



裕豐玩具實業有限公司

*Uni-Fortune Toys Industrial Limited*

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<b>Project Name:</b>	<b>PLASTIC R/C VEHICLE</b>
<b>Model No.:</b>	23854, 23864, 23874, 23884, 24184, 24194, 24204, 24214, 24224, 24234, 24244, 24254, 25954, 25964, 25974, 25984, 25994, 26004, 26014, 26034
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<b>Date:</b>	<b>14-07-2011</b>
<b>Description:</b>	<b>Introduction</b>

#### **R/C transmitter:**

Operation: 9V battery; Drawing Ref.: 1:24 Radio Control TX; U1 is a 5 functional remote encoders IC, it is work with transistor Q1, Q2 and other components is unified takes the RF transmitter circuit. IC Pin 3, 5, 2 and 1 control left, right, back, forward and encoding signal output respectively. The encoding data output from Pin 13 and modulate with 27.145MHz oscillator that achieved by Q1, Y1, R3, R6, C5 and L1. The RF power amplifier Q2, L2, C6, C7 are use to expansion transmission scope, the output frequency through LC filter C3, C4 and L3, elimination harmonic frequency that the signal which transmits by aerial E1.

#### **R/C receiver:**

Operation: 4.5V AA Size battery x 3pcs; Drawing Ref.: 1:24 Radio Control (RX); Super-regenerative receiver use a special type of detector, in a straight regenerative circuit, input signal couples to the detector, and some of the output signal feedback to its input, in phase. This repeatedly amplifies the input signal. The result is very high gain in a single stage. Q13 provides RF gain and helps prevent the receiver from radiating its signal out the antenna. The data signal obtained by detector then couples to Video Amplifier U1 (RX2C) pin 14 through the LPF circuit (R13, C7). The IC provides two high effective amplifiers and enhances signal input recognition capacity to enhance remote control distance. The data signal obtained by the U1 then couples to decoder IC U2 (RX2-3A) and The signal input to the decoding circuit by pin4, the control function through the pin 7, 6, 2, 3 to driving the motor circuit.



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### Specification of RC Vehicle

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<b>Description:</b>	(Front, Back, Left, Right, Stop) Full function radio control car		
<b>Radio Freq.:</b>	27.145MHz $\pm$ 30PPM at 25°C		
<b>Control Range:</b>	Over 15m control radius from R/C transmitter at open site		
<b>Power Supply</b>	Transmitter:	9V (6F22 battery)	
	Receiver:	4.5V (R6P/ SIZE AA x 3 battery)	
<b>Min. operation voltage:</b>	Transmitter:	7V	
	Receiver:	3.6V	
<b>Power consumption at rate voltage:</b>	Transmitter:	Standby-	270mW approx.
		Operating-	410mW approx.
	Receiver:	Standby-	135mW approx.
		Operating-	6.75W approx.