

IP Controller

Model: IP-60v2

P/N: 416020610-3

INSTRUCTIONS

Revision History

Date	Rev No.	Page	Summary
April 2015	1.10	All	First issued

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1 Introduction

The IP-60v2 is a network device that allows you to communicate with RS-232 enabled devices over a TCP/IP based Ethernet and the Internet using a web browser.

WEB BROWSER

The IP-v2 features an embedded Web Console Program (WCP) that allows developers to change command settings from web browser.

DIRECT COMMANDS

The IP-60v2 also accepts direct commands using a terminal program or suitably programmed network device.

IP-60v2 Supports Temperature Sensors, Light Sensor and Fans.

Maximum Support items from IP-60v2

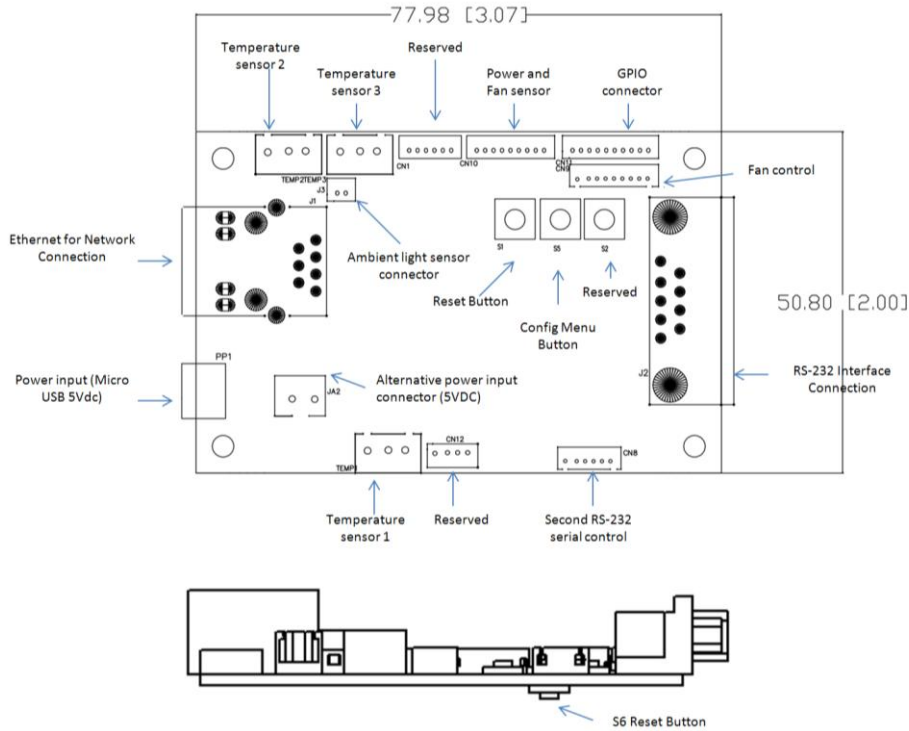
Items	Maximum Support from IP60v2
Temperature Sensors	3pcs
Light Sensor	1pc
Fans	4pcs

It assumes that:

- The IP-60v2 has been correctly attached to:
 - R232
 - Network
 - Power

- Update to the latest firmware and Web Console Program (.bin) for the IP-60v2

1.1 Diagram for showing the board dimensions & connectors:



Remark :

- Unit : mm [inch]
- The above diagram is not draw in scale

Connector definitions:

Connector	Description
CN1	Reserved
CN8	Second RS-232 serial control
CN9	Fan control
CN10	Power and Fan sensor
CN11	GPIO connector
CN12	Reserved
TEMP1	Temperature sensor 1
TEMP2	Temperature sensor 2
TEMP3	Temperature sensor 3
J1	Ethernet for Network Connection
J2	RS-232 Interface Connection
J3	Ambient light sensor connector
JA2	Alternative power input connector (5VDC)
PP1	Power input (Micro USB 5Vdc)
SW1 & 6	Reset Button
SW2	Reserved
SW5	Config Menu Button

1.2 IP Locator

1. Download and install the IP locator V1.02 program

IP Locator reports all the Digital View controllers and enabled devices connected within the same subnet. It shows the IP address, host name, MAC address & other info as shown below:

The image shows two screenshots. The top screenshot is the IP Locator V1.02 application window. It features a 'Discover Devices' button and an 'Exit' button. Below these is a table with the following data:

IP Address	Host Name	MAC Address	Other Info
10.1.0.157		00-05-62-03-0C-D5	

Callouts for the IP Locator window include:

- Press "Discover Devices" to for finding the devices over the network within the same subnet (pointing to the Discover Devices button)
- Exit the IP Locator program (pointing to the Exit button)
- IP Address for IP-60v2 (pointing to the IP address in the table)
- Host Name will show after user updated the web console- network setting page -Host Name (pointing to the Host Name column)
- The MAC address for the devices (pointing to the MAC address in the table)

The bottom screenshot is the 'Network Configure' web page. It includes a sidebar menu with 'Main', 'Network', 'Setting', 'Email Alert', and 'Remote Control'. The main content area shows fields for:

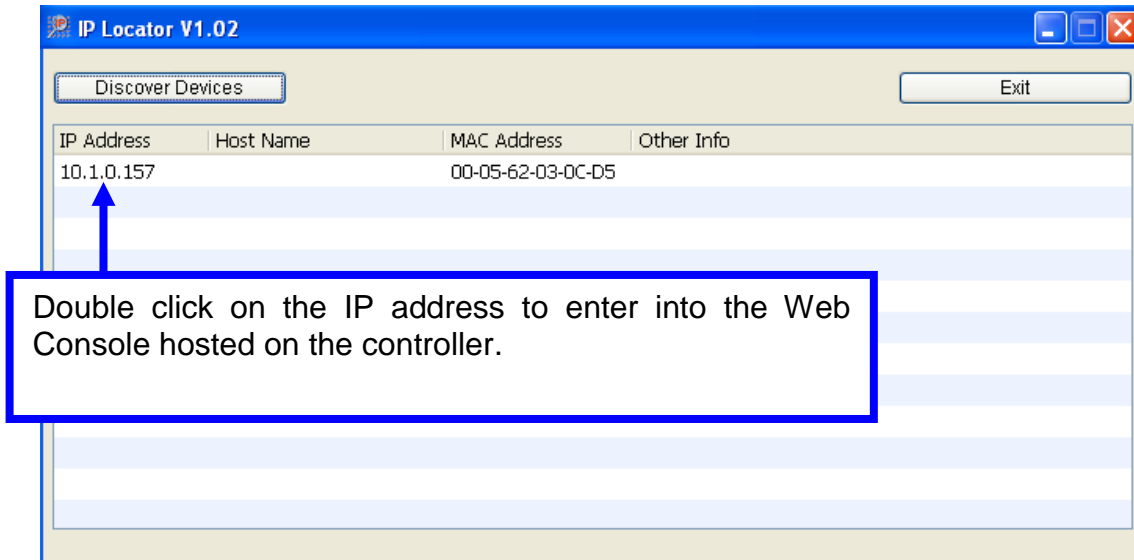
- Firmware Version: E7.02.0.0
- MAC Address: 00:05:62:03:0C:D5
- Host Name: (empty field, Max. 15 characters)
- DHCP: On (selected) / Off
- IP Address: 10.1.0.158
- Subnet Mask Address: 255.255.255.0
- Default Gateway Address: 10.1.0.1
- Primary DNS Address: 202.130.97.66

Buttons for 'Submit' and 'Refresh' are at the bottom.

1.3 Entering Web Console

IP Locator provides a direct path for entering Web Console*.

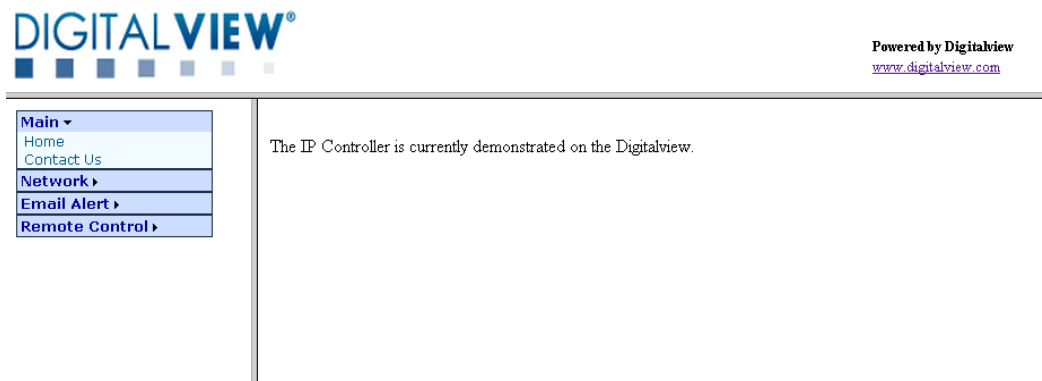
1. Double click on the IP address in the IP Locator window to enter into the Web Console using web browser "Internet Explorer"



2. The front page of the Web Console will be seen after double clicking the IP address of IP-60v2. Also, user can input the IP address of the IP controller that they want to access to the Web Browser (e.g. Internet Explorer), it will direct link to the web console Home page.



3. User can see the first page of Web Console hosted on the IP-60v2. The first screen will be shown as below.



2 Web Console

The Web Console can provide remote control function to the user for controlling and monitoring the GPIO, temperature Sensors, Fans and light sensor from IP-60v2.

2.1 Web Console Functional Menu

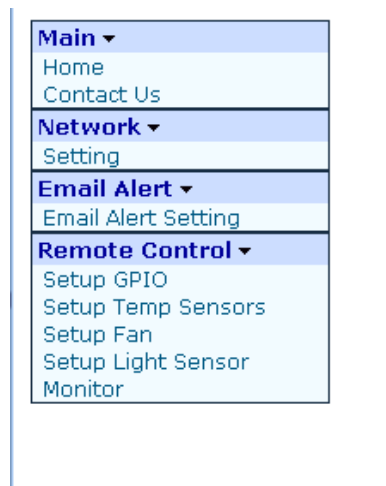
From the web page menu on the left of the screen, User can see the Web Console Functional Menu. It includes the below function:

- **Main**
 - Home
 - Contact Us

- **Network**
 - Setting

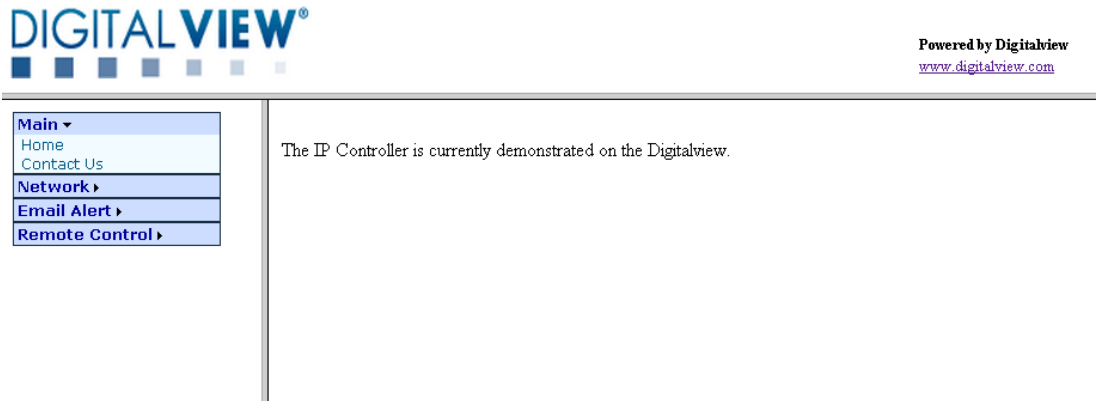
- **Email Alert**
 - Email Alert Setting

- **Remote Control**
 - Setup GPIO
 - Setup Temp Sensors
 - Setup Fan
 - Setup Light Sensor
 - Monitor



2.2 Home Page

After input the IP address of IP-60v2 into the web browser, it will show the first page of the Web Console as below:



2.3 Contact Us Page

Select "Contact Us" page can click to visit Digital View Website or contact Digital View Sales

1. Website for Digital View : <http://www.digitalview.com/>
2. Contact Sales for Digital View



2.4 Network Setting Page

In network setting page, user can define the network setting

Configure

- *Firmware Version* Firmware version of IP-60v2
- *MAC Address* MAC address of IP controller
- *Host Name* ID name without space (max. 15 character)
- *DHCP* DHCP client mode enable/disable
- *IP Address* IP address assigned by DHCP server
- *Subnet Mask Address Subnet* Mask Address
- *Default Gateway Address* Network Gateway Address
- *Primary DNS Address* Network DNS Address



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Main ▾ Home Contact Us	Network Configure
Network ▾ Setting	Firmware Version : <input type="text" value="E7.02.0.0"/>
Email Alert ▸	MAC Address : <input type="text" value="00:05:62:03:0C:D5"/>
Remote Control ▸	Host Name: <input type="text"/> (Max. 15 characters)
	DHCP: <input checked="" type="radio"/> On <input type="radio"/> Off
	IP Address: <input type="text" value="10.1.0.158"/>
	Subnet Mask Address: <input type="text" value="255.255.255.0"/>
	Default Gateway Address: <input type="text" value="10.1.0.1"/>
	Primary DNS Address: <input type="text" value="202.130.97.66"/>
	<input type="button" value="Submit"/> <input type="button" value="Refresh"/>

2.5 Email Alert setting

- Email alert enable On/Off mail alert function

- Gmail Server (Default setting)
 - SMTP Server
 - Use SSL (usually port 465)
 - SMTP Port

- Sender Email Account Email A\C for sender
- Sender Password: Password for sender's mail
- To Email Recipient's mail A\C
- Email Subject: Subject of Alert mail

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Main ▾
Home
Contact Us

Network ▾
Setting

Email Alert ▾
Email Alert Setting

Remote Control ▾
Setup GPIO
Setup Temp Sensors
Setup Fan
Setup Light Sensor
Monitor

Email Alert Configure

Email Alert Enable: On Off

SMTP Server:

Use SSL (usually port 465):

SMTP Port:

Sender Email Account:

Sender Password:

To Email:

Email Subject:

(If you have any update, please "Submit" first and then do the "Email Test!")

2.5.1 Mail Alert message

Mail alert message will be sent to user mail A\C to report the error if the IP60v2 detect error from system when

- Too high temperature (Higher than Warning Ref. Temperature)
- Too low fan speed (Lower than Warning Ref. Temperature)

The Alert report will be as below format:

Controller Alert 收件匣 x



Controller Alert Email <dvhktesting12@gmail.com>

寄給 我

Generated by device E7.02.0.0

Error Code: 0x80

Ref:50°C
T1:Off
T2:Off
T3:Off

Ref:600rpm

Fan1:Off
Fan2:Off
Fan3:Off

Fan4:0rpm-Error

Light:Off

Warning ref. speed is set to 600rpm*

*User can set the warning ref. speed in Remote control page –Setup Fan page.

Error was detected because of the Fan 4 is stop.

Fan4 speed=0rpm < warning ref. speed 600rpm

2.6.1 Remote Control – Setup GPIO

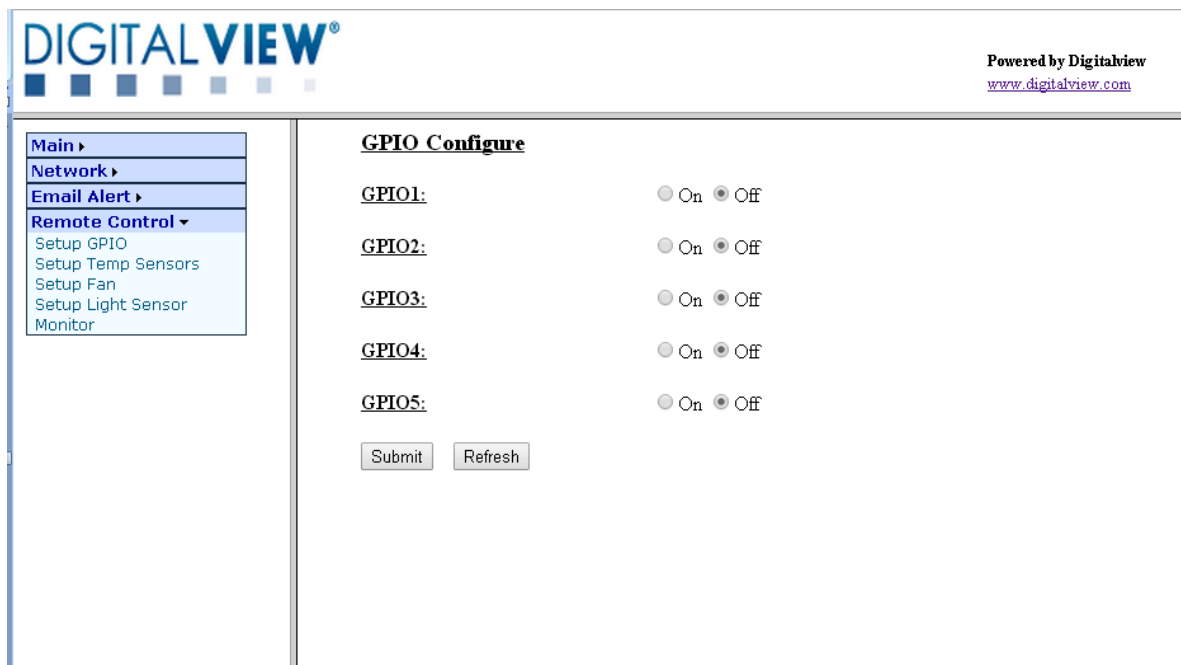
In remote control page, user can define the GPIO On/Off setting.

GPIO Configure

- *GPIO1* : On/Off Setting for *GPIO1*
- *GPIO2* : On/Off Setting for *GPIO2*
- *GPIO3* : On/Off Setting for *GPIO3*
- *GPIO4* : On/Off Setting for *GPIO4*
- *GPIO5* : On/Off Setting for *GPIO5*

Steps for changing GPIO setting:

1. Select GPIO On / Off.
2. Press “Submit” to update GPIO values.
3. Press “Refresh” to update GPIO settings from IP60v2.



2.6.2 Remote Control – Setup Temperature Sensors

User can use this “Remote Control – Setup Temperature Sensors page” to turn ON / Off for the temperature sensors.

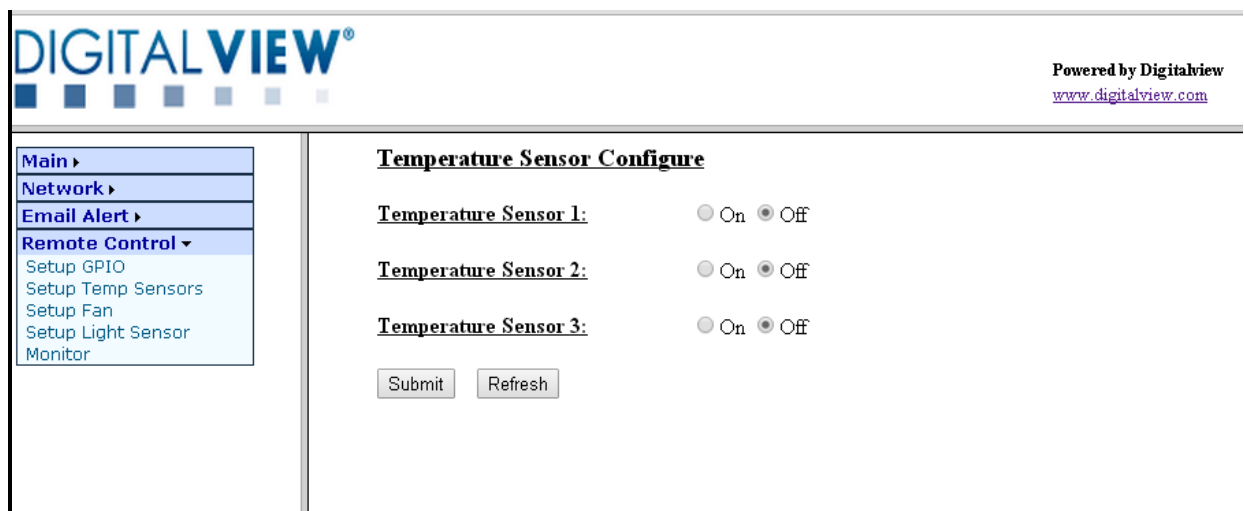
This page provide below function to change the setting of temperature sensors:

Temperature Sensors Configure

- *Temperature Sensor 1* : On/Off Setting for Temperature Sensor 1
- *Temperature Sensor 2* : On/Off Setting for Temperature Sensor 2
- *Temperature Sensor 3* : On/Off Setting for Temperature Sensor 3

Setup Temperature Sensors:

1. Select Temperature Sensor On / Off.
2. Press “Submit” to update Temperature sensor values.
3. Press “Refresh” to update Temperature settings from IP60v2.



The screenshot shows the Digital View web interface. At the top left is the Digital View logo. At the top right, it says "Powered by Digitabview" and provides the website URL "www.digitalview.com". On the left side, there is a navigation menu with the following items: Main, Network, Email Alert, and Remote Control (which is expanded to show Setup GPIO, Setup Temp Sensors, Setup Fan, Setup Light Sensor, and Monitor). The main content area is titled "Temperature Sensor Configure". It contains three rows, each with a label and two radio buttons: "Temperature Sensor 1:" with "On" and "Off" radio buttons (where "Off" is selected); "Temperature Sensor 2:" with "On" and "Off" radio buttons (where "Off" is selected); and "Temperature Sensor 3:" with "On" and "Off" radio buttons (where "Off" is selected). At the bottom of this section are two buttons: "Submit" and "Refresh".

2.6.3 Remote Control – Setup Fan

User can use this “Remote Control – Setup Fan” to change the Fan setting.
Configure

- *Warning Ref. Speed* Revolution per minute (RPM)
- *Warning Ref. Temperature :* Degree Celsius (°C)
- *Max Speed Ref. Temperature :* Degree Celsius (°C)
- *High Speed Ref. Temperature :* Degree Celsius (°C)
- *Fan 1 :* On/Off Setting for Fan 1
- *Fan 2 :* On/Off Setting for Fan 2
- *Fan 3 :* On/Off Setting for Fan 3
- *Fan 4 :* On/Off Setting for Fan 4
- *Fan 5 :* On/Off Setting for Fan 5

Setup Warning ref. for error message:

1. Warning Ref Speed.
When a fan is slower than this reference speed, IP60v2 should send an error message via RS-232.
2. Warning Ref Temperature.
When sensor temperature is higher than this reference value, IP60v2 should send an error message via RS-232.

Setup Fan speed:

Max Speed Ref Temperature.

When temperature sensor reading is higher than this reference value, all fan on IP60v2 should be in full speed mode.

High Speed Ref Temperature

When temperature sensor reading is slower than this reference value, all fan on IP60v2 should be in normal speed mood.

Between High Speed Ref Temperature and Max Speed Ref Temperature.

When temperature sensor reading reference value is between High Speed Ref Temperature and Max Speed Ref Temperature, all fans on IP60v2 should be in high speed mood



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2.6.4 Remote Control – Setup Light Sensor

User can use this “Remote Control – Setup Light Sensor” to change the light sensor setting

Configure

- *Brighter Ref. Value* : Light sensor reference voltage for Brighter (mVolts)
- *Darker Ref. Value* : Light sensor reference voltage for Darker (mVolts)
- *Max Back Light Level(0-64)*: Max backlight level for controller (Hex)
- *Normal Back Light Level(0-64)*: Normal backlight level for controller (Hex)
- *Min Back Light Level(0-64)*: Min backlight level for controller (Hex)

Setup Light Sensor Ref. Value

1. Brighter Ref. Value:

When Light Sensor value is higher than this reference value, IP60v2 should send a message to controller via RS-232 to change panel backlight to **Max Back Light Level (0-64)**.

2. Darker Ref. Value:

When Light Sensor value is lower than this reference value, IP60v2 should send a message to controller via RS-232 to change panel backlight to **Min Back Light Level (0-64)**.

3. Between Darker Ref. Value and Brighter Ref. Value

When Light Sensor value is between Darker Ref. Value and Brighter Ref. Value, IP60v2 should send a message to controller via RS-232 to change panel backlight to **Normal Back Light Level (0-64)**.

The screenshot shows the 'Light Configure' page in the Digital View web interface. On the left is a navigation menu with options: Main, Network, Email Alert, Remote Control (expanded to show Setup GPIO, Setup Temp Sensors, Setup Fan, Setup Light Sensor, and Monitor). The main content area is titled 'Light Configure' and contains the following settings:

- Brighter Ref. Value:** 1500 mVolts
- Darker Ref. Value:** 800 mVolts
- Max Back Light Level(HEX):** 01
- Normal Back Light Level(HEX):** 80
- Min Back Light Level(HEX):** 00
- Light Sensor:** Radio buttons for On and Off, with 'On' selected.

At the bottom of the form are 'Submit' and 'Refresh' buttons. The top right of the page indicates it is 'Powered by Digitabiew' with the website URL 'www.digitalview.com'.

2.6.5 Remote Control – Monitor

User can use this “Remote Control – Monitor” to view the status for Temperature Sensors, Fan, Light Sensor.

Monitoring present system status:

Temperature Monitor

- *TEMP1:* Show Temperature Sensors 1 Degree Celsius (°C)
- *TEMP2:* Show Temperature Sensors 2 Degree Celsius (°C)
- *TEMP3:* Show Temperature Sensors 3 Degree Celsius (°C)
-

PWM Monitor

- *PWM1:* Show Fan 1 Revolution per minute (RPM)
- *PWM2:* Show Fan 2 Revolution per minute (RPM)
- *PWM3:* Show Fan 3 Revolution per minute (RPM)
- *PWM4:* Show Fan 4 Revolution per minute (RPM)

Light Monitor

- *LIGHT1:(0-2200)* Show light sensor reference voltage (mVolts)

The Page of Remote Control – “Monitor” will be refreshed every 5 Second and provide updated system information for the user.

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<ul style="list-style-type: none"> Main > Network > Email Alert > Remote Control > <ul style="list-style-type: none"> Setup GPIO Setup Temp Sensors Setup Fan Setup Light Sensor Monitor 	<p>Temperature Monitor</p> <p><i>TEMP1:</i> <input type="text" value="N/A"/> °C</p> <p><i>TEMP2:</i> <input type="text" value="N/A"/> °C</p> <p><i>TEMP3:</i> <input type="text" value="N/A"/> °C</p> <p>PWM Monitor</p> <p><i>PWM1:</i> <input type="text" value="N/A"/> RPM</p> <p><i>PWM2:</i> <input type="text" value="N/A"/> RPM</p> <p><i>PWM3:</i> <input type="text" value="N/A"/> RPM</p> <p><i>PWM4:</i> <input type="text" value="0"/> RPM</p> <p>Light Monitor</p> <p><i>LIGHT1:(0-2200)</i> <input type="text" value="N/A"/> mVolts</p> <p style="text-align: center;"><input type="button" value="Refresh"/></p>
--	--

3 Direct Mode Control

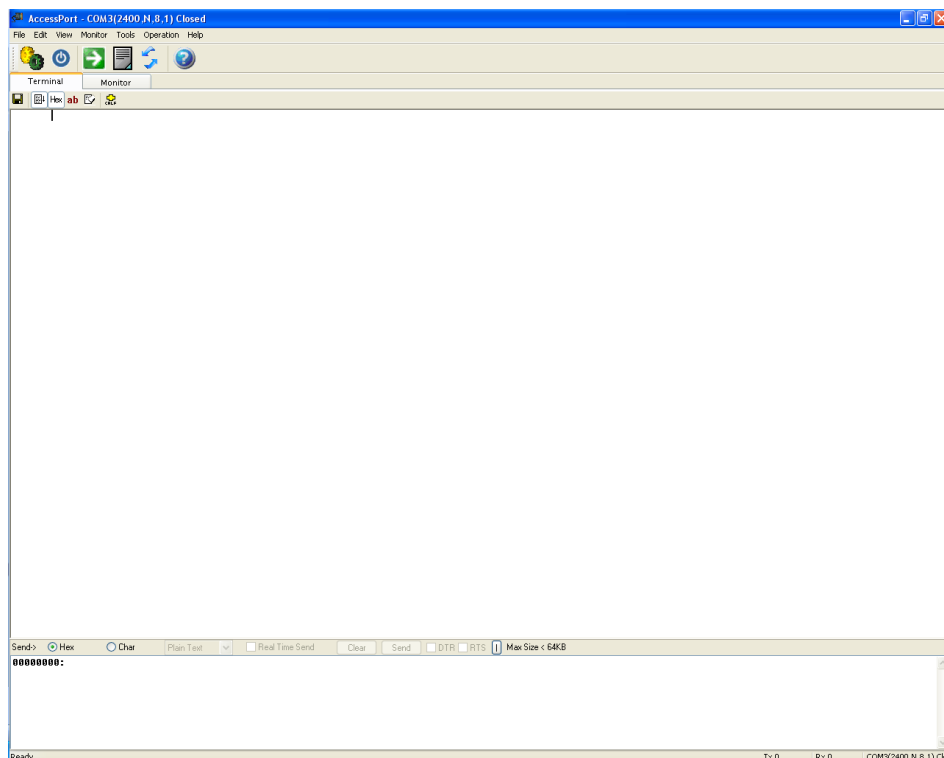
IP-60v2 supports direct mode and browser mode to control the controller. User can select either Direct Mode or Browser Mode to control the controller on each boot up

** Switching control mode requires power cycle of the IP-60v2.**

Direct mode control is to use a PC based application to control functions over the network.

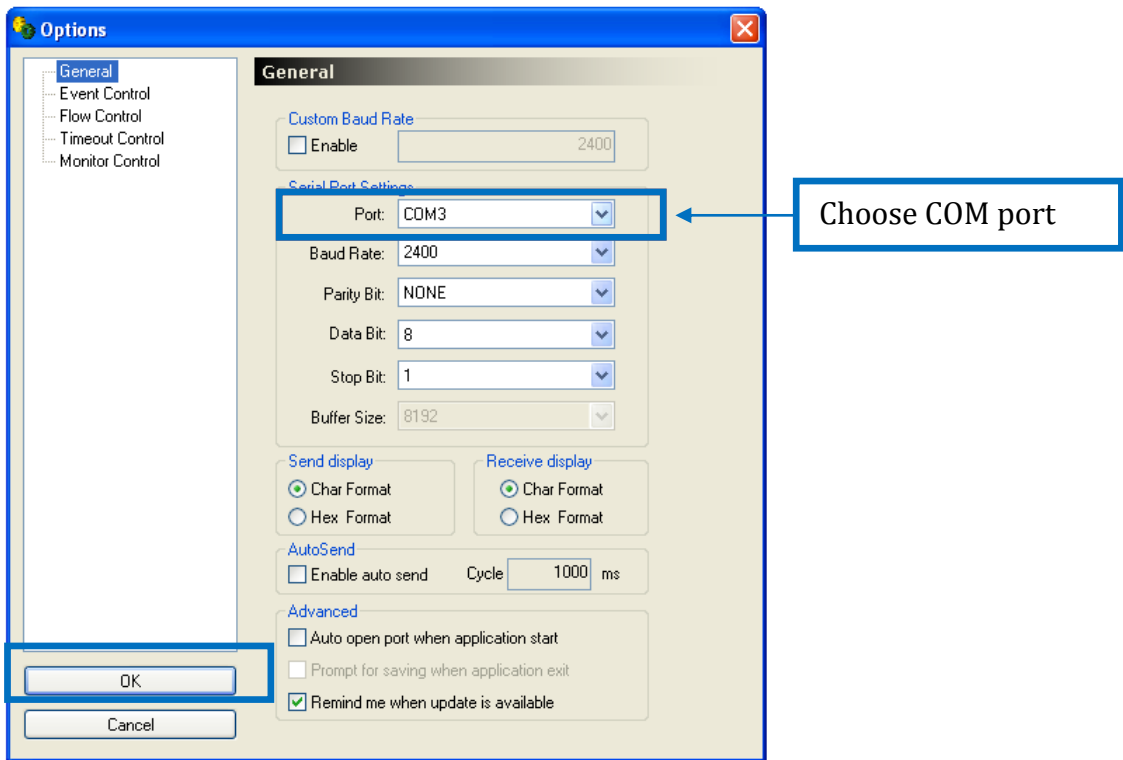
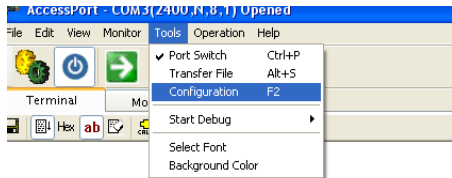
The remote control function can be controlled through sending the RS-232 protocol. User might use program –AccessPort to control the setting from R232.

AccessPort:



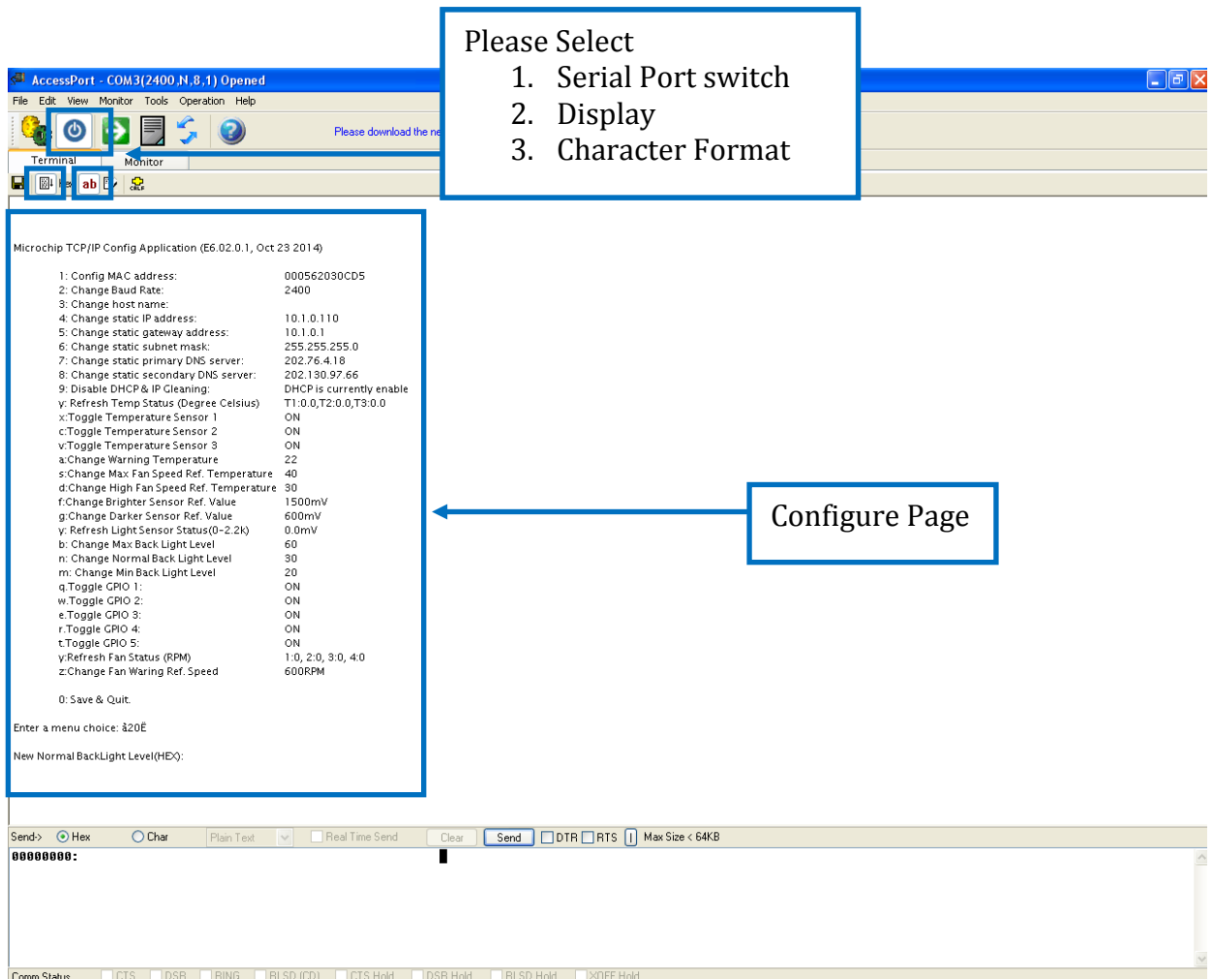
3.1 Enter to Configure Page

1. Open the “AccessPort” RS-232 program. Tick “Port Switch” and then go to “Tool” → “Configuration” to follow the settings stated below to choose COM Port:



2. On AccessPort software, Please make sure it select
 1. Serial Port switch
 2. Display
 3. Character Format

3. Click the Config Menu Button SW5 at IP60v2 to enter Configure Page from Access Port: (Note: Click the SW1 to refresh and back to Web Console)



3.2 Example for Change Normal Back Light Level

Step 1:

From config menu, user can see option from to control.

Eg. n: Change Normal Back Light Level 30

Step 2:

Enter a menu choice to control and monitor the IP60v2 from Access Port

Eg. Enter “n” to the AccessPort software and click “Send” button.

Configure Page will show the word of your selected option - “New Normal BackLight Level(HEX).”

The screenshot shows the AccessPort software interface. The terminal window displays the Microchip TCP/IP Config Application menu. The option 'n: Change Normal Back Light Level 30' is highlighted. Below the menu, the terminal input field contains 'n' and the 'Send' button is visible. A callout box points to the 'n' in the input field with the text: 'Enter “n” to the AccessPort software and click “Send” button'. Another callout box points to the 'New Normal BackLight Level(HEX):' label in the terminal output with the text: 'After click “Send” button, this will show your selected option'. The terminal output shows '00000000:6E'.

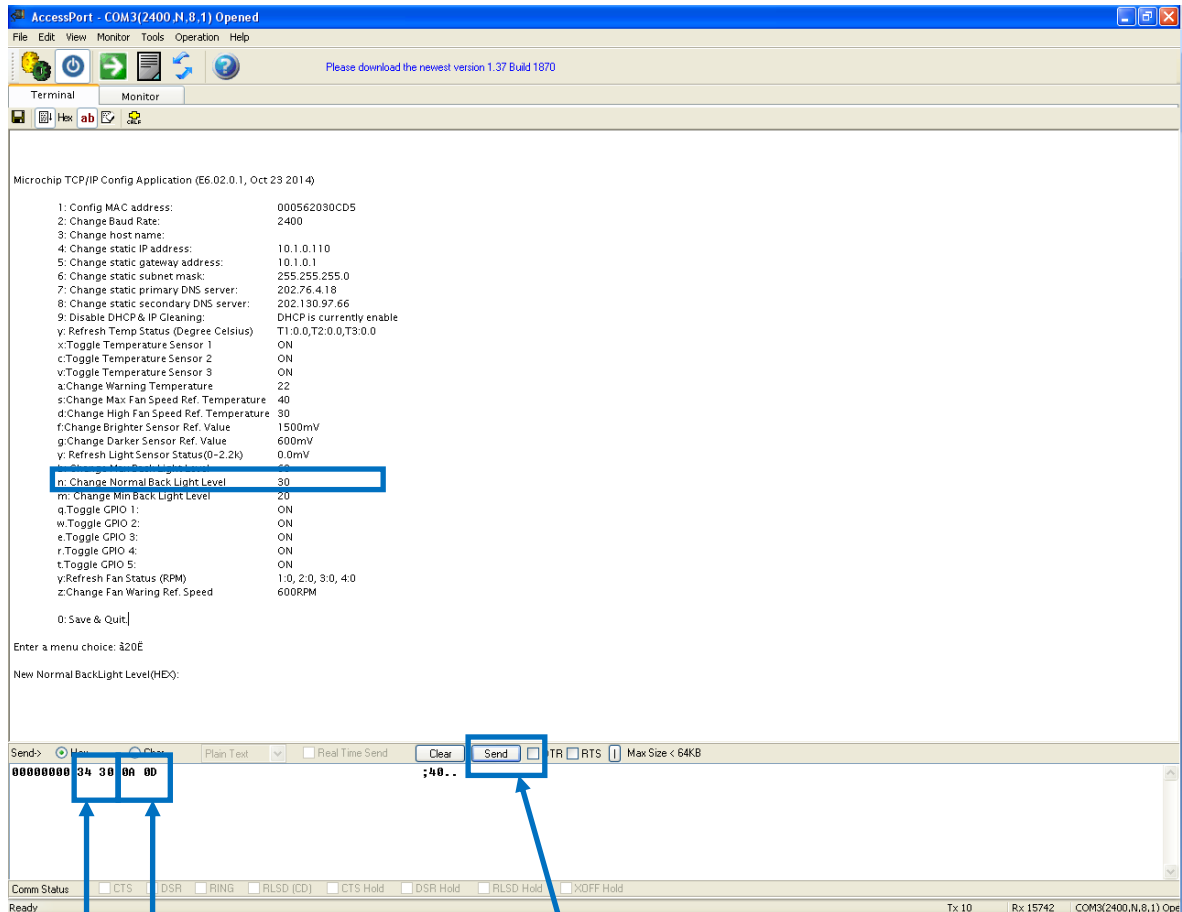
Step 3:

Input value to change the normal backlight level.

Eg. 40 (Hex converse to ASCII form table is 34 30)

Enter 34 30 0A0D and click "Send" Button to send out the command

Remark: After changing value, please Input "0A0D" before click "Send" button.



Input "0A0D" after the digit to change the value

Click "Send" button

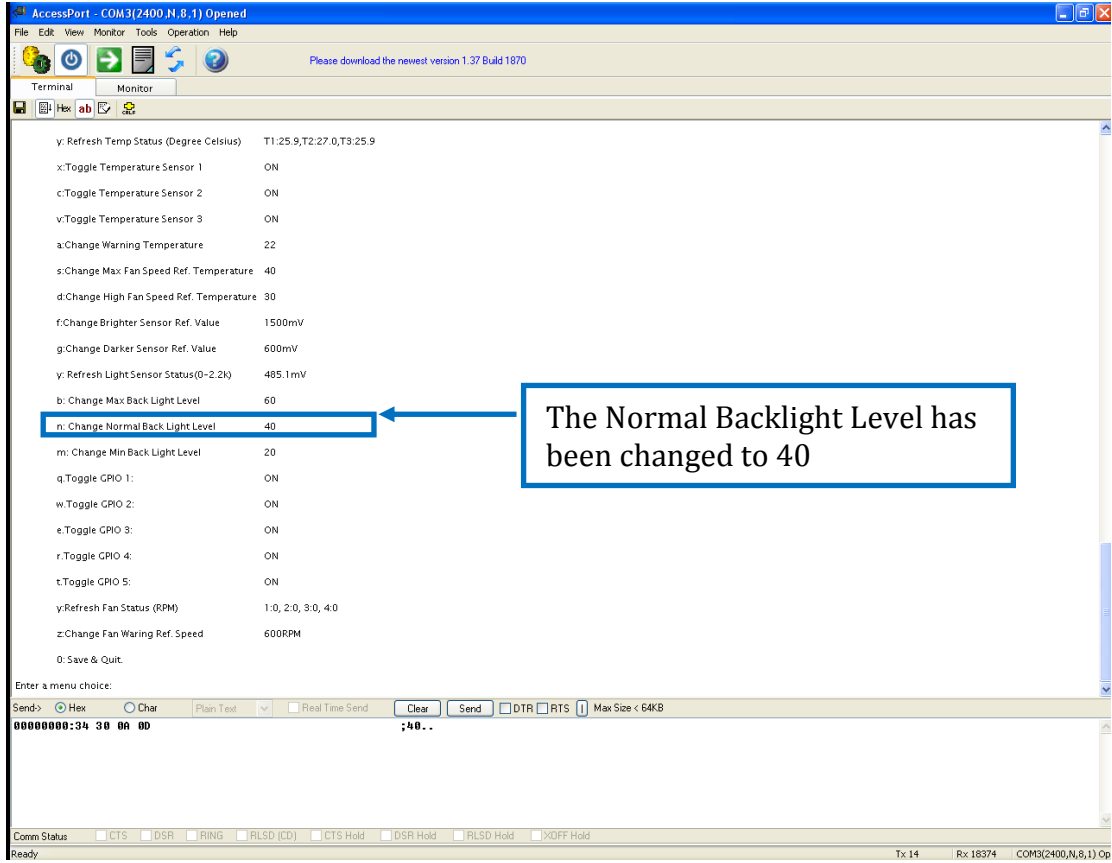
Input the value you want to change
Eg.40 (Hex converse to ASCII form table is 34 30)
Remark: Please refer to the ASCII to Hex convert table below.

Hex to ASCII conversion table

Hex	ASCII	Hex	ASCII	Hex	ASCII	Hex	ASCII
0x30	0	0x41	A	0x61	a	0x2B	+
0x31	1	0x42	B	0x62	b	0x2D	-
0x32	2	0x43	C	0x63	c	0x3F	?
0x33	3	0x44	D	0x64	d		
0x34	4	0x45	E	0x65	e		
0x35	5	0x46	F	0x66	f		
0x36	6	0x47	G	0x67	g		
0x37	7	0x48	H	0x68	h		
0x38	8	0x49	I	0x69	i		
0x39	9	0x4A	J	0x6A	j		
		0x4B	K	0x6B	k		
		0x4C	L	0x6C	l		
		0x4D	M	0x6D	m		
		0x4E	N	0x6E	n		
		0x4F	O	0x6F	o		
		0x50	P	0x70	p		
		0x51	Q	0x71	q		
		0x52	R	0x72	r		
		0x53	S	0x73	s		
		0x54	T	0x74	t		
		0x55	U	0x75	u		
		0x56	V	0x76	v		
		0x57	W	0x77	w		
		0x58	X	0x78	x		
		0x59	Y	0x79	y		
		0x5A	Z	0x7A	z		

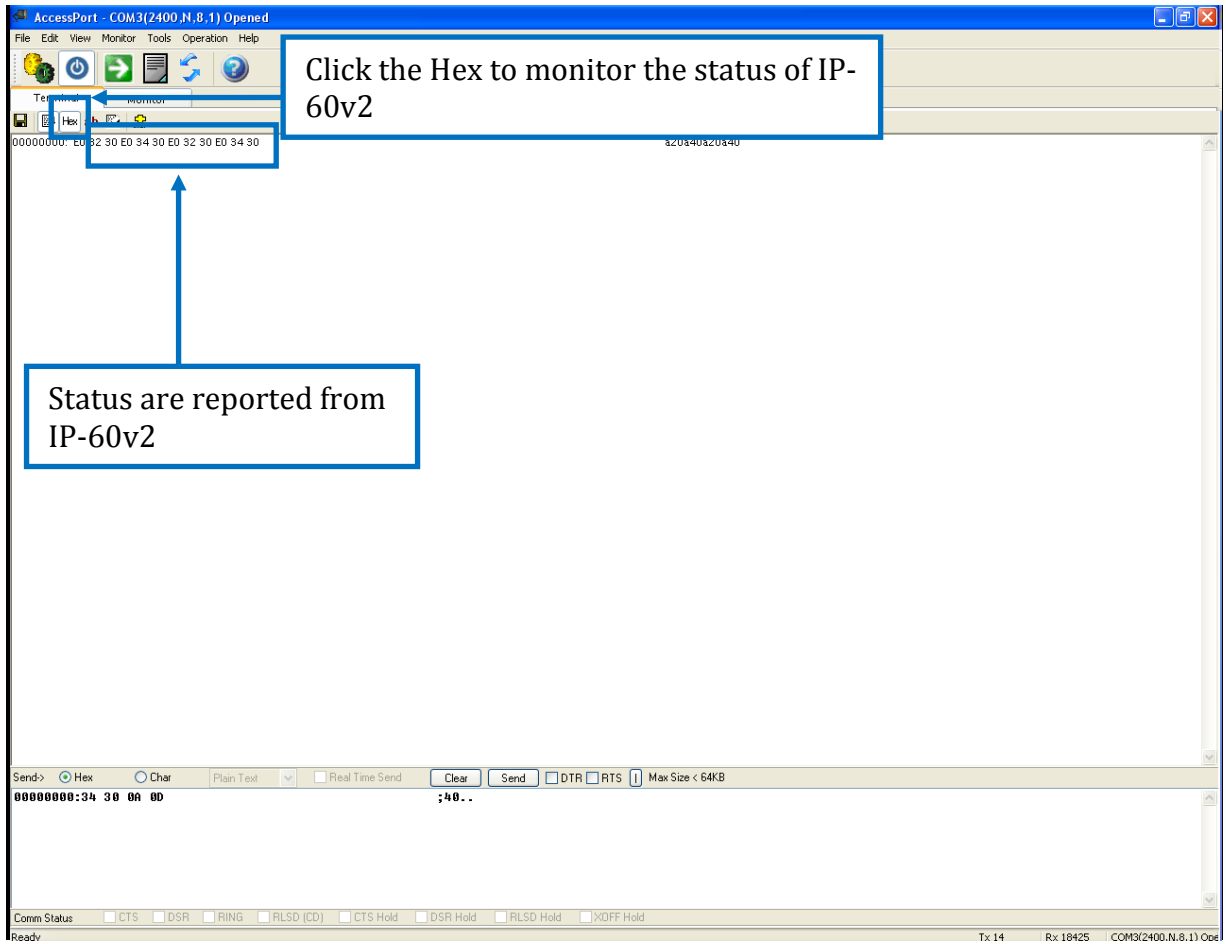
Step 4

After finished above procedure, the normal backlight level has been changed to 40.



3.3 Monitor the status from direct mode

Click the Hex to monitor the status from direct mode.



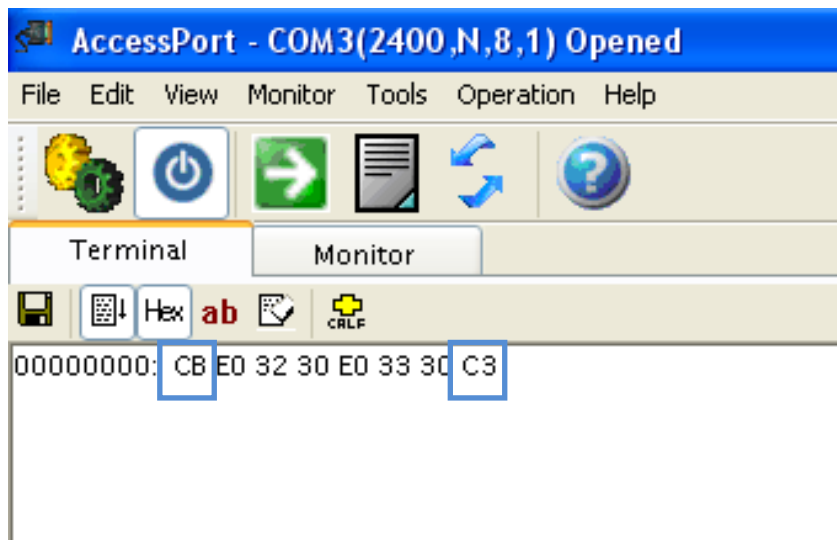
Status board error code

Hex	Bin	Error caused from
01	0000000 1	Fan 1
02	000000 10	Fan 2
40	01 000000	Fan 3
80	1 0000000	Fan 4
08	0000 1 000	Temperature sensor

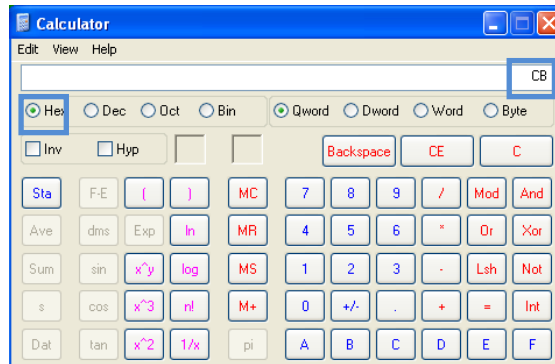
How to check the Combination error code

Example:

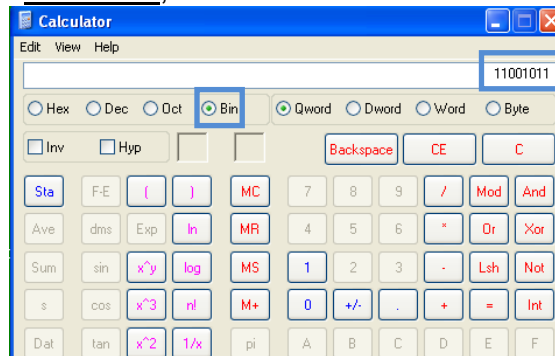
1. When you see the “CB” and “C3” error code in AccessPort status



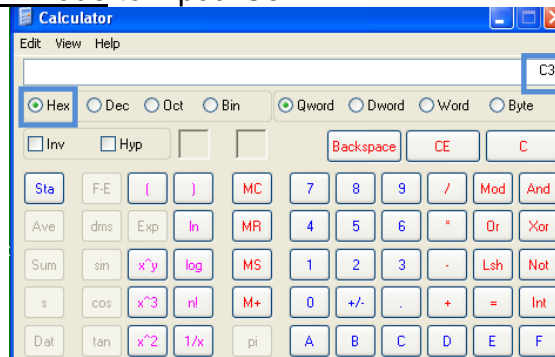
2. Using calculator of Hex mode to input “CB”



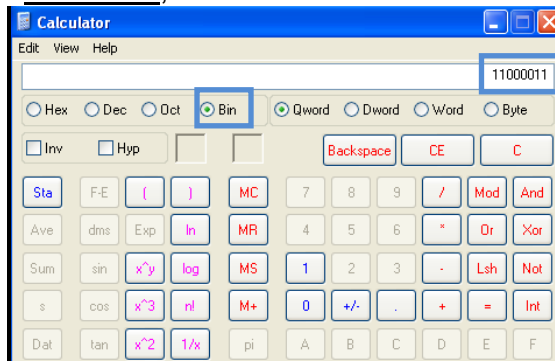
3.Changing Calculator to Bin Mode, You will see 11001011



4.Using calculator of Hex mode to input "C3"



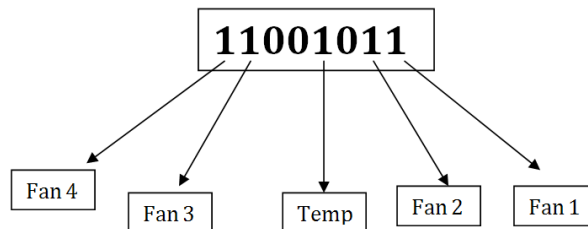
5.Changing Calculator to Bin Mode, You will see 11000011



6. According to the error code table, you will find the error part from position of digit.

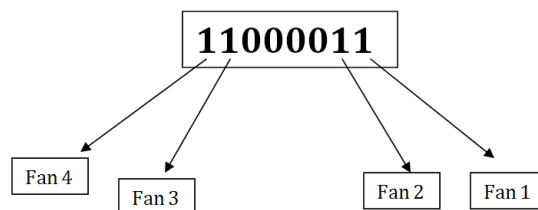
Hex	Bin	Error caused from
01	0000000 1	Fan 1
02	000000 10	Fan 2
40	01 000000	Fan 3
80	1 0000000	Fan 4
08	0000 1 000	Temperature sensor

“CB” error code is 11001011



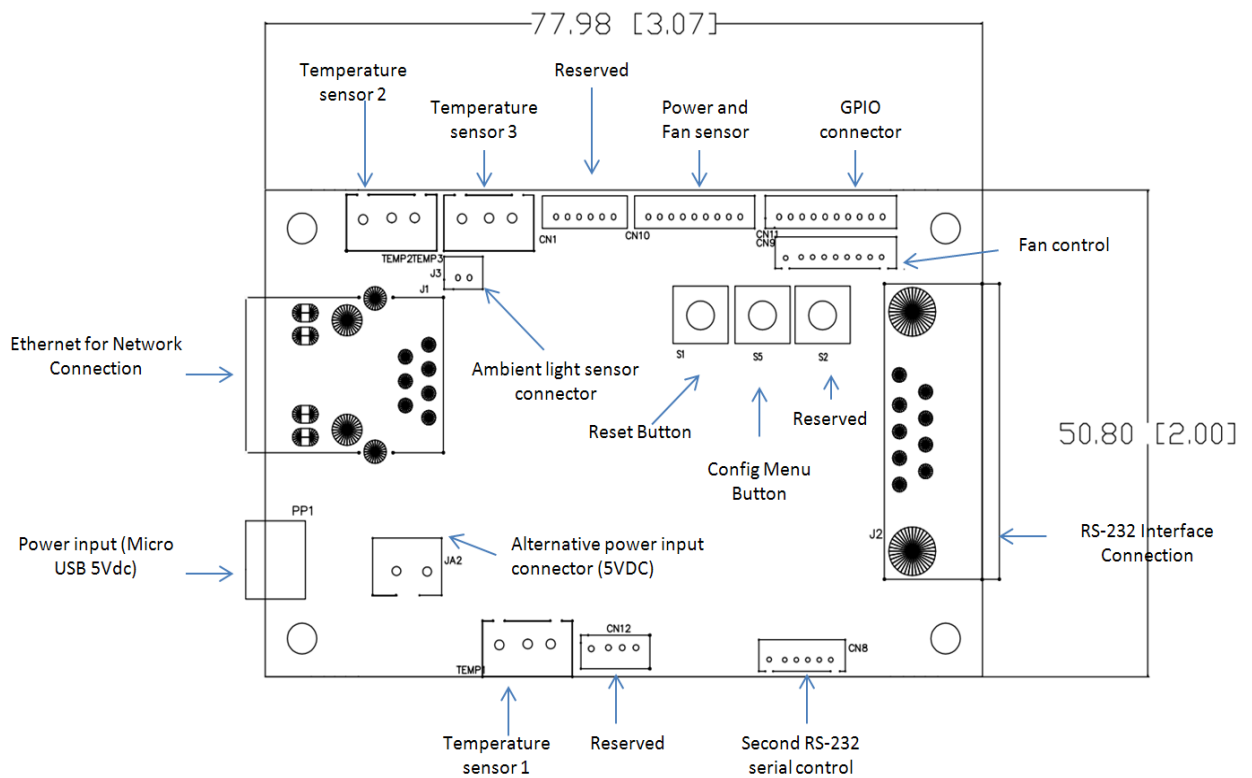
Therefore, the errors are caused from Fan 1, Fan 2, Fan 3, Fan4 and Temperature sensor.

“C3” error code is 11000011



Therefore, the error are caused from Fan 1, Fan 2, Fan3 and Fan4

4 Summary of Pin Outs:



CN1 – Reserved: HRS DF13-6P-1.25DSA THR/STRI

Pin	Symbol	Description
1	/MCLR	Reserved for programming used
2	PICVDD	3.3V
3	GND	Ground
4	PGD	Reserved for programming used
5	PGC	Reserved for programming used
6	NC	No connection

CN8 – Second RS-232 serial control: JS-1147A-06 (1.25mm)

Pin	Symbol	Description
1	SDA2	I2C Data
2	SCL2	I2C Clock
3	PICVDD	3.3V
4	TX	RS-232 TX
5	GND	Ground
6	RX	RS-232 RX

CN9 – Fan control: JS-1147A-09

Pin	Symbol	Description
1	TACH1IN	Tachometer IN of Fan1
2	TACH2IN	Tachometer IN of Fan2
3	TACH3IN	Tachometer IN of Fan3
4	TACH4IN	Tachometer IN of Fan4
5	PWM1	PWM control for Fan1
6	PWM2	PWM control for Fan2
7	PWM3	PWM control for Fan3
8	PWM4	PWM control for Fan4
9	GND	Ground

CN10 – Power and Fan sensor: HRS DF13-9P-1.25DSA THR/STRI

Pin	Symbol	Description
1	GND	Ground
2	TACH1IN	Tachometer IN of Fan1
3	GND	Ground
4	TACH2IN	Tachometer IN of Fan2
5	GND	Ground
6	PS_V1IN	Reserved
7	GND	Ground
8	PS_V2IN	Reserved
9	AUX	Reserved

CN11 – GPIO: HRS DF13-10P-1.25DSA THR/STRI

Pin	Symbol	Description
1	GPO_1	General purpose Output 1
2	GND	Ground
3	GPO_2	General purpose Output 2
4	GND	Ground
5	GPO_3	General purpose Output 3
6	GND	Ground
7	GPO_4	General purpose Output 4
8	GND	Ground
9	GPO_5	General purpose Output 5
10	GND	Ground

CN12 – Reserved: JST B4B-ZR

Pin	Symbol	Description
1	5V	5V
2	D-/RG3	Reserved
3	D+/RG2	Reserved
4	GND	Ground

Temp1 – Temperature sensor 1: WAFER 3P 2.5mmP (JST XH COMPA)

Pin	Symbol	Description
1	GND	Ground
2	PICVDD	3.3V
3	TMP1	Temperature Sensor Output 1

Temp2 - Temperature sensor 2: WAFER 3P 2.5mmP (JST XH COMPA)

Pin	Symbol	Description
1	GND	Ground
2	PICVDD	3.3V
3	TMP2	Temperature Sensor Output 2

Temp3 - Temperature sensor 3: WAFER 3P 2.5mmP (JST XH COMPA)

Pin	Symbol	Description
1	GND	Ground
2	PICVDD	3.3V
3	TMP3	Temperature Sensor Output 3

JA2 – Alternative power input connector (5Vdc): WAFER 2P 2.5mmP (JST XH COMPA)

Pin	Symbol	Description
1	5V	Alternate 5V input
2	GND	Ground

J3 – Ambient light sensor connector: HRS DF13-2P-1.25DSA THR/STRI

Pin	Symbol	Description
1	Sensor	Light Sensor Input
2	PICVDD	3.3V

PP1 - Power input: Micro USB (5Vdc)

Pin	Description
1	Micro USB - 5Vdc
2	NC
3	NC
4	NC
5	Ground

5 Contact Details

USA: Digital View Inc.
18440 Technology Drive
Building 130
Morgan Hill, CA 95037
Tel: (1) 408-782 7773 **Fax:** (1) 408-782 7883
Sales: ussales@digitalview.com

EUROPE: Digital View Ltd.
The Lake House
Knebworth Park
Herts, SG3 6PY
UK
Tel: (44) (0)20 7631 2150 **Fax :** (44) (0)20 7631 2156
Sales : uksales@digitalview.com

ASIA: Digital View Ltd.
2/F Bamboos Centre
52 Hung To Road
Kwun Tong
Hong Kong
Tel: (852) 28613615 **Fax:** (852) 25202987
Sales: hksales@digitalview.com

Specifications subject to change without notice

Application Note – Application note for Web Console

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