

# IV-18 VFD tube Clock v1.2.0 Bill of Materials

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No.	Name	Description	Quantity
1	VFD tube	IV-18	1
2	Main board	Pre-assembled	1
3	IR remote controller		1
4	Mini USB cable	120cm	1
5	Power adapter	DC 5V	1

## Components

No.	Name	Description	Designator	Footprint	Quantity
1	IR receiver	IC	U3	HS0038	1
2	TempSensor	IC	TEMP	TO-92	1
3	Buzzer	Buzzer	Buzzer	BUZZER9mm	1
4	2x6Pin/2.54mm	Connector female	P1	2x6Pin/2.54mm	1
5	2x6Pin/2.54mm	Connector male	P2	2x6Pin/2.54mm	1
6	LP	Mercoid switch	LP	LP-SW	1
7	Pr	Photoresistance	R8	Pr	1

## Shell parts

No.	Name	Description	Quantity
1	Aluminum alloy rod (long)	90mm. Silvery	4
2	Aluminum alloy rod (short)	15mm. Silvery	8
3	Aluminum alloy plate (O shape)	2mm thickness. Silvery	2
4	Aluminum alloy plate (D shape)	2mm thickness. Silvery	2
5	Aluminum alloy plate (X shape)	2mm thickness. Silvery	2
6	Mesh frame	0.5mm thickness. Black	2
7	Compact set screw	M5x(16mm-20mm). Black	8
8	Copper spacer	M5-28mm. Male-Female	4
9	Copper spacer	M5-15mm. Male-Female	4
10	Copper spacer	M5-12mm. Male-Female	4
11	Copper spacer	M3-11mm. Female-Female	3
12	Nylon washer	M5. 1mm thickness. Lacte	16
13	Seal ring	9mm diameter. Black	24
14	Hexagon socket head cap screw	12.9 screws.M5x8mm. Black	8
15	Hexagon socket head cap screw	M3x6mm. Silvery	6

- Assembly manual and user manual please check my blog here:<http://www.nixieclock.org/?p=449>
- Any questions please contact me, it's my pleasure to answer your questions.

**Software design :**

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**Hardware design :**

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