SBL-P2022V2

20" (1/2 cut) Bar LCD
Open Frame Monitor

The specifications listed in this document are subject to change without prior notice.

28th March 2014

Contents

1. General Description

1.1 Overview

The SBL-P2022V2 is a 20" 1/2 cut bar LCD monitor providing high quality ultra widescreen images from the VGA or DVI inputs. The original 21.5" panel is 1/2 cut to produce a 20" display with a resolution of 1920 x 510 pixels.

1.2 General Specifications

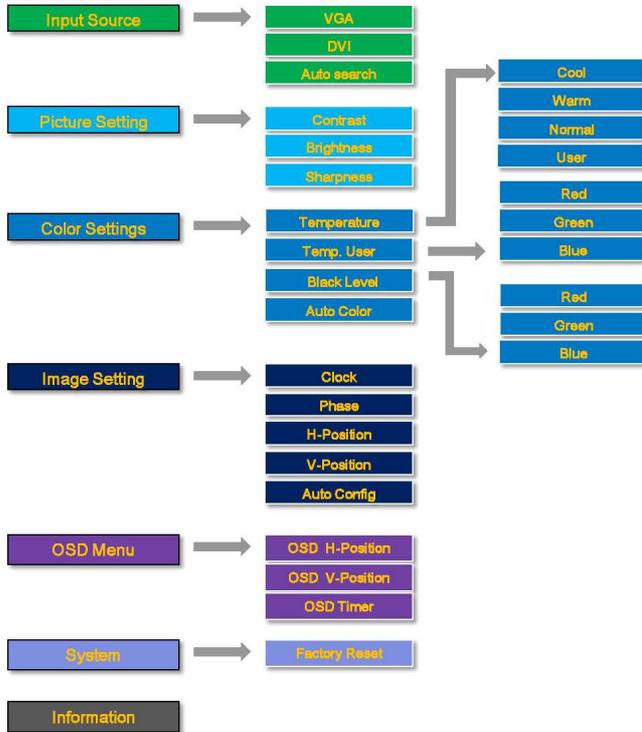|		
Panel Details	Size	20" Diagonal (21.5" 1/2 cut)
	Native Resolution	1920 x 510
	Active Display Area	475.2 x 126.23 mm
	Pixel Pitch	0.2475 x 0.2475 mm
	Colour Depth	6-bit + A-FRC, 16.7 million
	Surface Treatment	Hard Coating (3H), anti-glare
	Viewing Angle	H: 178°, V:178° (Typ.)
	Contrast Ratio	1000:1 (Typ.)
	Brightness	500 cd/m^2 (Typ.)
Refresh Rates	All Input Resolutions	60Hz
Input Interface	VGA	15-pin D-SUB
	DVI	24-pin DVI-D
Power Interface	DC Input	+12Vdc or +24Vdc
	Power connector	DC Jack (2.5mm)
	Max. Power Consumption	TBD
Environmental Conditions	Operating Temperature	0 to 50°C
	Storage Temperature	-20 to 60°C
	Operating Humidity	10 to 90 %^{RH}
MTTF		50,000 hours (Typ.)
Board kit options	SBL-P2022V2-SD1	Standard board
	SBL-P2022V2-SD5	Advanced board (IR, thermal & brightness control, audio)

1.3 Mechanical Specifications

Outer Dimensions	Width	495mm
	Height	151mm
	Depth	11mm *1
Chassis	Construction	Steel

*1 LCD panel only depth. Total unit depth is dependent upon board kit location, and can be made to customer specification.

2. User Control and OSD

2.1 Key Control Board

9.2 OSD Key Description

Symbol	Description
MENU	Menu display or sub item selection and exit to the previous menu level.
DOWN	Move sub items.
DECREASE	Value Decrement
INCREASE	Value Increment
SOURCE	Source selection

9.3 Hot Key Description

Symbol	Description
DOWN	Auto Adjust, VGA input only
DECREASE	Brightness adjustment.
INCREASE	Brightness adjustment.

2.2 OSD Menu System

[Note]

1) Image setting menu is available for only VGA input source.

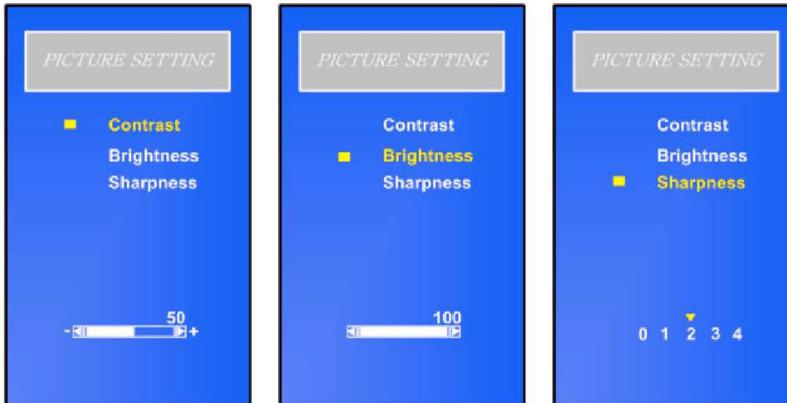### MAIN MENU & INPUT SOURCE

- ➢ **VGA**   : VGA Input signal select
- ➢ **DVI**   : DVI Input signal select
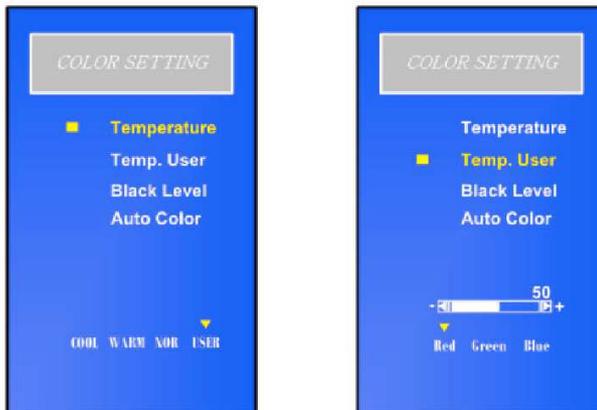- ➢ **Auto Search** : Input signal auto search

PICTURE SETTING

➢ **Contrast** : Adjust contrast of the screen
➢ **Brightness** : Adjust brightness of the screen
➢ **Sharpness** : Adjust sharpness of the screen

COLOR SETTING

➢ **Color Temp**
  ❖ **Cool** : Blue-tinged screen
  ❖ **Warm** : Red-tinged screen
  ❖ **NOR** : Select Normal screen
  ❖ **User** : Adjust R,G,B value of color temperature
➢ **Temp. User**[1]
  ❖ **Red** : Adjust R value of the User color settings
  ❖ **Green** : Adjust G value of the User color settings
  ❖ **Blue** : Adjust B value of the User color settings

[Note]
1) Temp.User is available for Temperature User menu.

IMAGE SETTING

> **Clock**   : Adjust the clock of the screen
> **Phase**   : Adjust the phase of the screen
> **H-Position**   : Adjust horizontal position of the screen

[Note]

1) Image setting menu is available for only VGA input source.

IMAGE SETTING

> **V-Position**   : Adjust vertical position of the screen
> **Auto Config** : Execute auto adjust for phase, clock and position

[Note]

1) Image setting menu is available for only VGA input source.

OSD SETTING

> **OSD H-Position** : Adjust horizontal position of the OSD
> **OSD V-Position** : Adjust vertical position of the OSD
> **OSD Timer** : Select OSD turn-off time

SYSTEM & INFORMATION

[Input Source]

VGA

[Mode]

1920 x 1080 60 Hz

[Version]

SVN1XXXX-x.xxAB

SYSTEM
> **Factory Reset** : Initialize OSD value.

INFORMATION
> **Input Source** : Information of the main source
> **Mode** : Information of the Resolution
> **Version** : Software version

3. Connector Pin Descriptions

3.1 VGA

▶ Analog RGB Input Connector
Connector : Mini D-Sub 15pin(P202) made by ARC

Pin No.	Symbol	Description	Pin No.	Symbol	Description
1	RED	Analog red signal	9	+5V	+5Vdc
2	GREEN	Analog green signal	10	SGND	Sync ground
3	BLUE	Analog blue signal	11	NC	No connection
4	GND	Digital ground	12	SDA	DDC data
5	GND	Digital ground	13	HSYNC	Horizontal sync
6	RGND	Red return	14	VSYNC	Vertical sync
7	GGND	Green return	15	SCL	DDC clock
8	BGND	Blue return			

3.2 DVI-D

▶ DVI-D Input Connector
Connector : DVI-D (P201) made by Foxconn

Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol
1	TMDS data 2-	9	TMDS data 1-	17	TMDS data 0-
2	TMDS data 2+	10	TMDS data 1+	18	TMDS data 0+
3	TMDS data 2/4 Shield	11	TMDS data 1/3 Shield	19	TMDS data 0/5 Shield
4	TMDS data 4-	12	TMDS data 3-	20	TMDS data 5-
5	TMDS data 4+	13	TMDS data 3+	21	TMDS data 5+
6	DDC clock	14	+5Vin	22	TMDS clock shield
7	DDC data	15	Ground (for +5Vin)	23	TMDS clock +
8	No connection	16	Hot plug detect	24	TMDS clock -

4. Mechanical Drawing

1920*510