

## YMW Z8: Product Description

### Purpose:

YMW Z8 RC TOY SPORTSCAR is a radio controlled toy car driven by Ni-Cd rechargeable cell pack(6V, 700mAh) or 5 pieces of AA dry batteries. This product is developed and manufactured according to scale of 1:14 with real BMW Z8 car being its prototype. The RC system uses the 27.145MHz band. This product inherits the characteristics of both ordinary radio controlled toy car and scale model car. Therefore, this product not only can be played by people of all age range except of under 3 years old, but also for the purpose of private collection and household decoration.

### Feature:

Radio transmission:	no directional, from radio control to toy car
Number of channels:	4
Transmission range:	over 30m typical, free space
Power supply:	Ni-Cd rechargeable cell pack (6V, 700mAh) or 5 × 1.5V AA dry batteries
Functions:	advance+acceleration+reverse+turn left+turn right
Carrier frequency band:	27.145MHz
Antenna:	retractable antenna, integrated on printed circuit board
Operating voltage:	6V

# Circuit Description of YMW Z8

## TRANSMITTER:

"ADVANCE"/"ACCELERATION"/"REVERSE"/"TURN LEFT"/"TURN RIGHT" control codes output from Pin8 of IC TX-2, reaching modulation circuit via R2; then processed by 27.145MHz oscillating circuit which is composed of X1(27.145MHz crystal oscillator),Q2,C7,R5,L3; reaching modulation circuit via C5; then via Q1 reaching the circuit of mixing/modulation/amplifying; signals from C1 to L1, finally transmitted by the antenna.