

Industrial LCD Monitor MODEL : GS265NM-LN01 [PN : GS265NM1-LN01AFS]
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(●)	Preliminary Specification
()	Final Specification

Customer

Customer's Approval	
<u>Signature</u>	<u>Date</u>

<u>Prepared By</u>	<u>Date</u>
<u>Approved By</u>	<u>Date</u>



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Revision History

[illegible]

1. Description

GSD's Industrial TFT-LCD Bezel Frame monitor GS265NM-LN01 is a high performance TFT LCD monitor and providing high image from the analog DVI-D, HDMI, DP.

2. General Features

- 1920 x 1920 pixels resolution
- Low Power consumption
- DVI-D and HDMI, DP
- Light Emitting Diode(LED) Backlight system

3. Specification

● Product Configuration

Boards	☐ AD58EK-12 ☐ AD58EK-24 ☐ Ex-Gen ☐ MMP ☒ VCB1500
BLU Control Boards	Built-in
Enclosure	☐ OPEN Frame ☒ Bezel Frame
UI Control	☒ 7Key ☐ Remote Control
Option	Speaker(3W*2ea), Black Spray

● Display

Size	26.5 inches
Active Display Area	475.776 mm(H) x 475.776 mm(V)
Outline Dimension	494.4 mm(H) x 494.4 mm(V) x 52.0 mm(D)
Number of Pixels	1920 dots(H) x 1920 lines(V)
Pixel Pitch	0.0826 mm(H) x 0.0826 mm(W)
Color Depth	16.2M color(8bits)
Viewing Angle (CR>10)	L/R : 178°(Typ.)
	U/D : 178°(Typ.)
Contrast Ratio	1000 : 1 (Typ.)
Response Time	14 msec (Typ.) / (Raising + Falling)
Average Brightness	300 cd/m ² (Typ.)
Back Light System	LED Backlight
Base Panel	LGD LM265SQ1-SLA1

● Scanning Frequency

Horizontal	31 ~ 90KHz
Vertical	56 ~ 75Hz

● Input Resolution [DVI-D]

Recommended Resolution	1920x1920@60 Hz
Supported Input Resolution	640x480@60/72/75 Hz 800x600@56/60/72/75 Hz 1024x768@60/70/75 Hz 1280x1024@60/75 Hz 1920x1080@60 Hz 1920x1920@60 Hz

● Input Signal

RGB (VGA)	Analog RGB Amplitude : $0.7 \pm 0.05V$ Input Impedance : $75 \pm 2\%$ ohm Sync : H/V Separate (TTL Level)
DVI	Swing Voltage : $400mV \leq V_{\text{sing}} \leq 600mV$ Termination Resistance : $50 \pm 10\%$ ohm Dual signal input
HDMI / DP	480p, 576p, 720p, 1080i, 1080p
Audio	IN

● HDMI Signal Resolution

DTV	SDTV 480p 60Hz SDTV 576p 50Hz HDTV 720p 50/60Hz HDTV 1080i 50/60Hz HDTV 1080p 24/50/60Hz
PC	640x480@60Hz 800x600@60Hz 1024x768@60Hz 1280x1024@60Hz 1920x1080@60Hz

● Input Signal Connector

RGB	D-sub 15PIN
DVI	DVI-I Dual Signal
HDMI	HDMI 19PIN
DP	DP 20PIN
Audio	Audio Ø3.5

● Output Signal Connector

Headphone	Audio Ø3.5
Optical Jack	SPDIF

● Plug & Play

DDC2B (VESA Standard)

● Power Supply Rating

Power Consumption	58.1 Watt (Typ.) @Set
DC Output	24Vdc 5A
AC input	100~240Vac

● User Controls

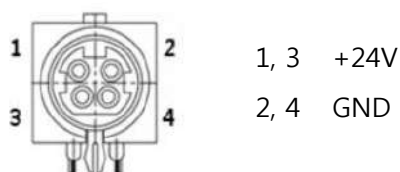
OSD Key Button	7Key
OSD Language	English

4. Environment

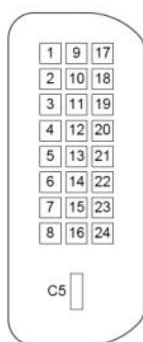
Storage Temperature	-20 ~ 60 °C
Operating Temperature	0 ~ 50 °C
Storage Humidity	10 ~ 85 %RH
Operating Humidity	10 ~ 85 %RH

5. Cable Pin Configuration

- Power Input (DIN Jack, 4Pin)



- DVI Jack (DVI-I Dual Input Connector)



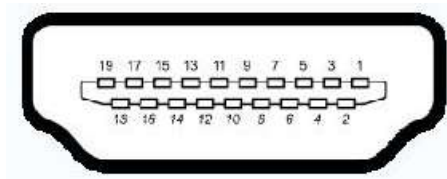
1	TMDS Data 2-	14	+5V
2	TMDS Data 2+	15	Ground (for +5V)
3	TMDS Data 2/4 Shield	16	Hot Plug Detection
4	TMDS Data 4-	17	TMDS Data 0-
5	TMDS Data 4+	18	TMDS Data 0+
6	DDC Serial Clock	19	TMDS Data 0/5 Shield
7	DDC Serial Data	20	TMDS Data 5-
8	No Connect	21	TMDS Data 5+
9	TMDS Data 1-	22	TMDS Clock Shield
10	TMDS Data 1+	23	TMDS Clock +
11	TMDS Data 1/3 Shield	24	TMDS Clock -
12	TMDS Data 3-	C5	Ground
13	TMDS Data 3+		

● Analog RGB Cable (15pin D-SUB Connector)



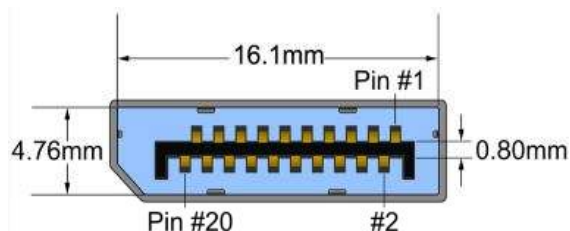
1	Red	9	+5V
2	Green (SOG in)	10	Ground - Sync
3	Blue	11	No Connector
4	Ground	12	DDC Serial Data
5	Ground	13	Horizontal or Composite Sync
6	Ground - Red	14	Vertical Sync
7	Ground - Green	15	DDC Serial Clock
8	Ground - Blue		

● HDMI Input



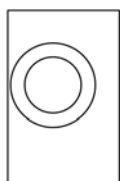
1	HDMI DATA2+	11	HDMI DATA Clock Shield
2	HDMI DATA2 Shield Cover	12	HDMI DATA Clock
3	HDMI DATA2-	13	(NC)
4	HDMI DATA1+	14	(NC)
5	HDMI DATA1 Shield Cover	15	DDC SCL
6	HDMI DATA1-	16	DDC SDA
7	HDMI DATA0+	17	GMD
8	HDMI DATA0 Shield Cover	18	+5V
9	HDMI DATA0	19	HPD
10	HDMI DATA Clock		

● DP Input



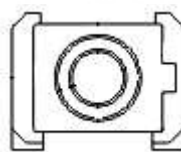
1	DP_RXN3N	11	GND
2	GND	12	DP_RXN1P
3	DP_RXN3P	13	CA DET
4	DP_RXN2N	14	DP DET
5	GND	15	DP_AUXP
6	DP_RXN2P	16	GND
7	DP_RXN1N	17	DP_AUXN
8	GND	18	Hot Plug Detect
9	DP_RXN1P	19	RETURN
10	DP_RXN0N	20	PWR OUT

● Audio Input(Ø3.5)



1	GND
2	L
3	R

● Headphone Output(Ø3.5)

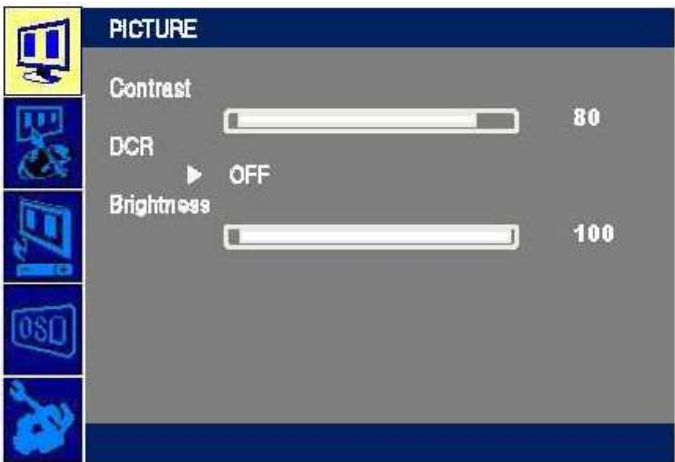
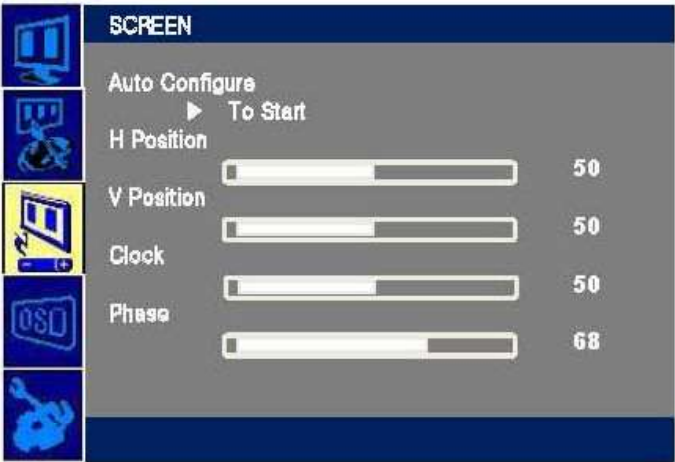


1	GND
2	L
3	R

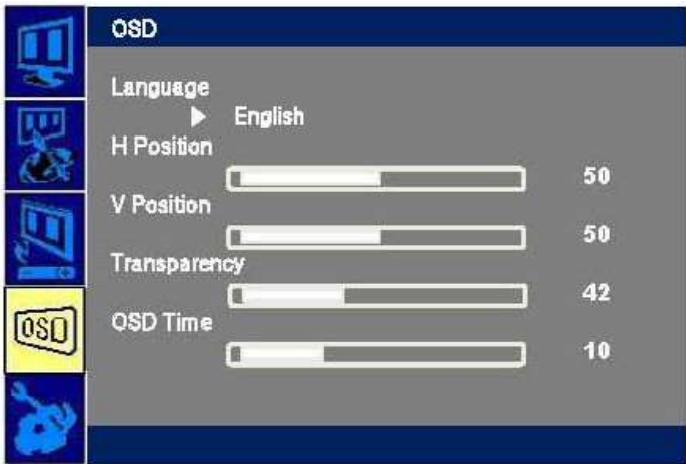
● SPDIF Output

● OSD Function

<ICON>

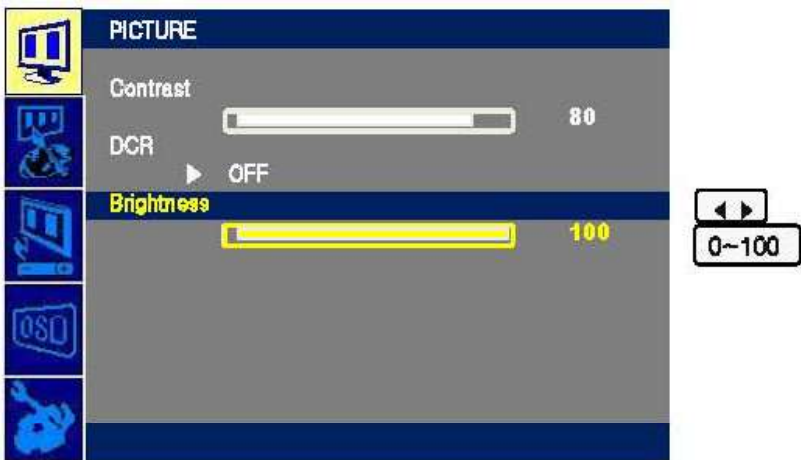
	NEMU
Picture	
Color	
Screen	

● OSD Function

	NEMU
OSD	 The OSD menu is displayed with a dark blue header and a grey background. On the left is a vertical menu bar with icons for OSD, H/V Position, Transparency, OSD Time, and a wrench icon. The main area lists settings: Language (English), H Position (50), V Position (50), Transparency (42), and OSD Time (10). Each setting has a corresponding horizontal slider bar.
Setup	 The SETUP menu is displayed with a dark blue header and a grey background. On the left is a vertical menu bar with icons for Source, Aspect, Factory reset, OSD, and a wrench icon. The main area lists settings: Source (RGB), Aspect (16 : 10), and Factory reset (To Start). At the bottom, the resolution and frequency '2560x1600 60Hz' are shown in green text.

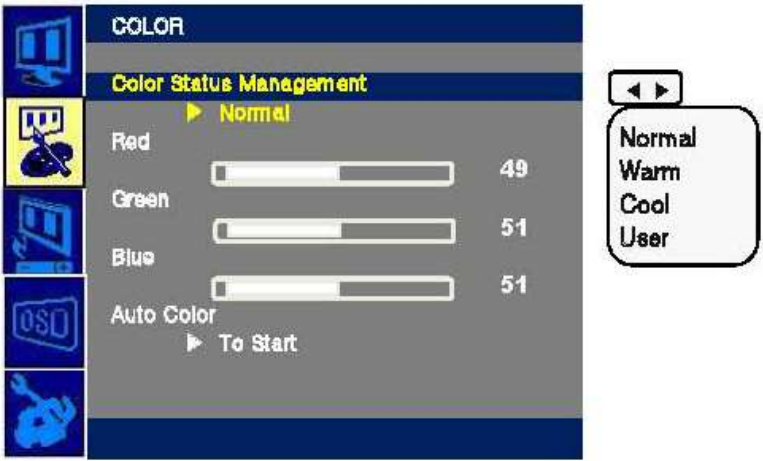
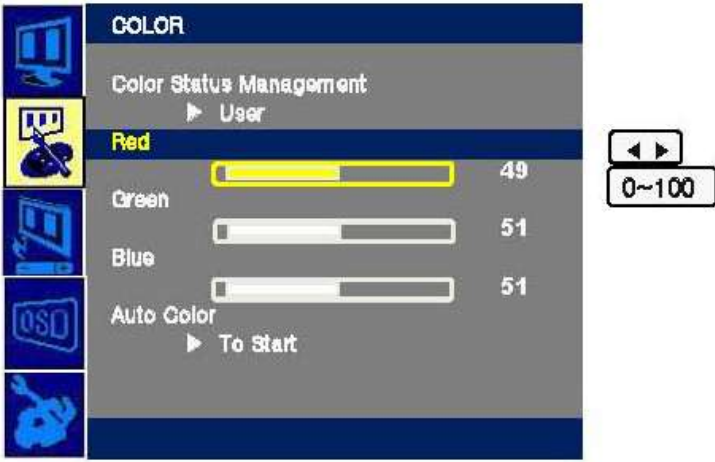
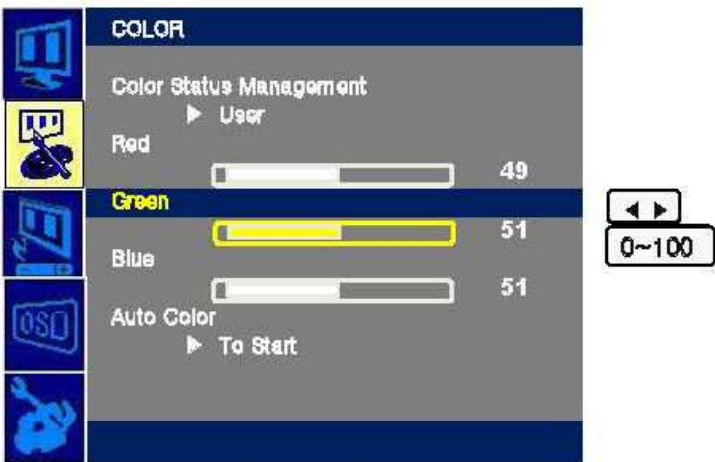
● OSD Function

<Picture>

	NEMU
Contrast	
DCR	
Brightness	

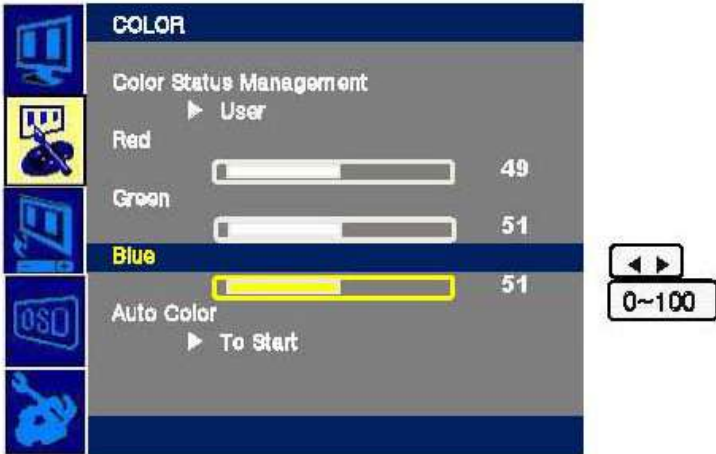
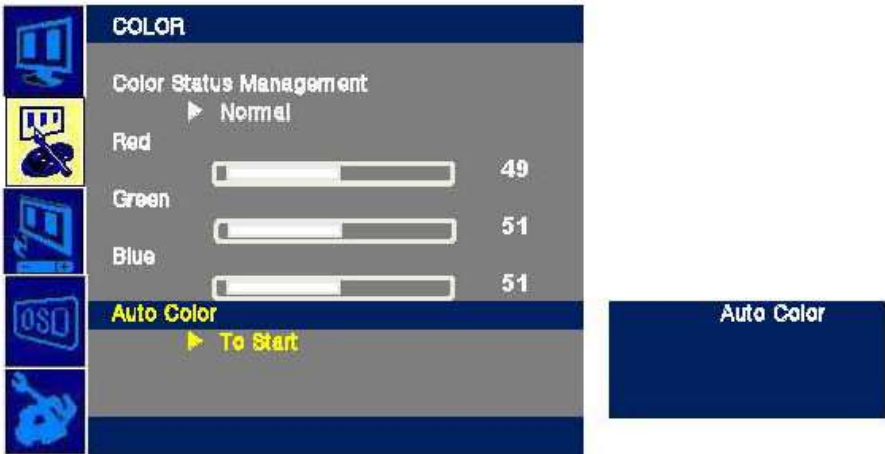
● OSD Function

<Color>

	NEMU
Color Status Management	 The OSD menu for Color Status Management. It shows the 'COLOR' title and 'Color Status Management' as the selected option. The 'Normal' mode is active. The Red channel is set to 49, Green to 51, and Blue to 51. The 'Auto Color' option is set to 'To Start'. A control box on the right shows 'Normal', 'Warm', 'Cool', and 'User' options, with 'Normal' selected.
Red	 The OSD menu for adjusting the Red channel. 'Color Status Management' is selected, and 'User' mode is active. The 'Red' channel is highlighted. The Red channel slider is at 49, Green is at 51, and Blue is at 51. The 'Auto Color' option is set to 'To Start'. A control box on the right shows '0~100' with a slider icon.
Green	 The OSD menu for adjusting the Green channel. 'Color Status Management' is selected, and 'User' mode is active. The 'Green' channel is highlighted. The Red channel is at 49, the Green channel slider is at 51, and Blue is at 51. The 'Auto Color' option is set to 'To Start'. A control box on the right shows '0~100' with a slider icon.

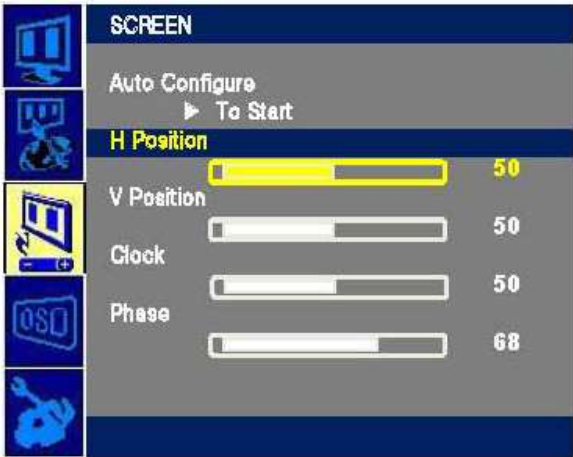
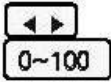
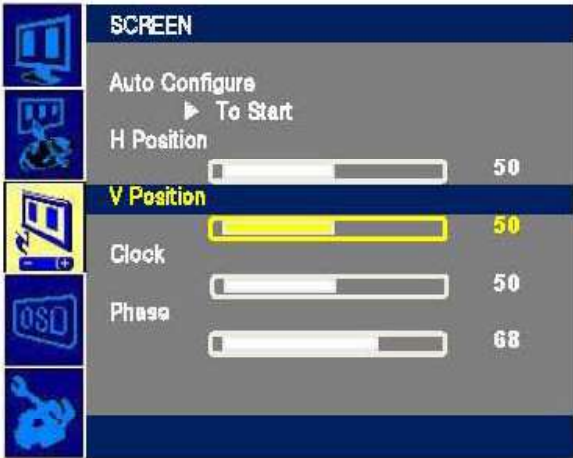
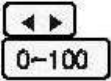
● OSD Function

<Color>

	NEMU
Blue	
Auto Color	

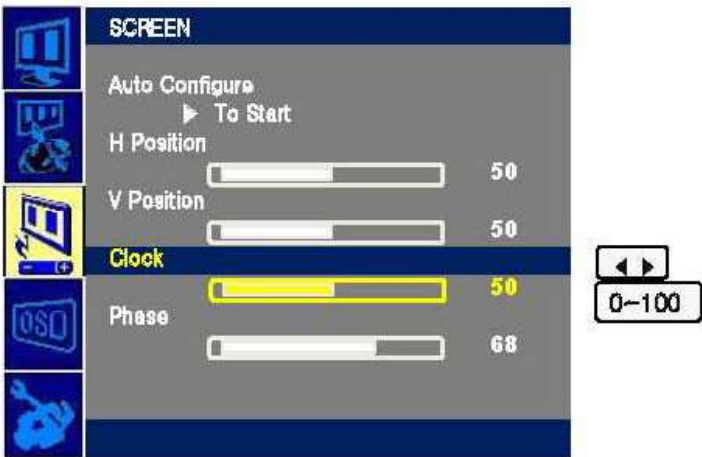
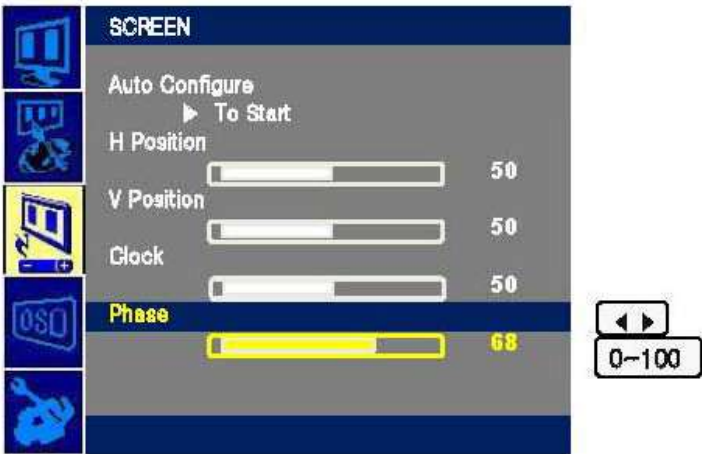
● OSD Function

<Screen>

	NEMU	
Auto Configure	 The screenshot shows the 'SCREEN' menu with 'Auto Configure' selected. A yellow arrow points to 'To Start'. Below are sliders for H Position (50), V Position (50), Clock (50), and Phase (68). A blue box on the right contains the text 'Auto Configure'.	 A blue rectangular button with the text 'Auto Configure' in white.
H Position	 The screenshot shows the 'SCREEN' menu with 'Auto Configure' and 'To Start' selected. 'H Position' is highlighted in yellow. The slider for H Position is at 50. Other sliders for V Position (50), Clock (50), and Phase (68) are visible. To the right, there are navigation arrows and a range indicator '0~100'.	 Navigation arrows (left and right) and a range indicator '0~100' in a box.
V Position	 The screenshot shows the 'SCREEN' menu with 'Auto Configure' and 'To Start' selected. 'V Position' is highlighted in yellow. The slider for V Position is at 50. Other sliders for H Position (50), Clock (50), and Phase (68) are visible. To the right, there are navigation arrows and a range indicator '0~100'.	 Navigation arrows (left and right) and a range indicator '0~100' in a box.

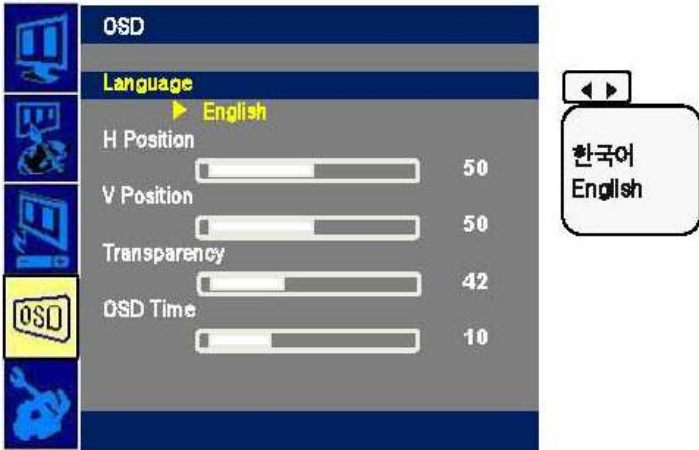
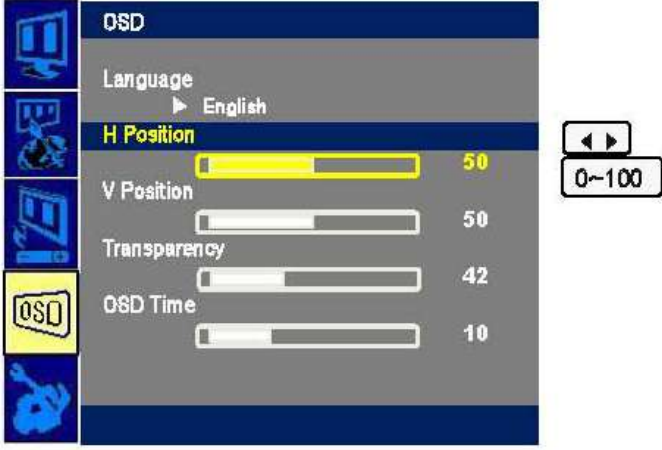
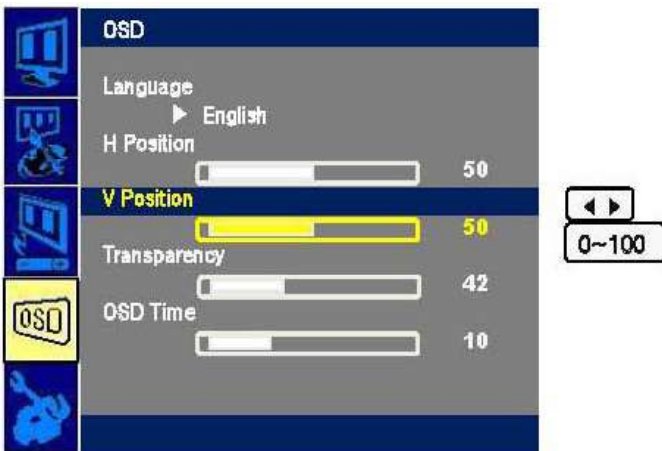
● OSD Function

<Screen>

	NEMU
Clock	 The screenshot shows the 'SCREEN' menu with 'Clock' highlighted. The 'Clock' value is 50. The 'Phase' value is 68. The range '0-100' is indicated on the right.
Phase	 The screenshot shows the 'SCREEN' menu with 'Phase' highlighted. The 'Phase' value is 68. The 'Clock' value is 50. The range '0-100' is indicated on the right.

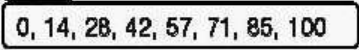
● OSD Function

<OSD>

	NEMU
Language	 The screenshot shows the OSD menu with 'Language' selected. The 'English' option is highlighted. A language selection box on the right shows '한국어' (Korean) and 'English'.
H Position	 The screenshot shows the OSD menu with 'H Position' selected. The 'H Position' slider is highlighted and set to 50. A control box on the right shows '0~100'.
V Position	 The screenshot shows the OSD menu with 'V Position' selected. The 'V Position' slider is highlighted and set to 50. A control box on the right shows '0~100'.

● OSD Function

<OSD>

	NEMU	
Clock		 
Phase		 

● OSD Function

<Setup>

	NEMU
Source	 The screenshot shows the 'SETUP' menu with 'Source' selected. The options are RGB, 16:10, Factory reset, and To Start. The resolution 2560x1600 60Hz is displayed at the bottom. A callout box on the right lists the available sources: RGB, COMPONENT, DVI, HDMI 1, HDMI 2, and DP. A note below the callout says 'Component :option'.
Aspect	 The screenshot shows the 'SETUP' menu with 'Aspect' selected. The options are 16:10, 4:3, and Auto. The resolution 2560x1600 60Hz is displayed at the bottom. A callout box on the right lists the available aspect ratios: 16:10, 4:3, and Auto.
Factory Reset	 The screenshot shows the 'SETUP' menu with 'Factory reset' selected. The option 'To Start' is highlighted. The resolution 2560x1600 60Hz is displayed at the bottom. A callout box on the right shows a blue button labeled 'Factory reset'.

6. Mechanical Specification

The technical drawing illustrates the dimensions of a 19-inch rack-mountable device. It includes three views: a front view, a side view, and a top view.

- Front View:** Shows the device's face with a central cutout for a handle. Dimensions include a total width of 494.4 mm, a central cutout width of 472.78 mm, and a cutout height of 475.78 mm. The cutout is offset by 50 mm from the top and bottom edges and 100 mm from the left and right edges.
- Side View:** Shows the device's profile with a total height of 494.4 mm and a mounting flange height of 22.30 mm.
- Top View:** Shows the device's top surface with a central cutout for a handle. Dimensions include a total width of 494.4 mm, a central cutout width of 472.78 mm, and a cutout height of 475.78 mm. The cutout is offset by 50 mm from the top and bottom edges and 100 mm from the left and right edges.

Appendix : Block Diagram

