



## QPS Evaluation Services Inc.

Testing, Certification, and Field Evaluation Body  
Accredited in Canada, the USA and Internationally



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**TESTING - CERTIFICATION - FIELD EVALUATION  
Energy Efficiency Verification - CB Scheme - IECEx Scheme  
CE Marking - ATEX**

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<b>Customer File No:</b> LR1123	<b>Report No:</b> LR1123-1	<b>Issue Date:</b> November 3, 2011
Issued By: George Shu 	Reviewed By: Scott Airdrie 	
<b>Customer Name:</b> Nanoptix Inc.	<b>Address:</b> 699 Champlain Street, Dieppe, New Brunswick, Canada E1A 1P6	
Contents: Certificate of Conformity: 1 Page; Report: Pages 1 to 14 Photos: Pages 6-12		

Project No. and Date	Revised By	Reviewed By	Pages:	Description of Changes:
LR 11123-1 November 3, 2011	--	--	--	Original report. Transfer from QPS/SGS report number LRE1123-1/1991504

**SUBJECT**

Component type thermal printer. Rated DC 24V, 2.4A, Class III.

Model name:

- PayCheck Slim (103665)
- PayCheck 3 (103563)
- PayCheck 4 (950020)
- Paycheck H/S Couponing (950011)

Desktop thermal printer, model PayCheck DeskTop (950021). Rated DC 24V, 2.4A, Class III.

**APPLICABLE STANDARDS**

The product was tested/evaluated to the following standards:

- Information Technology Equipment – Safety – Part 1: General Requirements, CSA C22.2 No. 60950-1-07, Second Edition, Dated March 27, 2007.
- Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1 Second Edition, Dated March 27, 2007.

## CONDITIONS OF ACCEPTABILITY

The products covered in this report are incomplete in construction features or limited in performance capabilities and are intended for use and evaluation in association with other product(s). Consideration should be given to the following when the component is used in or with another product.

1. The end-use product that incorporates this Component Type Thermal Printer shall be separately evaluated to the applicable standard(s);
2. The equipment powered by an appropriately certified (external) SELV Power Supply with an output rating of 24Vdc, 2.50Amps (minimum); and
3. Final (electrical) installation shall comply with NEC Part 1 (NFPA 70) for USA and CEC Part I for Canada respectively.
4. Temperature Testing should be considered on this component when installed in the end product higher than 50°C ambient.

## MARKINGS

### On the Equipment Exterior:

Equipment is plainly marked in a permanent manner in a place where the details will be readily visible after the installation with the following:

1. Markings – The product is marked using lettering on a pressure-sensitive label as described in this report.

### On the Equipment Exterior:

Equipment is plainly marked in a permanent manner in a place where the details will be readily visible after installation with the following:

The following markings are required:

- The cQPSus Certification Mark; the letter “C” must appear in the 8 O’clock position and the letters “US” must appear in the 4 O’clock position adjacent to the QPS Certification Mark;
- The qualifying statement ”Electrical Safety” or the equipment standard number must appear directly below the Certification Mark;



- applicant's identification - company name, trademark or QPS file reference (LR1123);
- Model designation;
- date code/serial number;
- complete electrical ratings – (DC 24V, 2.4A)

Installation, Operating and Safety Instructions – Safety instruction of this product is provided by the manufacturer as required by the standard.

**DESCRIPTION**

The product is a component type thermal printer, supplied by an appropriately certified (external) SELV Power Supply with an output rating of 24Vdc, 2.5Amps (minimum).

PayCheck 4 (Model number 950020) is similar to the PayCheck 3 (Model number 103563), except that the metallic drawer (of PayCheck 3) is replaced by a polymeric drawer of the same dimensions (for PayCheck 4).

PayCheck Slim (Model Number: 103665) is similar in functionality to PayCheck 3 (Model number 103563), except that the printer module is vertically mounted to the metallic chassis.

Paycheck H/S Couponing (Model Number: 950011) is similar to PayCheck Slim (Model Number: 103665), except the printer module, chassis and additional enclosure.

PayCheck DeskTop (Model Number: 950021) is a desktop thermal printer incorporating either PayCheck 3 or PayCheck 4 component printer.

**POWER CONNECTIONS**

DC jack, supplied by an appropriately certified (external) SELV Power Supply with an output rating of 24Vdc, 2.5Amps (minimum).

**FACTORY TESTS: N/A**

No manufacturing or production line tests are required since the products covered under this report are powered through an approved SELV Power Supply.

**Tests**

The model was presented as a representative sample of the product and subjected to the test requirements of CSA C22.2 No. 60950-1-07, Second Edition, Dated March 27, 2007, UL 60950-1 Second Edition, Dated March 27, 2007 with satisfactory results under project LRE1123-1 dated April 29, 2010.

The following tests were performed as specified under project LRE1123-1 dated April 29, 2010. No further tests were considered necessary.

UL60950-1/CSA-C22.2 No. 60950-1-07 CLAUSE NO.	INFORMATION
1.6.2	Input Current
1.7.13	Durability Test
4.5.1	Heating test
5.3	Abnormal operation and fault conditions

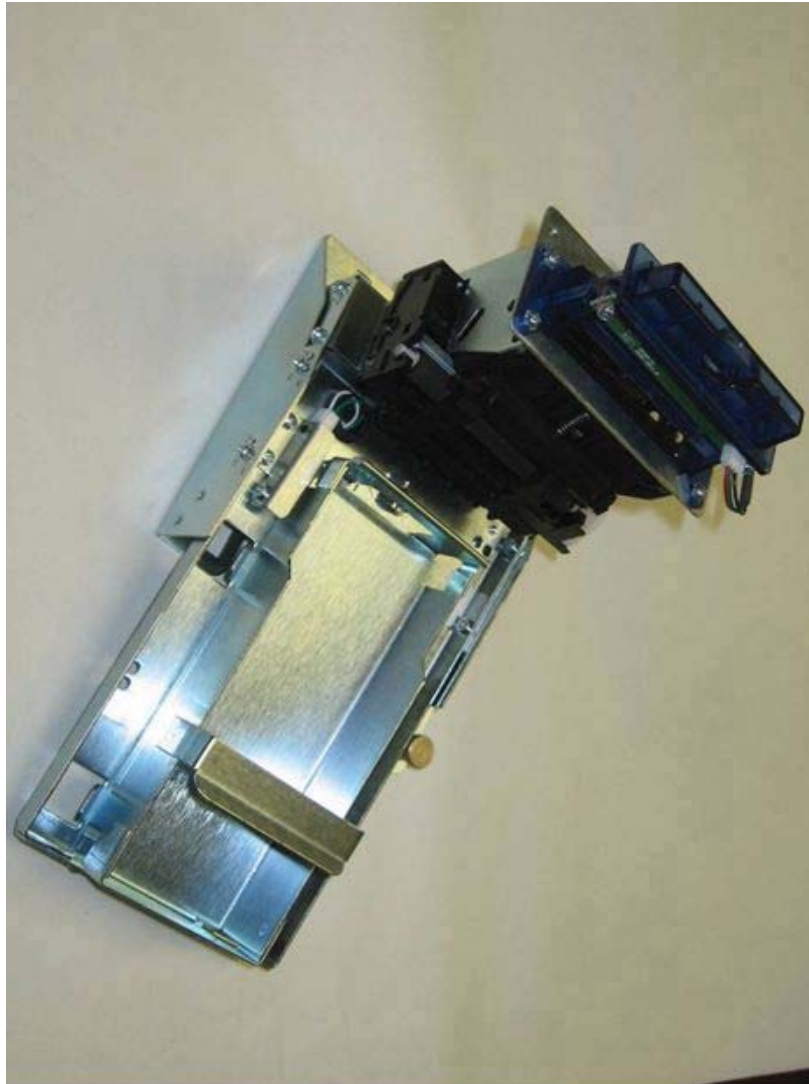
The test methods and results of the above tests have been reviewed and found in compliance with the requirements in CSA C22.2 No. 60950-1-07 and UL 60950-1 Second Edition, Dated March 27, 2007.

**Critical Components Table**

Component (Customer P/N)	Manufacturer	Mfg P/N	Technical Description / Ratings (electrical/other)	Mark(s) of conformity <sup>1</sup>
For PayCheck Slim, PayCheck 3 and PayCheck 4:				
Printer Assembly	Axiohm	MHTAGS24/C	DC 24 V	Evaluated with end product
PCB	+ Various	Various	V-0, 105°C	cURus
Polymetric Drawer (for PayCheck 4 only)	+ Various	Various	V-0	cURus
For Paycheck H/S Couponing:				
Printer Assembly	Fujitsu	FTP-639MCL354	DC 24 V	Evaluated with end product
PCB	+ Various	Various	V-0, 105°C	cURus

Note: "+" preceding the manufacturer's name denotes a Certified component that can be interchanged for one from another Certified source provided that it has an equivalent or better electrical rating, and the same terminal orientation..

**Photo 1 – Model PayCheck Slim (model Number 103665)**

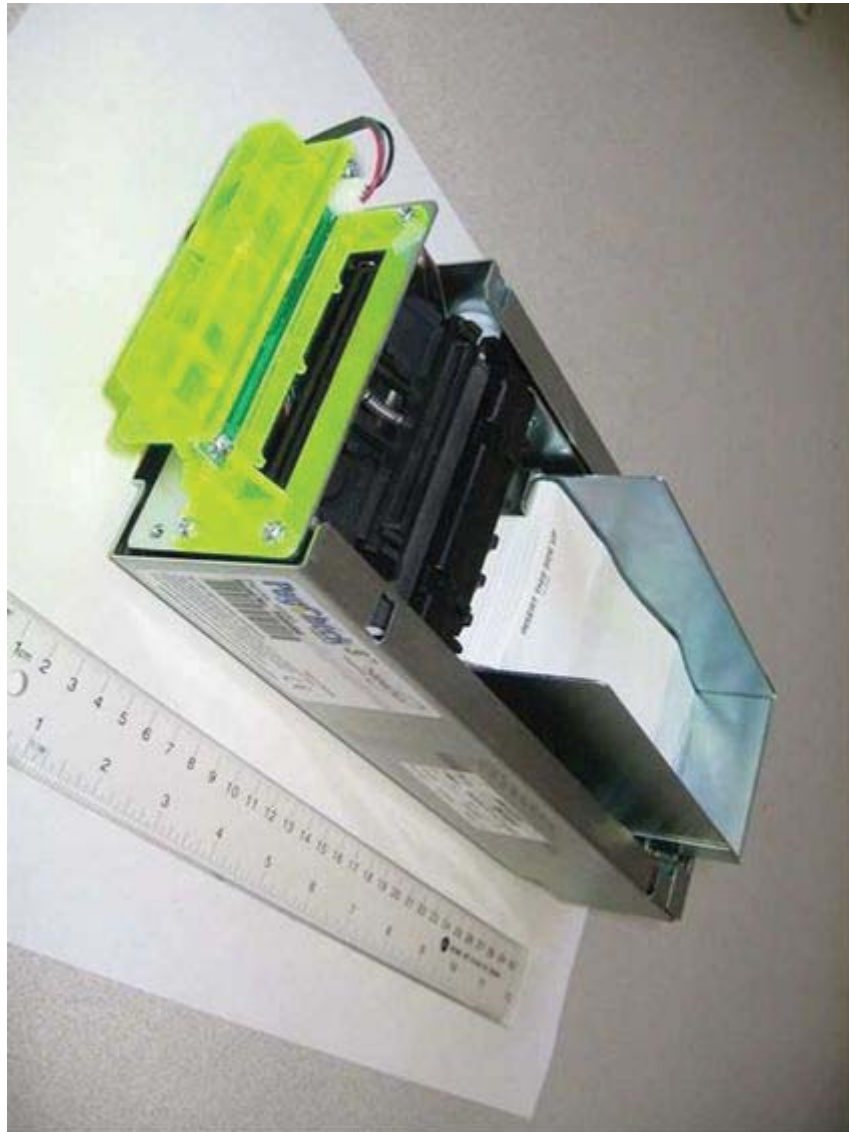


**Photo 2 – Model PayCheck Slim (model Number 103665)**

Main board



**Photo 3 – PayCheck 3 (Model Number 103563)**



**Photo 4 - PayCheck 3 (Model Number 103563)**

Main Board



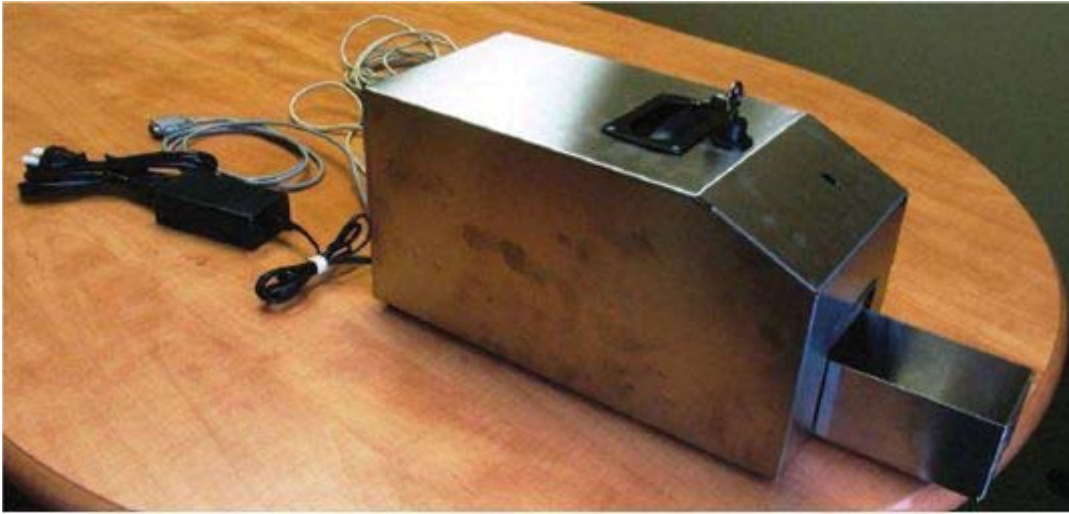
**Photo 5 – PayCheck 4 (Model Number 950020)**

Same as Paycheck 3 except for polymeric drawer (in place of the metallic drawer) as shown below

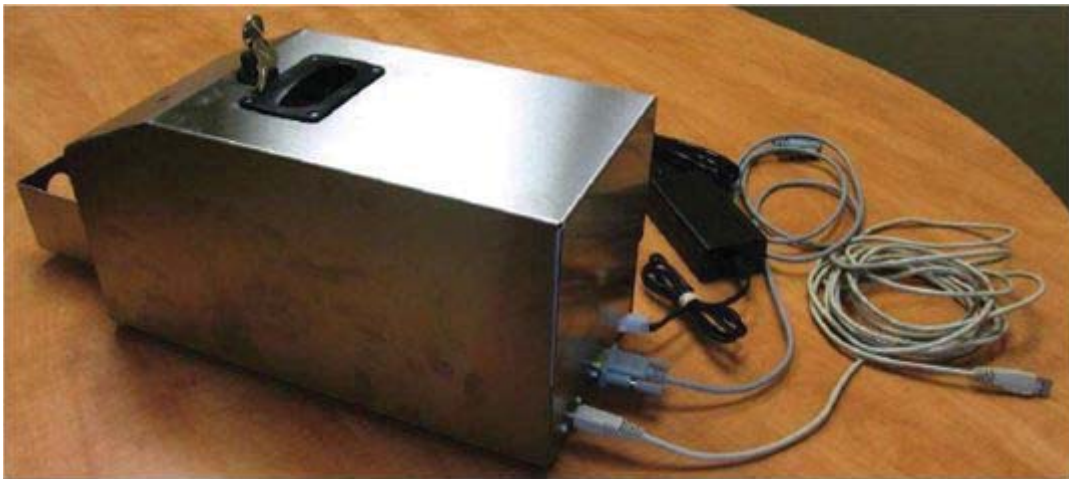


**Photo 6 – Paycheck H/S Couponing (Model Number: 950011)**

Front View:



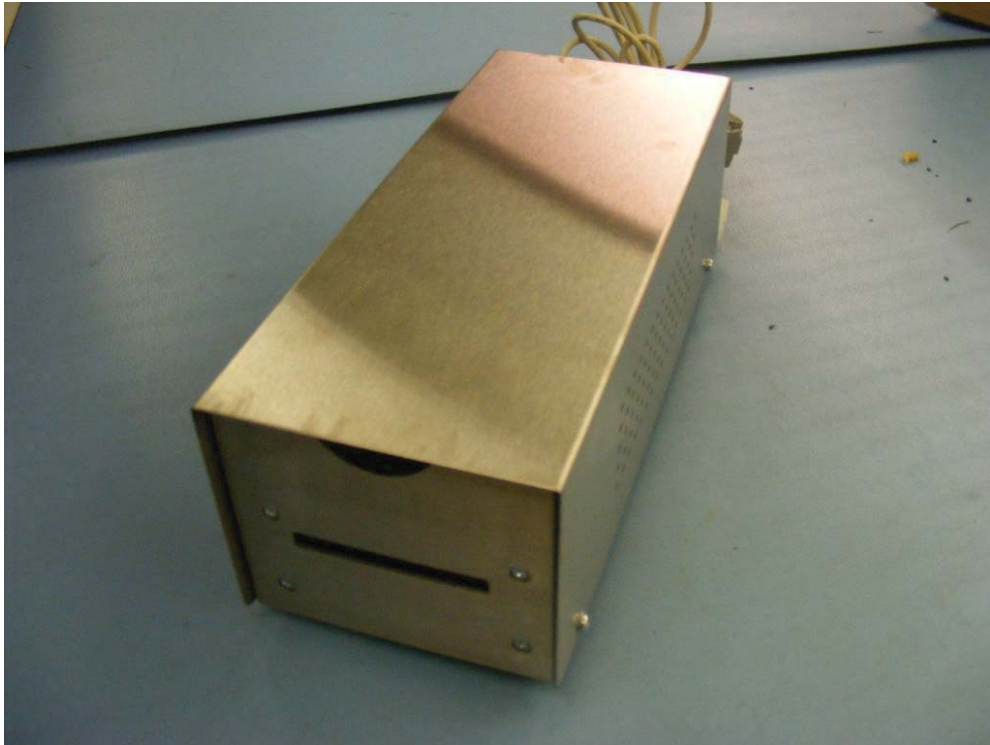
Rear View:



Internal View:



**Photo 7 – PayCheck DeskTop (950021)**



**Evaluation of Unlisted Components**

Because unlisted components are uncontrolled, and they do not fall under a third party follow up program, QPS may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The unlisted components in the table below require testing and/or evaluation as indicated.

**Note to QPS Follow Up Inspector: The testing laboratory will notify you in writing when these components must be selected and sent to the laboratory for re-evaluation**

Ship the samples to: QPS Evaluation Services Inc.  
81 Kelfield St. Unit 81  
Toronto Ontario  
Canada  
M9W 5A3

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return **must** accompany the initial component shipment.

The Unlisted Components covered by this report are shown in the following Table:

Photo No.	Component Description	Manufacturer	Catalog No.	Frequency <sup>*</sup>	Qty	Send to Lab (YES or NO)	Required Action <sup>***</sup>
							None

\* Quarterly, semi-annual, annual.  
 \*\* Note: Indicate any samples not available and provide the anticipated date that the component will be available.

\*\*\* Required Action (select one of the three):  
 Visual  
 Partial  
 Full Evaluation

Note:  
 Visual means the quarterly verification of the description of the unlisted component in the report is sufficient for Certification.