TO :   **DYNAMIC INDUSTRIES CO LTD(HK)**

FROM   **DYNAMIC ENG DEPT (PINF DI)**

ATTENTION: **MR DICKIE CHENG**
              KENNY SAN

FROM:-   **BILLY**

DATE   27-7-2006

	SAMPLES FOR FCC PART-15 APPLICATION			
1	PART NAME	RC DOLPHIN		
2	CUSTOMER			
3	CONTENTS	TX UNITS	27.145MC	3 SETS EACH
4	DOCUMENTS	TX- 27.145MHZ	1 COPY(S)	EACH

DYNAMIC INDUSTRIES CO LTD

UNIT 2204, 22F, 57, HUNG TO ROAD
KOWLOON , HONG   KONG .
TEL:-   2389 -8230
FAX : - 2790 -5521

REF NO :	**RC DOLPHIN**
ITEM NO :-	**XXXX**
DATE .:	**27-7-2006**
REV :	**ORIGINAL**
VERSION	**27.145MHZ**
FOR	FCC PART-15

ENGINEERING DEPARTMENT

TO :   **DYNAMIC**
ATT: **KENNY SAN**
REF:-   **ORIGINAL**   VERSIONS FOR **FCC PART 15** APPLICATION)
SUBJECT:- **RC DOLPHIN**

CC :   **MR D. LAM**

ENCLOSED HEREWITH PLEASE FIND RELATED DOCUMENTS FOR SUBJECT MODEL TO APPLY
(FCC PART 15 CERTIFICATION)

1)	A)	TX SCHEMATIC	X1 COPY
	B)	RX SCHEMATIC	X1 COPY
2)	A)	TECHNICAL DATA SHEET	X1 COPY
3)	A)	TX 'PART LIST	X1 COPY
	B)	RX 'PART LIST	X1 COPY
4)	A)	TX 'BLOCK DIAGRAM	X1 COPY
	B)	RX 'BLOCK DIAGRAM	X1 COPY
5)	A)	TX PRINTED CIRCUIT BOARD PATTERNS	X1 SET
	B)	RX PRINTED CIRCUIT BOARD PATTERNS	X1 SET
6)	A)	MANUFACTURER ADDRESS	X1 COPY
7)	A)	CIRCUIT DESCRIPTIONS	X 1- COPY
8)	A)	WORKING SAMPLE.	X3 SET

PLEASE USE THESE DOCUMENTS FOR YOUR FCC PART-15 APPLICATION

BEST REGARDS !

B.LEE

DYNAMIC INDUSTRIES CO LTD

UNIT 2204, 22F, 57, HUNG TO ROAD
KOWLOON , HONG KONG .
TEL:- 2389 -8230
FAX : - 2790 -5521

NAME :- RC DOLPHIN
DATE : 27-7-2006
REV : ORIG
REF TO

ENGINEERING DEPARTMENT

{ INFORMATION FOR LAB TEST }
(PART-15 APPLICATION)

27.145MHZ

*	1)	TX SCHEMATIC	X1 COPY
	2)	TX BLOCK DIAGRAM	X1 COPY
	3)	RX SCHEMATIC	X1 COPY
		RX BLOCK DIAGRAG	X1 COPY
	4)	TX PART LIST	X1 COPY
	5)	RX PART LIST	X1 COPY
*		TRANSMITTER ACTUAL OUTPUT POWER	80DBUV/ M
*		CHANNEL WIDTH(-26DB)	<100KC
*		NUMBER OF CHANNELS	0NE

* MANUFACTURER

DYNAMIC INDUSTRIES CO LTD
RM 2204-2205, 22 FLOOR,
NO 57, HUNG TO ROAD,
KWUN TONG, KOWLOON,
HONG KONG.
TEL:- 008-52-23898230
FAX:- 008-52- 27905521

* PLACE OF MANUFACTURED

DYNAMIC INDUSTRIES CO LTD
6, FU PING RD, PING DEI,
LOONGUAN DIST. SHINZHIN,
GUANGDONG, CHINA.
TEL:- 001-86-755-8408-6825
FAX:- 001-86-755-8408-6767

* PLACE OF PLASTIC PARTS MADE — **AS ABOVE**
* PLACE OF CIRCUIT ASSEMBLED — **AS ABOVE**
* PLACE OF FINAL PRODUCT ASSEMBLED — **AS ABOVE**
* QUALITY TESTS DONE IN FACTORY — **AS ABOVE**

ENG DEPT.
BILLY. LEE

DYNAMIC INDUSTRIES CO LTD
UNIT 2205, 22F, 57, HUNG TO RD

ENGINEERING DEPARTMENT

MODEL NO:-
MODEL NANE:-   RC DOLPHIN
DATE:-   27-7-2006
BY: B.LEE
FREQUENCY USED:-   **27.145MHZ**
                     FCC PART-15

TECHNICAL DATA

A. TX SECTION

1	DC POWER SUPPLY:-	12.0VDC		8X1.5VDC ALKALINE BATTERY
2	DC IDLE CURRENT:-	**24.000**	MA DC	(TYPICAL)
3	DC OPERATING CURRENT	**24.000**	MA DC	(TYPICAL)
4	TRANSMITTED OUTPUT FREQUENCY	**27.145MHZ**		(CONTRLLED BY CRYSTAL)
5	TRANSMITTED OUTPUT POWER	LESS THAN 0.01 Uwatt		
		OR LESS THAN 1.0V RMS AT 100 OHM LOADING		
		OR LESS THAN 80DBUV / METER		
6	TRANSMITTED DISTANCE	WITHIN 200-300 METER IN OPEN AREA. (TYPICAL)		
7	MODELATION AUDIO FREQUENCY	CONTROLLED BY TX IC-I		
8	MODULATION SYSTEM	FREQUENCY MODULATION	(FM)	
9	THD AT 3KHZ DEV	5.00%	(MAX)	
10	**DC POWER OFF**	BY SLIDE SWITCH		
11	RED LED ON	WHEN B+ IS SWITCH ON		

B. RX SECTION

1	DC POWER SUPPLY	**9.60VDC**	**8X1.2VDC**	AA ALKALINE BATTERY
2	DC IDLE CURRENT	**20.000**	MA DC	TYPICAL
3	MAX 'FREE RUN- DC CURRENT	**750.00**	MA DC TYP	STEERING MOTOR 2
4	MAX 'FREE RUN- DC CURRENT	**1400.00**	MA DC TYP	STEERING MOTOR 2 + 3
5	MAX DC FREE RUN CURRENT	**6100.00**	MA DC TYP	THROTTLE MOTOR
6	BATTERY OPERATING HOUR	5-8 MINUTES	TYPICAL	
7	RF RECEIVING FREQUENCY	**27.145MHZ**		
8	**MANUAL POWER OFF**	BY SLIDE SWITCH		

C. TX-SIDE-- CONTROL KNOBS

1) **FORWARD/BACKWARD SPEED CONTROL KNOB**
   TO CONTROL THE THROTTLE MOTOR GOES FORWARD OR BACKWARD

2) **STEERING LEFT/RIGHT SIDE CONTORL (1) L / R**
   TO CONTROL THE STEERING MOTOR TO TURN LEFT / RIGHT SIDE

3) **STEERING LEFT / RIGHT- SIDE CONTORL (2) UP-DOWN**
   TO CONTROL THE STEERING MOTOR TO TURN LEFT / RIGHT SIDE

DYNAMIC INDUSTRIES CO LTD

UNIT 2205, 22F, 57, HUNG TO RD

ENGINEERING DEPARTMENT

PART LIST   **TX SECTION**

MODEL NO:-
MODEL NANE:- 海豚-RC DOLPHIN
DATE:- 24-7-2006
BY:- B.LEE
VERSION :- 27.145MHZ
REVISION :- ORIG

RESISTOR

CODE	VALUE	TYPE
R1	10 OHM	SMD RESISTOR
R2	1K	SMD RESISTOR
R3	1K	SMD RESISTOR
R4	1K	SMD RESISTOR
R5	22K	SMD RESISTOR
R6	100K	SMD RESISTOR
R7	560	SMD RESISTOR
R8	47K	SMD RESISTOR
R9	10K	SMD RESISTOR
R10	220K	SMD RESISTOR
R11	180	SMD RESISTOR
R12	560	SMD RESISTOR
R13	100K	SMD RESISTOR
R14	180	SMD RESISTOR
R15	47K	SMD RESISTOR
R16	NC	SMD RESISTOR
R17	4.7 OHM	SMD RESISTOR
R18	270	SMD RESISTOR
R19	100	SMD RESISTOR

N/C=NO CONNECTION

CAP(S)

CODE	VALUE	TYPE
C1	103	SMD CAP
C2	103	SMD CAP
C3	472	SMD CAP
C4	1.0UF	E CAP
C5	103	SMD CAP
C6	5P	SMD CAP
C7	5P	SMD CAP
C8	100P	SMD CAP
C9	103	SMD CAP
C10	103	SMD CAP
C11	47UF	E CAP
C12	472	SMD CAP
C13	47P	SMD CAP
C14	103	SMD CAP
C15	24P	SMD CAP
C16	47P	SMD CAP
C17	68P	SMD CAP
C18	100P	SMD CAP
C19	NC	SMD CAP
C20	NC	SMD CAP
C21	47UF	E CAP
C22	103	SMD CAP
C23	180P	SMD CAP

N/C=NO CONNECTION

TRANSISTOR/INDUCTOR

CODE	VALUE	TYPE
Q1	2SC380-0	TO-92
Q2	2SC380-0	TO-92
Q3	2SC3190	TO-92
U1	EN7852-CDTX	COB CHIP IC
D1	1N4148	SWITCHING DIODE
LED	RED LED	5MM
LED1	RED LED	VOLT REGULATOR
Z1	4.7V ZENER	DIODE
Y1	13.5725MHZ	CRYSTAL
L1	2.2UH	INDUCTOR
L2	2.2UH	INDUCTOR
L3	0.33UH	INDUCTOR
L4	NC	NC
L5	NC	NC
L6	3.9UH%	INDUCTOR
T1	RF-7LC-2844-00	7MM FORMER COIL
T2	RFC-7LC-2845-00	7MM FORMER COIL
T3	B8LK-877568	7MM FORMER COIL
SW1	SS-12F61-G4	SLIDE SWITCH
SW2	SS23-F28-G6	SLIDE SWITCH
SW3	SS23-F28-G6	SLIDE SWITCH
SW4	SS23-F28-G6	SLIDE SWITCH
SW5	SS23-F28-G6	SLIDE SWITCH

N/C=NO CONNECTION

OTHER PARTS

CODE	VALUE	TYPE
	TX PC BOARD 1.6MM 94HB 1-SIDE	
	SWITCH BOARD 1.6MM 94HB 1-SIDE	
	BATTERY CONTACTS, POSITIVE	
	BATTERY CONTACTS, NEGATIVE	
	ANTENNA ROD 40 INCH 7-SECTION	
	SPRING, MEATL	
	SCREWS, MEATL	
	WIRES	
	TX CABINET TOP	PP
	TX CABINET BOTTOM	PP
	TX CONTROL KNOB	PP
	TX BATTERY DOOR	PP

DYNAMIC INDUSTRIES CO LTD

UNIT 2205, 22F, 57, HUNG TO RD

ENGINEERING DEPARTMENT

PART LIST   **TX SECTION**

MODEL NO:-	
MODEL NANE:-	海豚-RC DOLPHIN
DATE:-	11-7-2006
BY:-	B.LEE
VERSION :-	INFRAD
REVISION :-	ORIG

RESISTOR

CODE	VALU	TYPE	CODE	VALU	TYPE
R1	100K	SMD	R28	4K7	SMD
R2	470	SMD	R29	4K7	SMD
R3	1K2	SMD	R30	4K7	SMD
R4	4K7	SMD	R31	470	SMD
R5	4K7	SMD	R32	1K2	SMD
R6	470K	SMD	R33	330	SMD
R7	390K	SMD	R34	330	SMD
R8	1K	SMD	R35	470	SMD
R9	820	SMD	R36	470	SMD
R10	470	SMD	R37	470	SMD
R11	5K6	SMD	R38	470	SMD
R12	22K	SMD	R39	4K7	SMD
R13	1K	SMD	R40	4K7	SMD
R14	100K	SMD	R41	470	SMD
R15	15K	SMD	R42	NC	SMD
R16	33K	SMD	R43	NC	SMD
R17	100K	SMD	R44	2K2	SMD
R18	1K	SMD	R45	330	SMD
R19	15K	SMD	R46	330	SMD
R20	33K	SMD	R47	NC	SMD
R21	10K	SMD	R48	NC	SMD
R22	10K	SMD	R49	1M	SMD
R23	22K	SMD			
R24	22K	SMD	N/C=NO CONNECTION		
R25	10K	SMD			
R26	10K	SMD			
R27	4K7	SMD			
N/C=NO CONNECTION					

CAP(S)

CODE	VALUE	TYPE	CODE	VALUE	TYPE
C1	12P	SMD	C30	472	C CAP
C2	103	SMD	C32	472	C CAP
C3	472	SMD	C34	472	C CAP
C4	104	SMD	C31	10UF	NON POL CAP
C5	100P	SMD	C33	10UF	NON POL CAP
C6	33P	SMD	C35	10UF	NON POL CAP
C7	103	SMD	L9	5A 0.75UH	INDUCTOR
C8	100P	SMD	L8	5A 0.75UH	INDUCTOR
C9	104	SMD	L7	5A 0.75UH	INDUCTOR
C10	104	SMD	L6	5A 0.75UH	INDUCTOR
C11	102	SMD	L5	10A 0.75UH	INDUCTOR
C12	104	SMD	L4	10A 0.75UH	INDUCTOR
C13	100UF	E CAP			
C14	103	SMD			
C15	100UF	E CAP			
C16	104	SMD			
C17	1.0 UF	E CAP			
C18	470UF	E CAP			
C19	NC	SMD			
C20	220P	SMD			
C21	NC	SMD			
C22	NC	SMD			
C23	103	SMD			
C24	103	SMD			
C25	103	SMD			
C26	103	SMD			
C27	102	SMD			
C28	102	SMD			
N/C=NO CONNECTION					

TRANSISTOR/INDUCTOR

CODE	VALUE	TYPE
Q1	2SC1674	TO-92
Q2	2SC2712	SOT23
Q3,Q4	SC8050	TO-92
Q5,Q6	2SC12712	SOT23
Q7,Q8	2SA1162	SOT23
Q9,10,11,12	2SK3296 TO-263	MOSFET
Q13,14,20,21	SC8550	TO-92
Q15,16,22,23	2SC2712	SOT23
Q17,18,24,25	SC8050	TO-92
U1	IC MC3361	SMT16
U2	IC EMC7815	COB CHIP
D2	1N4148	DIODE
Z1	HZ3C6 3.6V	ZENER DIODE
Z3	27V ZENER	DIODE
Y1	26.690MHZ	CRYSTAL
F9	455KHZ FILTER	3-LEG%
F8	455KHZ DETECTOR	2-LEG
T1	5K5C-877643	FORMER COIL
T2	5K5D-877642	FORMER COIL
SW1	SS-22F32-G9B	SLIDE SWITCH
L1	1.5UH	INDUCTOR
L2	NC	NC
L3	1000UH	INDUCTOR
M1,M2	FN130-12240	STEERING MOTOR
M3	550(8015)	THROTTLE MOTOR
F2	FUSE	NC

OTHER PARTS

CODE	VALUE	TYPE
RX PC BOARD	1.6MM FR4 1-SIDE	
CO BOARD	0.6MM 94HB 1-SIDE	
BATTERY PLUG		
SCREWS,METAL		
WIRES		
RX CABINET TOP		PP
RX CABINET BOTTOM		PP
RX CONTROL [PART		PP
RX BATTERY DOOR		PP