 EVALUATED CONFIGURATION

The evaluated configuration for the TOE comprises:

TOE Software/Firmware	High Sec Labs Firmware Version 44444-R7R7
TOE Hardware	<p>KVM Switch:</p> <ul style="list-style-type: none"> DK82PHU-4TR, p/n CGA29437 <p>Mini-Matrix Devices:</p> <ul style="list-style-type: none"> SX42PHU-4TR, p/n CGA28894 SX82PHU-4TR, p/n CGA28724 <p>Combiners:</p> <ul style="list-style-type: none"> SC42PHU-4TR, p/n CGA29364 SC82PHU-4TR, p/n CGA29364 SC162PHU-4TR, p/n CGA29357 <p>With the following remotes:</p> <ul style="list-style-type: none"> WR40-4TR, p/n CGA22528 WR80-4TR, p/n CGA36278 WR80PC-4, p/n CGA31359 WX40-4TR, p/n CGA36249 WX80-4TR, p/n CGA28726
Environmental Support	General purpose USB keyboard, mouse, and smartcard reader

4.1 DOCUMENTATION

The following documents are provided to the consumer to assist in the configuration and installation of the TOE:

- HSL Quick Installation Guide 8 Ports Secure Rugged DH KVM Switch, HLT34355 Rev 1.2
- HSL Quick Installation Guide 4/8 Ports Secure Rugged Mini-Matrix KVM Switch, HLT34356 Rev 1.3
- HSL Quick Installation Guide 4/8/16 Ports Secure Rugged Combiner KVM Switch, HLT34765 Rev 1.3
- HDC34974 Rugged Combiner (SC42PHU-4TR) – Interface Control Document, Revision B, Feb 23, 2025
- HDC37736 Rugged Dual Head 8 Ports KVM (DK82PHU-4TR) – Electrical Interface Control Document, Revision A, Oct 26, 2025
- High Sec Labs DK82PHU-4TR, SX42PHU-4TR, SX82PHU-4TR, SC42PHU-4TR, SC82PHU-4TR, SC162PHU-4TR Ruggedized KVM Devices Firmware Version 44444-R7R7 Common Criteria Guidance Supplement, Version 1.0

5 EVALUATION ANALYSIS ACTIVITIES

The evaluation analysis activities involved a structured evaluation of the TOE. Documentation and process dealing with Development, Guidance Documents, and Life-Cycle Support were evaluated.

5.1 DEVELOPMENT

The evaluators analyzed the documentation provided by the vendor; they determined that the design completely and accurately describes the TOE security functionality (TSF) interfaces and how the TSF implements the security functional requirements. The evaluators determined that the initialization process is secure, that the security functions are protected against tamper and bypass, and that security domains are maintained.

5.2 GUIDANCE DOCUMENTS

The evaluators examined the TOE preparative user guidance and operational user guidance and determined that it sufficiently and unambiguously describes how to securely transform the TOE into its evaluated configuration and how to use and administer the product. The evaluators examined and tested the preparative and operational guidance and determined that they are complete and sufficiently detailed to result in a secure configuration.

Section 4.1 provides details on the guidance documents.

5.3 LIFE-CYCLE SUPPORT

An analysis of the TOE configuration management system and associated documentation was performed. The evaluators found that the TOE configuration items were clearly marked.

The evaluators examined the delivery documentation and determined that it described all the procedures required to maintain the integrity of the TOE during distribution to the consumer.

6 TESTING ACTIVITIES

Testing consists of the following three steps: assessing developer tests, performing independent tests, and performing a vulnerability analysis.

6.1 ASSESSMENT OF DEVELOPER TESTS

The evaluators verified that the developer has met their testing responsibilities by examining their test evidence, and reviewing their test results, as documented in the Evaluation Test Report (ETR). The correspondence between the tests identified in the developer's test documentation and the functional specification was complete.

6.2 CONDUCT OF TESTING

The TOE was subjected to a comprehensive suite of formally documented, independent functional and penetration tests. The detailed testing activities, including configurations, procedures, test cases, expected results and observed results are documented in a separate Test Results document.

6.3 INDEPENDENT TESTING

During this evaluation, the evaluator developed independent functional & penetration tests by examining design and guidance documentation.

All testing was planned and documented to a sufficient level of detail to allow repeatability of the testing procedures and results. The following testing activities were performed:

- a. PP Assurance Activities: The evaluator performed the assurance activities listed in the claimed PP

6.3.1 INDEPENDENT TESTING RESULTS

The developer's tests and the independent tests yielded the expected results, providing assurance that the TOE behaves as specified in its ST and functional specification.

6.4 VULNERABILITY ANALYSIS

The vulnerability analysis focused on 4 flaw hypotheses.

- Public Vulnerability based (Type 1)
- Evaluation team generated (Type 3)
- Technical community sources (Type 2)
- Tool Generated (Type 4)

The evaluators conducted an independent review of all evaluation evidence, public domain vulnerability databases and technical community sources (Type 1 & 2). Additionally, the evaluators used automated vulnerability scanning tools to discover potential network, platform, and application layer vulnerabilities (Type 4). Based upon this review, the evaluators formulated flaw hypotheses (Type 3), which they used in their vulnerability analysis.

Type 1 & 2 searches were conducted on **25 November 2025** and included the following search terms:

High Sec Labs	Highseclabs KVM	44444-R7R7
HSL	Highseclabs switch	DisplayPort
Highseclabs	Highseclabs peripheral sharing	HDMI
EDID	TOE Name and Version (see Section 4)	Controllers (see Letter of Volatility)

Vulnerability searches were conducted using the following sources:

National Vulnerability Database https://nvd.nist.gov/vuln/search	Known Exploited Vulnerabilities Catalog https://www.cisa.gov/known-exploited-vulnerabilities-catalog
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6.4.1 VULNERABILITY ANALYSIS RESULTS

The vulnerability analysis did not uncover any security relevant residual exploitable vulnerabilities in the intended operating environment.

7 RESULTS OF THE EVALUATION

The Information Technology (IT) product identified in this certification report, and its associated certificate, has been evaluated at an approved testing laboratory established under the Canadian Centre for Cyber Security. This certification report, and its associated certificate, apply only to the specific version and release of the product in its evaluated configuration.

This evaluation has provided the basis for the conformance claim documented in Section 1.1. The overall verdict for this evaluation is **PASS**. These results are supported by evidence in the ETR.

7.1 RECOMMENDATIONS/COMMENTS

It is recommended that all guidance outlined in Section 4.1 be followed to configure the TOE in the evaluated configuration.



8 SUPPORTING CONTENT

8.1 LIST OF ABBREVIATIONS

Term	Definition
CCTL	Common Criteria Testing Laboratory
CSE	Communications Security Establishment
DP	Display Port
ETR	Evaluation Technical Report
HDMI	High-Definition Multimedia Interface
IT	Information Technology
PP	Protection Profile
SFR	Security Functional Requirement
ST	Security Target
TOE	Target of Evaluation
TSF	TOE Security Function

8.2 REFERENCES

Reference
Common Criteria for Information Technology Security Evaluation, Version 3.1 Revision 5, April 2017
Common Methodology for Information Technology Security Evaluation, CEM, Version 3.1 Revision 5, April 2017
High Sec Labs DK82PHU-4TR, SX42PHU-4TR, SX82PHU-4TR, SC42PHU-4TR, SC82PHU-4TR, SC162PHU-4TR Ruggedized KVM Devices Firmware Version 44444-R7R7 Security Target, Version 1.0, October 31, 2025
Evaluation Technical Report Common Criteria Evaluation of High Sec Labs SX42PHU-4TR, SX82PHU-4TR, SC42PHU-4TR, SC82PHU-4TR, SC162PHU-4TR Ruggedized KVM Devices Firmware Version 44444-R7R7, Version 0.8, 28 November 2025
Assurance Activity Report High Sec Labs SX42PHU-4TR, SX82PHU-4TR, SC42PHU-4TR, SC82PHU-4TR, SC162PHU-4TR Ruggedized KVM Devices, Firmware Version 44444-R7R7, Version 0.8, 28 November 2025