

June 8, 2006

Signal Communications Ltd.
16/F., Millennium City 3,
370 Kwun Tong Road,
Kowloon, Hong Kong.

Dear Mr. Lam :

Enclosed you will find your file copy of a Part 15 Certification (FCC ID: NAGSCRX-051020).

For your reference, TCB will normally take another 20 days for reviewing the report.
Approval will then be granted when no query is sorted.

Please contact me if you have any questions regarding the enclosed material.

Sincerely,

Chow Chi Ming, Billy
Assistant Manager

Enclosure

Signal Communications Ltd.

Application For Certification (FCC ID: NAGSCRX-051020)

TeleEye RX Series

**0523513
BC/ Sandy Lee
June 8, 2006**

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report shall not be reproduced except in full without prior authorization from Intertek Testing Services Hong Kong Limited.
- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

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LIST OF EXHIBITS

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MEASUREMENT/TECHNICAL REPORT

**Signal Communications Ltd. - MODEL: TeleEye RX304
CAMERIO RX304
TeleEye RX364
CAMERIO RX364**

FCC ID: NAGSCRX-051020

June 8, 2006

This report concerns (check one:) Original Grant Class II Change _____

Equipment Type: Computer Peripheral (example: computer, printer, modem, etc.)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes _____ No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [04-05-05 Edition] provision.

Report prepared by: Chow Chi Ming, Billy
Intertek Testing Services Hong Kong Ltd.
2/F., Garment Center,
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Kowloon, Hong Kong.
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List of attached file

Exhibit type	File Description	filename
Test Report	Test Report	report.pdf
Operation Description	Technical Description	descri.pdf
Test Setup Photo	Radiated Emission	radiated photos.doc
Test Setup Photo	Conducted Emission	conducted photos.doc
Test Report	Conducted Emission Test Result	conducted.pdf
External Photo	External Photo	external photos.doc
Internal Photo	Internal Photo	internal photos.doc
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

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1.0 General Description

1.1 Product Description

The Equipment Under Test (EUT) is a 4-Channels Video Recording Transmitter. The EUT is powered by 12V d.c. (AC-DC adaptor 100-240VAC input, 12VDC output). It is a video monitoring system which can transmit and record video from up to 4 cameras to the PC through LAN and stored to the 80GB removable harddisk(Maxtor DiamondMax Plus 9, Model:6Y080L0). Also, it can be play back the video. It can be backed up the video in CD by the built-in CD writer(LITE-ON IT CORP, Model:LTR-52327S). Besides, it has alarm detection and relay switch control functions.

The Model: CAMERIO RX304, TeleEye RX364 and CAMERIO RX364 are the same as the Model: TeleEye RX304 in hardware aspect. The difference in trade name and model number serves as marketing strategy.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

This is an application for certification of a computer peripheral.

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1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). All measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. For each scan, the procedure for maximizing emissions in Appendices D and E were followed. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **“Justification Section”** of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

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EXHIBIT 2

SYSTEM TEST CONFIGURATION

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2.0 **System Test Configuration**

2.1 Justification

The system was configured for testing in typical fashions (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2003). Three typical testing modes were selected, including PC with record mode, PC image live mode and Image burning mode. At both of above testing modes, the switching adaptor is used to simulate the switch operation. The tested results of these two testing modes are representing.

The EUT is powered by AC 120V.

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

2.2 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained in a CD ROM, was inserted into CD Drive and was installed into the hard disk.

Once the program was loaded, the cameras will capture images and the images will be shown on the monitor and recorded in the hard disk.

2.3 Special Accessories

Shielded cable is necessary for compliance of this product.

2.4 Equipment Modification

Any modifications installed previous to testing by Signal Communications Ltd. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Intertek Testing Services.

2.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

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2.6 Support Equipment List and Description

Refer List:

1. HP Computer Model: D530S S/N: CNG4110DX DOC Product	1. HP Computer Model: Vectra VL420 S/N: SG20409996 DOC Product
2. Philips LCD Monitor Model: 150B4CG S/N: CX000409301774 DOC Product	2. SAMSUNG Monitor Model: 152N SM S/N: NB15HMEWA08810A DOC Product
3. HP Keyboard Model: SDM4700P S/N: 323686-B31 DOC Product	3. HP Keyboard Model: SK-2502 S/N: C0205303122 FCCID: GYUR41SK
4. HP Mouse Model: M-S69 S/N: 323614-001 FCCID: JNZ211443	4. HP Mouse Model: M-S34 FCCID: DZL211029
5. HP Printer Model: C2642A S/N: SG67B131RY FCCID: B94C2642X	5. HP Printer Model: 948C S/N: CN23B6808P DOC Product
6. AC-DC adaptor with ferrite (provide by applicant) Model: ADS-1250T13 Input: 100-240VAC 50/60Hz Output: 12VDC 5.0A	
7. Software: TeleEye WX-30	
8. Camera (Model: SF389)	
9. 2 x USB flash drive	
10. 1 x serial cable with 1 meter long	
11. 1 x parallel cable with 1 meter long	
12. 2 x 3.1 meter long audio cable with 50Ω resistive terminator	
13. 1 x 3.1 meter long video cable with 75Ω resistive terminator	
14. 1 x 3.45 meter long alarm cable with alarm box terminator	
15. 1 x 3.2 meter long RS-232 cable with alarm box terminator	
16. 1 x LAN cable with length of 4.9 meter	
17. 1 x RS485 cable with length of 4.5 meter	
18. 5 x RG59 cable with length of 10 meter	

Confirmed by:

*Chow Chi Ming, Billy
Assistant Manager
Intertek Testing Services Hong Kong Ltd.
Agent for Signal Communications Limited*

Signature

June 8, 2006 _____ Date

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EXHIBIT 3

EMISSION RESULTS

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3.0 Emission Results

Data included were result from worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs, data tables and graphical representations of the emissions are included.

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3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as below:

$$FS = RA + AF + CF - AG$$

where FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where FS = Field Strength in dB μ V/m

RR = RA - AG in dB μ V

LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V}/\text{m}$$

$$AF = 7.4 \text{ dB}$$

$$RR = 23.0 \text{ dB}\mu\text{V}$$

$$CF = 1.6 \text{ dB}$$

$$LF = 9.0 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 23 + 9 = 32 \text{ dB}\mu\text{V}/\text{m}$$

$$\text{Level in } \mu\text{V}/\text{m} = \text{Common Antilogarithm } [32 \text{ dB}\mu\text{V}/\text{m}] / 20 = 39.8 \mu\text{V}/\text{m}$$

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3.2 Radiated Emission Configuration Photograph

**Worst Case Radiated Emission
at
147.456 MHz**

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos.doc.

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3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 7.5 dB

TEST PERSONNEL:

Signature

Ben W. K. Ho, Compliance Engineer
Typed/Printed Name

June 8, 2006

Date

INTERTEK TESTING SERVICES

Applicant: Signal Communications Ltd.

Date of Test: November 14, 2005

Model: TeleEye RX304

Mode: Live with Record

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	61.434	34.8	10.0	16	28.8	40.0	-11.2
H	86.011	37.4	8.0	16	29.4	40.0	-10.6
H	110.590	36.1	14.0	16	34.1	43.5	-9.4
H	122.878	34.7	14.0	16	32.7	43.5	-10.8
H	147.456	38.0	14.0	16	36.0	43.5	-7.5
H	159.746	33.3	16.0	16	33.3	43.5	-10.2
H	172.027	27.1	18.0	16	29.1	43.5	-14.4
H	184.316	29.1	20.0	16	33.1	43.5	-10.4
H	208.891	33.0	17.0	16	34.0	43.5	-9.5
H	221.181	32.8	17.0	16	33.8	46.0	-12.2
H	233.470	29.0	19.0	16	32.0	46.0	-14.0
H	245.763	23.4	20.0	16	27.4	46.0	-18.6
H	258.042	25.7	21.0	16	30.7	46.0	-15.3
H	294.912	25.1	22.0	16	31.1	46.0	-14.9
H	354.688	28.8	24.0	16	36.8	46.0	-9.2

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Ben W. K. Ho

INTERTEK TESTING SERVICES

Applicant: Signal Communications Ltd.

Date of Test: November 14, 2005

Model: TeleEye RX304

Mode: PC Image Live

Table 2

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	61.434	33.9	10.0	16	27.9	40.0	-12.1
H	86.011	37.0	8.0	16	29.0	40.0	-11.0
H	110.590	33.5	14.0	16	31.5	43.5	-12.0
H	122.878	32.8	14.0	16	30.8	43.5	-12.7
H	147.456	36.7	14.0	16	34.7	43.5	-8.8
H	159.746	33.3	16.0	16	33.3	43.5	-10.2
H	172.027	26.6	18.0	16	28.6	43.5	-14.9
H	184.316	28.5	20.0	16	32.5	43.5	-11.0
H	208.891	32.7	17.0	16	33.7	43.5	-9.8
H	221.181	33.5	17.0	16	34.5	46.0	-11.5
H	233.470	28.0	19.0	16	31.0	46.0	-15.0
H	245.763	23.4	20.0	16	27.4	46.0	-18.6
H	258.042	26.0	21.0	16	31.0	46.0	-15.0
H	294.912	25.4	22.0	16	31.4	46.0	-14.6
H	354.688	28.8	24.0	16	36.8	46.0	-9.2

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Ben W. K. Ho

INTERTEK TESTING SERVICES

Applicant: Signal Communications Ltd.

Date of Test: November 14, 2005

Model: TeleEye RX304

Mode: Image Burning (Hard Disk to CD)

Table 3

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	61.434	35.4	10.0	16	29.4	40.0	-10.6
H	86.011	37.3	8.0	16	29.3	40.0	-10.7
H	110.590	34.0	14.0	16	32.0	43.5	-11.5
H	122.878	33.7	14.0	16	31.7	43.5	-11.8
H	147.456	36.8	14.0	16	34.8	43.5	-8.7
H	159.746	34.0	16.0	16	34.0	43.5	-9.5
H	172.027	27.4	18.0	16	29.4	43.5	-14.1
H	184.316	27.4	20.0	16	31.4	43.5	-12.1
H	208.891	33.7	17.0	16	34.7	43.5	-8.8
H	221.181	33.0	17.0	16	34.0	46.0	-12.0
H	233.470	29.5	19.0	16	32.5	46.0	-13.5
H	245.763	24.1	20.0	16	28.1	46.0	-17.9
H	258.042	27.2	21.0	16	32.2	46.0	-13.8
H	294.912	25.0	22.0	16	31.0	46.0	-15.0
H	354.688	27.5	24.0	16	35.5	46.0	-10.5

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Ben W. K. Ho

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3.4 Conducted Emission Configuration Photograph

**Worst Case Line-Conducted Configuration
at
0.215 MHz**

For electronic filing, the worst case line-conducted configuration photograph are saved with filename: conducted photos.doc.

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3.5 Conducted Emission Data

For electronic filing, the graph and data table of conducted emission is saved with filename: conducted.pdf.

Judgement: Passed by 1.5 dB

TEST PERSONNEL:

Signature

Ben W. K. Ho, Compliance Engineer
Typed/Printed Name

June 8, 2006

Date

INTERTEK TESTING SERVICES

Applicant: Signal Communications Ltd.
Model: TeleEye RX304

Date of Test: November 14, 2005

Graph 1

Conducted Emissions Section 15.107 Requirements

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Applicant: Signal Communications Ltd.
Model: TeleEye RX304

Date of Test: November 14, 2005

Table 2

Conducted Emissions Section 15.107 Requirements

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EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

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4.0 Equipment Photographs

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.doc & internal photos.doc.

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EXHIBIT 5

PRODUCT LABELLING

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5.0 Product Labelling

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

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EXHIBIT 6

TECHNICAL SPECIFICATIONS

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6.0 Technical Specifications

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

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EXHIBIT 7

INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.