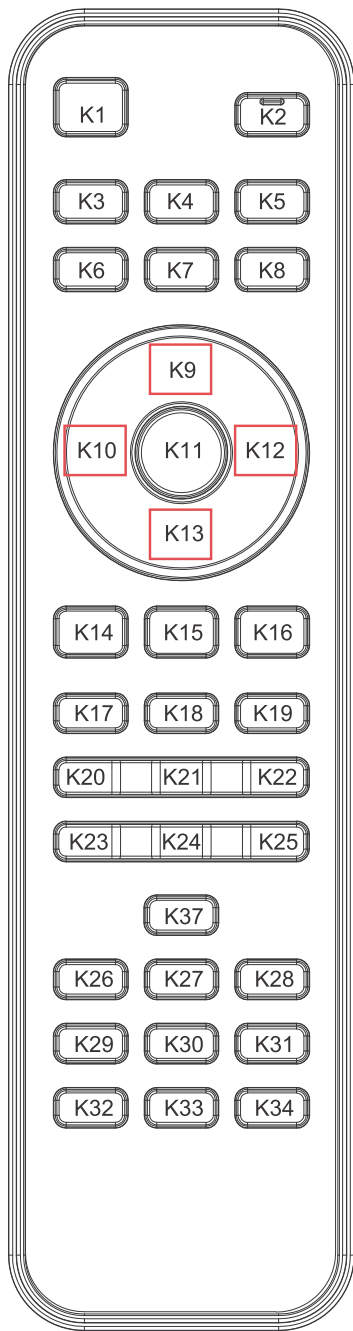
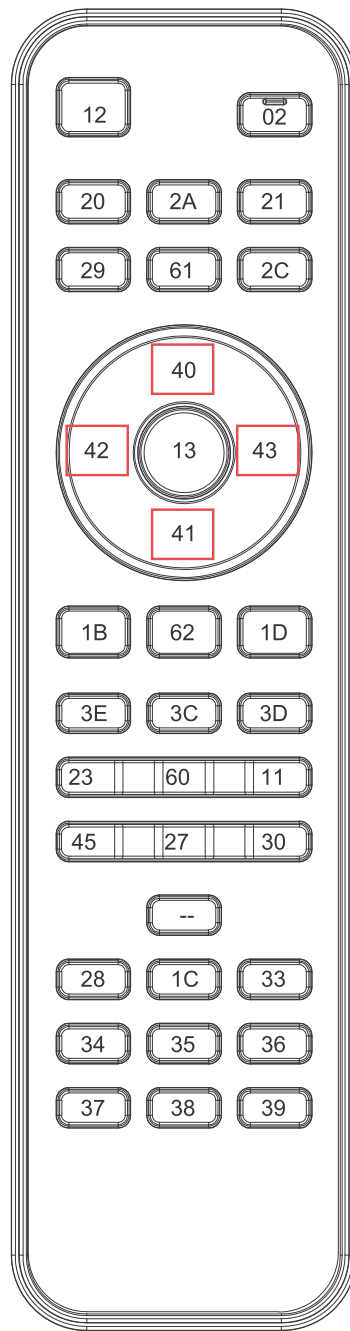


IR format : NEC uPD6121
Customer Code: E1H,5AH

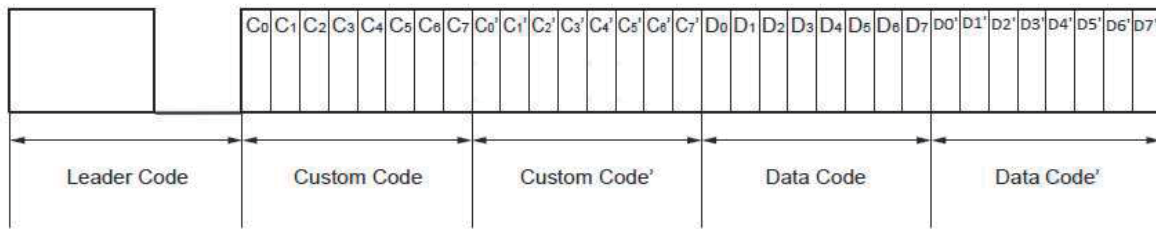


Key 位圖



Code List 圖

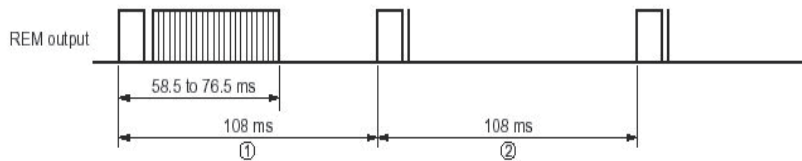
1.NEC6121 IR Format 信號編碼格式:



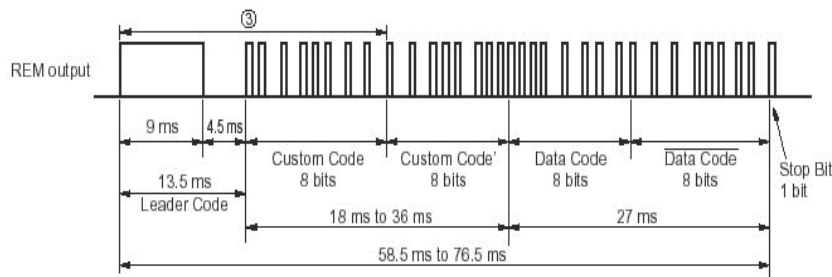
2.One-shot Command Transmission Mode

- When $f_{osc} = 455 \text{ kHz}$

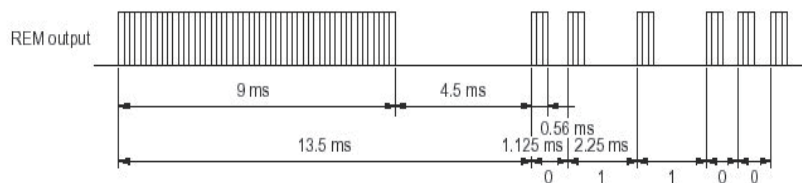
(1) Remote (REM) output (from stage ②), $trans_1 \approx 96.19\text{ms}$ occurs only when key is kept depressed



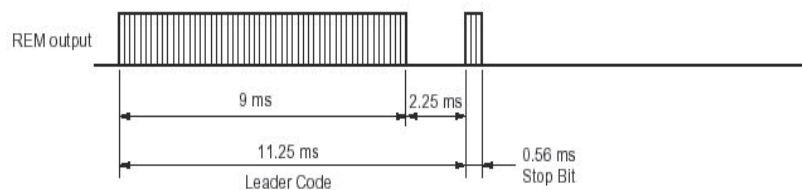
(2) Magnification of stage ①



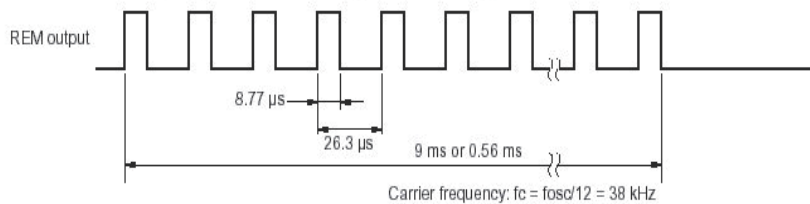
(3) Magnification of waveform ③



(4) Magnification of waveform ④



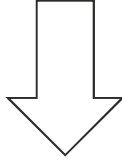
(5) Carrier waveform (Magnification of HIGH period of codes)



3.Key Data Packet Format:

3.1 NEC6121 Standard Key Code (without ID Code)

	B0	B1	B2	B3	B4	B5	B6	B7
0	C0	C1	C2	C3	C4	C5	C6	C7
1	C0'	C1'	C2'	C3'	C4'	C5'	C6'	C7'
2	D0	D1	D2	D3	D4	D5	D6	D7
3	D0'	D1'	D2'	D3'	D4'	D5'	D6'	D7'



3.2 NEC6121 Approached Key Code (with ID Code)

	B0	B1	B2	B3	B4	B5	B6	B7
0	S0	S1	S2	S3	S4	S5	S6	S7
1	S8	S9	S10	S11	S12	S13	S14	S15
2	D0	D1	D2	D3	D4	D5	D6	D7
3	ID0	ID1	ID2	ID3	ID4	ID5	ID6	ID7

C0-C7 System code (S0...S7)

C0'-C7' /System code (S8...S15)

D0-D7 Key data code (D0...D7)

D0'-D7' ID code (ID0...ID7)

4.Code Range:

Code definition	Code range	Setup range	Initial state	Note
System code(8)	E1H	/	E1H	
/System code(8)	5AH		5AH	
Key code(8)	00H ~ FFH	/	Key code	
ID code(8)	01H ~ 99H		01 ~ 99	/Key code

5.ID code Setting:

The default format of IR is Initial state (NEC standard format - without ID Code)

The setting range of ID code is 01 - 99 (2 digit numbers)

- Hold the [Set] key
- Push Number key [0] - [9] to set the 1st digit number of the ID code
- Push Number key [0] - [9] to set the 2nd digit number of the ID code
- Release the [Set] key to set the ID code

*The IR format would change to NEC Approached format - with ID Code after setting.

6.ID code Reset:

Setting the ID code as 00 to reset the ID code

- Hold the [Set] key
- Push Number key [0] to set the 1st digit number of the ID code
- Push Number key [0] to set the 2nd digit number of the ID code
- Release the [Set] key to reset the ID code

*The IR format would get back to Initial state (NEC standard format - without ID Code).

