KYSOH SA

Application
For
Certification

Tux Droid

Model: TD-100

(FCC ID: UYHTD-7UX157EHPWN)

0701858
KL/at
May 3, 2007

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Intertek Testing Services Hong Kong Ltd.
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LIST OF EXHIBITS

MEASUREMENT/TECHNICAL REPORT

KYSOH SA - Model: TD-100
FCC ID: UYHTD-7UX157EHPWN

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

Equipment Type :DXT - Part 15 Low Power Transceiver, Rx Verified

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

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 _X_

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

Report prepared by:

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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 & Conducted Emission	config photos.doc
Test Report	Emission Plot	emission.pdf
Test Report	Transmitter Duty Cycle Plot	af.pdf
Test Report	Conducted Emission Test Result	conduct.pdf
External Photo	External Photo	external photos.doc
Internal Photo	Internal Photo	internal photos1.doc internal photos2.doc internal photos3.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

EXHIBIT 1
GENERAL DESCRIPTION

1.0 General Description

1.1 Product Description

This product is a 2.4 GHz desktop gadget for Linux. It contains a Tux droid (robot), a Fux (USB fish dongle), an USB cable, a programming cable, an AC power adaptor and an IR remote control.

The Equipment Under Test (EUT) is the Tux droid (robot), which operates at frequency range from 2401.056 MHz to 2482.272 MHz with 95 physical hopping channels and 20 logical channels. The Tux droid is powered by built-in Ni-MH AAA750mAh, 4.8V rechargeable battery pack. An AC power adaptor is included to recharge the battery pack using the DC power jack on the device. This device can also be directly powered with this adaptor.

Both of the Tux droid and the USB fish dongle use integral antenna.

The Tux droid has a volume control switch, a power switch, an audio in socket, an audio out socket, a DC power jack, a programming socket inside the battery compartment, a speaker, a microphone, a light sensor and blue LED indicators, an IR transmitter and receiver and push sensors on the head and wings. Through the 2.4 GHz RF link between the Tux dongle and the USB fish dongle, the end users can use their PC to control the Tux droid enabling movement, activation of the LED's and the IR transmitter and operation of audio speaker and microphone. The Tux droid provides information from his environment from IR receiver, push sensors, light sensor, microphone and internal switches to report on the status of the mechanics. The detail features of the Tux droid are listed below.

Features list:
- moving wings
- moving eye lids
- blue LED's in the eyes can be lit
- open and close the beak
- spin in both direction
- play sounds
- record voice
- talk with IR signals (e.g. TV controller) or remote control
- detect the light level with the photodiode
- push sensors on the head and wings can be triggered
- MP3 players can be connected to the audio-in for playback through the Tux droid speaker
- Headphones can be connected to the audio out

This product is shipped without any software for the computer. But test programs and drivers are available for download from the website stated in the user manual.

The end users can program the Tux droid to operate the above features. To reprogram or firmware upgrade of the Tux droid, use the provided programming cable to connect the Tux droid to the USB fish dongle and load the program from PC to Tux droid via USB fish dongle. In this programming mode, both of the Tux droid and the USB fish dongle will disable their RF links.

The circuit description is saved with filename: descri.pdf

1.2 Related Submittal(s) Grants

This is an application for certification of a Tux droid. The Fux (USB fish dongle) for this Tux droid is authorized by Certification procedure with FCC ID: UYHFX-H3RR1N.

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. 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 radiated data and conducted data are 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.

EXHIBIT 2
SYSTEM TEST CONFIGURATION

2.0 System Test Configuration

2.1 Justification

For emissions testing, the equipment under test (EUT) was setup to transmit and operate continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The device was powered by a fully charged battery or directly powered with AC power adaptor.

For the measurements, the EUT is placed on the wooden turntable. If the device can attach to peripherals, they are connected and operational (as typical as possible).

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

2.2 EUT Exercising Software

There was no special software to exercise the device.

2.3 Support Equipment List and Description

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system are:

HARDWARE:

(1) An AC power adaptor (SMPS) with input: 100-240V ~50/60Hz 0.15A, output: 7.5VDC 0.5A, Model: Ktec KSAFB0750050W1UV. (Supplied by Client)
(2) A built-in Ni-MH AAA750mAh, 4.8V rechargeable battery pack (Supplied by Client)
(3) A SONY walkman, Model: SONY WM -FX288 (Supplied by Intertek)

(4) IR remote control (Refer to Job No.: 0701860 , supplied by client)

CABLES:

(1) A 1 m earphone (Supplied by Intertek)

(2) A 1 m audio auxiliary cable (Supplied by Intertek)

2.4 Measurement Uncertainty

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

2.5 Equipment Modification

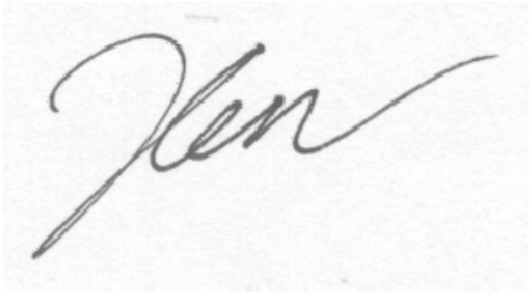
Any modifications installed previous to testing by KYSOH SA will be incorporated in each production model sold/leased in the United States.

No modifications were installed by ETL Division, Intertek Testing Services Hong Kong Ltd.

All the items listed under section 2.0 of this report are confirmed by:

Confirmed by:

Lam Chun Cheong, Kenneth
Assistant Supervisor
Intertek Testing Services
Agent for KYSOH SA



Signature

May 3, 2007 Date

EXHIBIT 3
EMISSION RESULTS

3.0 **Emission Results**

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

3.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + AV

where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows :

FS = RA + AF + CF – AG + PD + AV

Example
Assume a receiver reading of 6.0 dBμV 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, the pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was –10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0 dBμV
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
AV = -10 dB
FS = RR + LF
FS = 62 + 7.4 + 1.6 – 29 + 0 +(-10) = 32 dBμV/m

Level in mV/m = Common Antilogarithm [(32 dBμV/m)/20] = 39.8 μV/m

3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission

at 2399.910 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: config photos.doc

3.3 Radiated Emission Data

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement : Passed by 7.2 dB margin compare with peak limit

****

TEST PERSONNEL:

Tester Signature

Gary M. K. Li, Senior Lead Engineer
Typed/Printed Name

May 3, 2007
Date

Company: KYSOH SA
Model: TD-100
Mode : TX-Channel 0

Date of Test: March 9, 2007

Table 1

Pursuant to FCC Part 15 Section 15.249 Radiated Emissions Requirements

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Factor (-dB)	Calculated at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
V	2401.080	108.3	34	29.4	103.7	0.0	103.7	114	-10.3
V	2401.080	108.3	34	29.4	103.7	36.8	66.9	94	-27.1
V	4802.160	64.1	34	34.9	65.0	0.0	65.0	74	-9.0
V	4802.160	64.1	34	34.9	65.0	36.8	28.2	54	-25.8
V	7203.240	54.7	34	37.9	58.6	0.0	58.6	74	-15.4
V	7203.240	54.7	34	37.9	58.6	36.8	21.8	54	-32.2
V	9604.320	44.7	34	40.4	51.1	0.0	51.1	74	-22.9
V	9604.320	44.7	34	40.4	51.1	36.8	14.3	54	-39.7
V	12005.400	43.8	34	40.5	50.3	0.0	50.3	74	-23.7
V	12005.400	43.8	34	40.5	50.3	36.8	13.5	54	-40.5

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated 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 radiated 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.

5. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d). The worst-case radiated emission is at 2399.910 MHz and is passed by 7.2 dB compare with the peak limit, the data is shown in attached Plot - 1A in section 3.4 Radiated Emission on the Bandedge.

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Gary M. K. Li

Company: KYSOH SA
Model: TD-100
Mode : TX-Channel 47

Date of Test: March 9, 2007

Table 2

Pursuant to FCC Part 15 Section 15.249 Radiated Emissions Requirements

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Factor (-dB)	Calculated at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
V	2441.606	108.4	34	29.4	103.8	0.0	103.8	114	-10.2
V	2441.606	108.4	34	29.4	103.8	36.8	67.0	94	-27.0
V	4883.212	65.4	34	34.9	66.3	0.0	66.3	74	-7.7
V	4883.212	65.4	34	34.9	66.3	36.8	29.5	54	-24.5
V	7324.818	52.1	34	37.9	56.0	0.0	56.0	74	-18.0
V	7324.818	52.1	34	37.9	56.0	36.8	19.2	54	-34.8
V	9766.424	44.0	34	40.4	50.4	0.0	50.4	74	-23.6
V	9766.424	44.0	34	40.4	50.4	36.8	13.6	54	-40.4
V	12208.030	43.5	34	40.5	50.0	0.0	50.0	74	-24.0
V	12208.030	43.5	34	40.5	50.0	36.8	13.2	54	-40.8

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated 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 radiated 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.

5. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Gary M. K. Li

Company: KYSOH SA
Model: TD-100
Mode : TX-Channel 94

Date of Test: March 9, 2007

Table 3

Pursuant to FCC Part 15 Section 15.249 Radiated Emissions Requirements

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Factor (-dB)	Calculated at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
V	2482.230	106.8	34	30.4	103.2	0.0	103.2	114	-10.8
V	2482.230	106.8	34	30.4	103.2	36.8	66.4	94	-27.6
V	4964.500	62.9	34	34.9	63.8	0.0	63.8	74	-10.2
V	4964.500	62.9	34	34.9	63.8	36.8	27.0	54	-27.0
V	7446.690	48.7	34	37.9	52.6	0.0	52.6	74	-21.4
V	7446.690	48.7	34	37.9	52.6	36.8	15.8	54	-38.2
V	9928.930	49.6	34	40.4	56.0	0.0	56.0	74	-18.0
V	9928.930	49.6	34	40.4	56.0	36.8	19.2	54	-34.8
V	12411.150	44.6	34	40.5	51.1	0.0	51.1	74	-22.9
V	12411.150	44.6	34	40.5	51.1	36.8	14.3	54	-39.7

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated 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 radiated 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.
5. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Gary M. K. Li

Company: KYSOH SA Date of Test: March 9, 2007
Model: TD-100
Mode : Wireless Speaker and Microphone

Table 4

Pursuant to FCC Part 15 Section 15.209 Radiated Emissions Requirements

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
V	41.472	36.4	16	10.0	30.4	40.0	-9.6
V	55.296	35.6	16	11.0	30.6	40.0	-9.4
H	110.592	33.4	16	14.0	31.4	43.5	-12.1
H	179.712	28.8	16	20.0	32.8	43.5	-10.7
H	207.360	31.9	16	17.0	32.9	43.5	-10.6
H	235.008	31.6	16	19.0	34.6	46.0	-11.4
H	331.776	27.0	16	24.0	35.0	46.0	-11.0
H	442.368	25.2	16	26.0	35.2	46.0	-10.8

NOTES: 1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.

2. All measurements were made at 3 meters. Radiated 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 radiated 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.

Test Engineer: Gary M. K. Li

Company: KYSOH SA
Model: TD-100
Mode : Motion (eyelids) and IR

Date of Test: March 9, 2007

Table 5

Pursuant to FCC Part 15 Section 15.109 Radiated Emissions Requirements

Polarization	Frequency (MHz)	Reading ($dB\mu V$)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m ($dB\mu V/m$)	Limit at 3m ($dB\mu V/m$)	Margin (dB)
V	32.001	38.4	16	10.0	32.4	40.0	-7.6
V	40.006	38.0	16	10.0	32.0	40.0	-8.0
V	48.008	36.9	16	11.0	31.9	40.0	-8.1
H	120.009	34.4	16	14.0	32.4	43.5	-11.1
H	192.011	33.3	16	16.0	33.3	43.5	-10.2
H	240.014	31.6	16	19.0	34.6	46.0	-11.4
H	360.016	26.9	16	24.0	34.9	46.0	-11.1
H	480.019	25.1	16	26.0	35.1	46.0	-10.9

NOTES: 1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.

2. All measurements were made at 3 meters. Radiated 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 radiated 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.

Test Engineer: Gary M. K. Li

Company: KYSOH SA
Model: TD-100
Mode : Battery charging

Date of Test: March 9, 2007

Table 6

Pursuant to FCC Part 15 Section 15.109 Radiated Emissions Requirements

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
V	35.382	35.8	16	10.0	29.8	40.0	-10.2
V	46.456	35.5	16	11.0	30.5	40.0	-9.5
V	57.597	35.1	16	11.0	30.1	40.0	-9.9
V	62.154	35.7	16	10.0	29.7	40.0	-10.3
V	75.782	39.4	16	6.0	29.4	40.0	-10.6
V	130.891	31.0	16	14.0	29.0	43.5	-14.5

NOTES: 1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.

2. All measurements were made at 3 meters. Radiated 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 radiated 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.

Test Engineer: Gary M. K. Li

3.4 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz and 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.4 (2003) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

Please refer to the following plots for radiated emission on the bandedge:

Plot 1A*: Low Channel Emissions
Plot 1B*: High Channel Emissions

For electronic filing, the above plots are saved with filename: emission.pdf

* Bandedge compliance is determined by applying marker-delta method, i.e.

Resultant peak field strength = Fundamental peak emissions - delta from the plot

= 103.7dBµV/m - 36.9dB

= 66.8dBµV/m

The resultant peak field strength meets the general peak radiated emission limit in section 15.209, which does not exceed 74dBµV/m.

Resultant AVG field strength = Fundamental AVG emissions - delta from the plot

= 66.9dBµV/m - 36.9dB

= 30.0dBµV/m

The resultant average field strength meets the general average radiated emission limit in section 15.209, which does not exceed 54dBµV/m.

3.5 Transmitter Duty Cycle Calculation and Measurement, FCC section 15.35 (b), (c)

The signal from the EUT was coupled to a spectrum analyzer. The analyzer centre frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The transmitter ON time was determined from the resultant time-amplitude display.

For electronic filing, the transmitter timing plots are saved with filename: af.pdf

Duty cycle (DC) = Maximum ON time in one period / one period of time
= 0.576 ms / (20 channels x 2) ms

Duty cycle correction, dB = $20 \log_{10}$ (DC)
= $20 \log_{10}$ (0.0144)
= - 36.8 dB

3.6 Line Conducted Configuration Photograph

Worst Case Line-Conducted Configuration

at 0.350 MHz

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

3.7 Line Conducted Emission Data

The data on the following pages list the significant emission frequencies, the limit, and the margin of compliance.

Judgement : Passed by 4.0 dB margin compare with average limit

TEST PERSONNEL:

Tester Signature

Gary M. K. Li, Senior Lead Engineer
Typed/Printed Name

May 3, 2007
Date

Company: KYSOH SA
Model: TD-100

Date of Test: March 9, 2007

Conducted Emissions

For electronic filing, the conducted emission test result is saved with filename: conduct.pdf

EXHIBIT 4
EQUIPMENT PHOTOGRAPHS

4.0 **Equipment Photographs**

For electronic filing, the photographs are saved with filename: external photos.doc, internal photos1.doc, internal photos2.doc & internal photos3.doc

EXHIBIT 5
PRODUCT LABELLING

5.0 **Product Labelling**

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

EXHIBIT 6
TECHNICAL SPECIFICATIONS

6.0 Technical Specifications

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

EXHIBIT 7
INSTRUCTION MANUAL

7.0 Instruction Manual

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

The required FCC Information to the User is stated on P.5 and P.11 to 12 of the Instruction Manual.

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