3.6

h

1905

$$h\nu = \frac{1}{2}mv_{max}^2 + W$$

v

hv

1904 1916

h

h 6.6260872(52) 10^{-34} J s

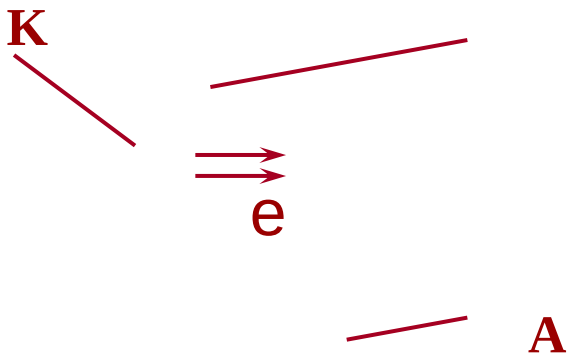
1.

2.

MCPH20

Ag-O-K

Ni



GY-13高压汞灯电源
输 出
电 源
天津市拓普仪器有限公司

对准

MCPH20

MCPH20 光电效应实验仪
列表
手动 曲线
自动 保存
Quit
Enter
GND

(

“j”

)

4

4

4

(365,405,

436,546nm)

K

MCPH20

LCD

GND

(1) **“ ” “j ”**

“Enter”

(2)

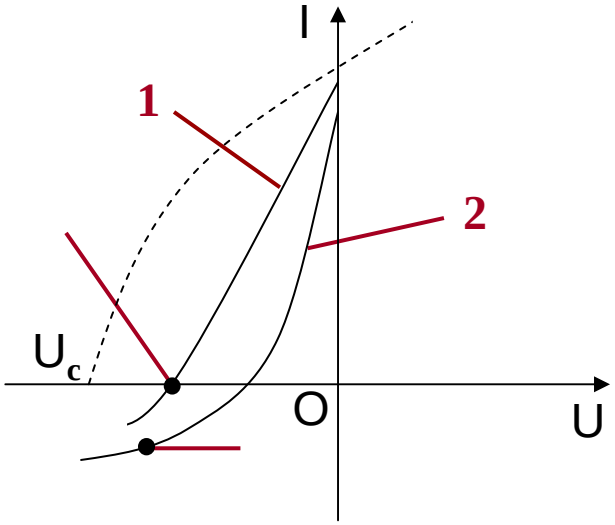
2

“ ”

“ ”

“ ” U_c

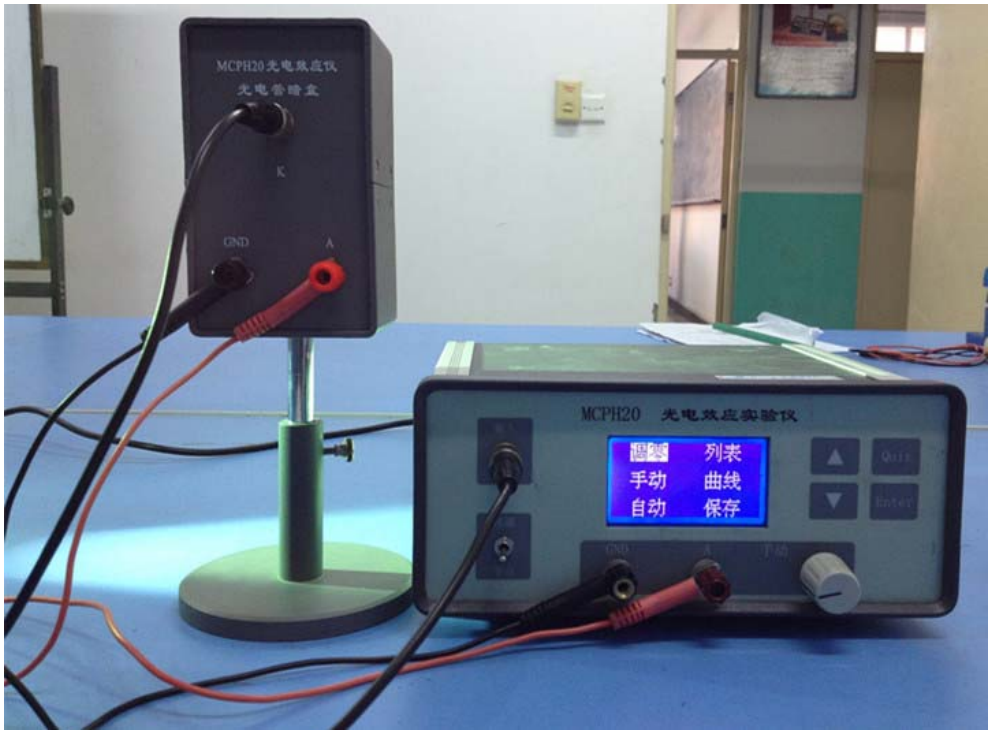
“ ”



1.

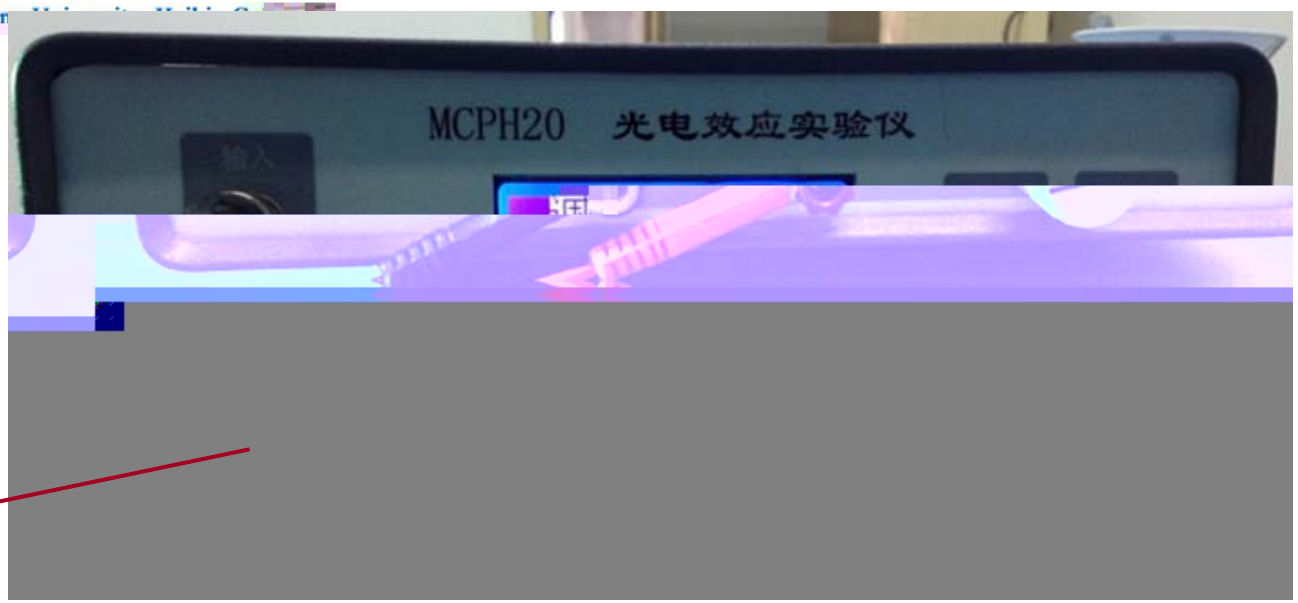
(1)

30~35cm



(2)

15~20min


MCPH20 光电效应实验仪

MCPH20 光电效应实验仪
输入
I= 0011.4PA
U=-1.27 V
Quit
Enter
接通
GND
A
手动

2.

U_c

(1)

(2)　　“　　”　　“Enter”

LCD　　“　　”

I　U

3-10

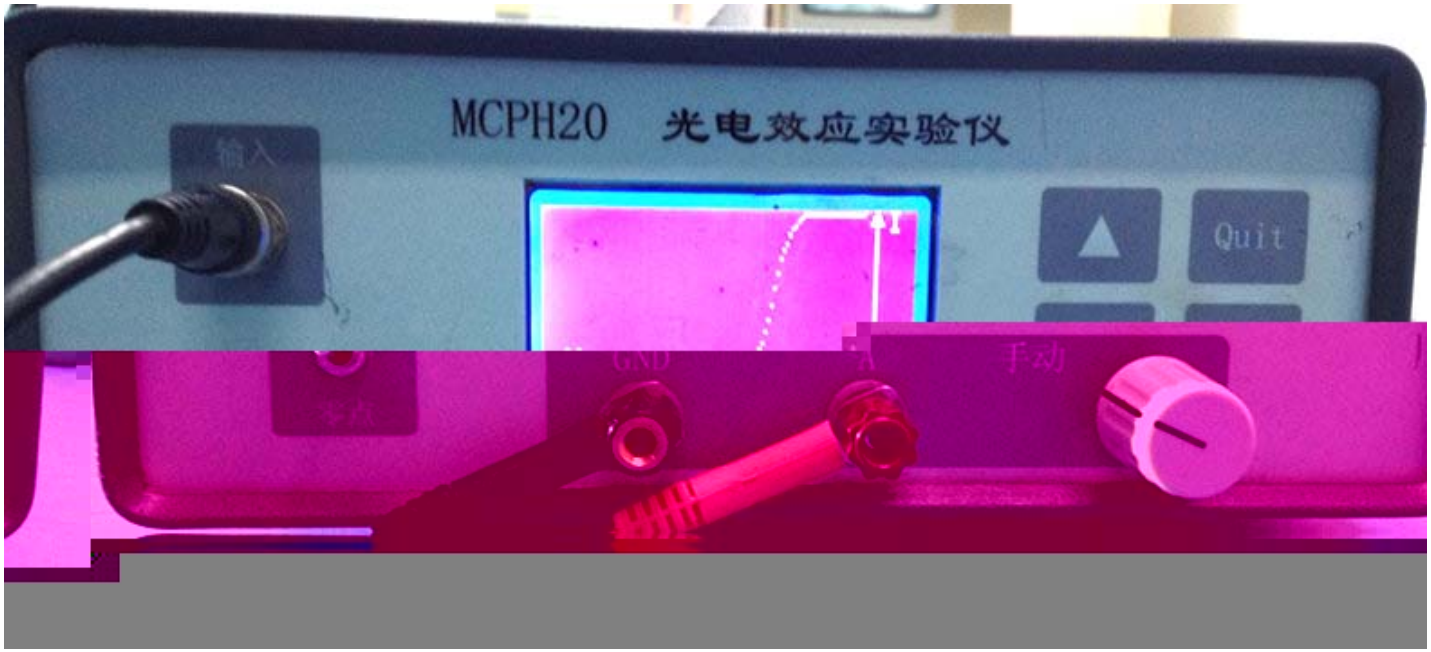


表 3-10 不同波长、电压值下的光电流值

U/V		−2.50	−2.45	−2.40	…	−0.10	−0.05	−0.00
I/pA	365 nm				…			
	405 nm				…			
	436 nm				…			
	546 nm				…			

(3)

(2)

(4) “ ” U_c

3-11

表 3-11 不同波长（频率）的截止电压值

λ /nm	365	405	436	546
ν /10^{14} Hz	**8.219**	**7.407**	**6.897**	**5.494**
U_c /V				

(5) **(4)** U_C

3 U

3.

(1) **3-10** I

U **Excel** “ ”

I-U

(2) **3-11** ($|U_c|$

$|U_c|$ Q

(3) $|U_c|$ Q b

h

(4) h 6.6260872(52) 10^{-34} J s

E

1.

2.

3.

4.

5.

6. **15min**

15min

5min

1. U_c

2.

3.

4.