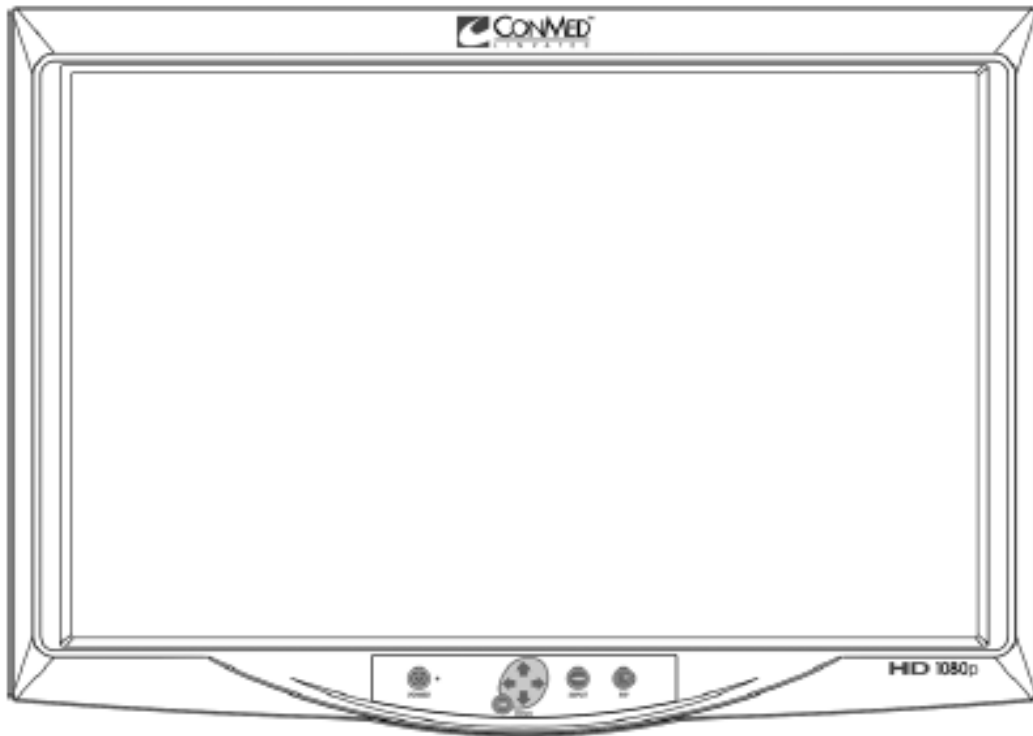


General Specification

VP4726 / VP4726F



RoHS
Compliant

PROPRIETARY NOTE

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APPROVAL		
DRAWN	CHECKED	APPROVED
		
09.01.20	09.01.20	09.01.20

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7.1 Packing	

1. Overview

1.1 Scope

VP4726 / VP4726F product has been specifically designed to use the professional applications. This system has been integrated ADC/TMDS Rx/Video decoder and SDI as well.

Features include high-quality, motion-adaptive deinterlacing up to 1080p with enhanced low-angle processing, improved low-motion detection, advanced 3D noise reduction, and excellent 3D comb filter performance for PAL and NTSC.

1.2 Revision History

Date	Paragraph	Change Description
08.10.13	1.0	Preliminary release.
08.12.08	1.1	OSD graphic changed.
09.01.20	1.2	OSD graphic changed.
09.10.06	1.3	Panel changed.

2. General Features

2.1 General Description

Item		Description
Model		VP4726 / VP4726F
LCD Panel	Description	LM260WU2-SLA2 (LG Display)
	Resolution	1920 x 1200 pixel
Scalar		PW338BC-30L
SDI Processor	Deserializer	GS1559-CBE2 (GENNUM)
	Cable Equalizer	GS1574ACNE3 (GENNUM)
	Cable Driver	GS1578ACNE3 (GENNUM)
	VCO	GO1525-CTAE3 (GENNUM)
Input Signal		1 x DVI 1 x Optical DVI (VP4726F only) 1 x D-SUB 1 x BNC (SDI) 1 x BNC (CVBS) 2 x BNC (SVHS Y/C) 5 x BNC (Component Y/G, Pb/B, Pr/R, H/CS,VS Input)
GPIO port		3 Function – Primary / Secondary screen swap – PIP / PBP1 / PBP2 Select – Record indicator
Output Signal		1 x DVI 1 x BNC (SDI)
Power Supply		AC/DC Adaptor (AC 100~240V, DC 24V 6.25A)
Control Key		Power, Menu, PIP, Up, Down, Plus, Minus, Input
Unit Dimension		618(W) x 412(H) x 99.5(D) (mm), 8Kg - Without stand 24.330(W) x 16.220(H) x 3.917(D) (inch), 17.64 lbs- Without stand

3. Product Specification

3.1 Electrical Specifications

3.1.1 Panel

Item	Description	Unit
Description	LM260WU2-SLA2 (LG Philips)	-
Size	26" Diagonal	Inch
Pixel Pitch	0.2865(W) x 0.2865(H)	mm
Active area	582.0 X 375.6	mm
Surface Treatment	Hard coating(3H), Glare (Low Reflection treatment of the front polarizer)	
Number of Pixels	1920 x 1200	pixel
Pixel Arrangement	RGB Vertical stripe	-
Number of Colors	16,777,216	colors
Contrast Ratio	1000 : 1	Typical
Viewing Angle (CR>10)	View Angle Free (R/L 178, U/D 178)	Typical
Response Time (CR≥ 10)	Rise time (Tr) : 5.5 Fall time (Tf) : 6.5	ms , Typical
Surface Luminance	400	cd/ m2
Display mode	Transmissive mode, normally black	
Panel Dimension	582.0(H) x 375.6(V) x 41.5(D)	mm, Typical
Weight	3270g	g , Typical

3.1.2 Power supply

Item		Specification			
		Min	Typ	Max	Unit
Model No		JMW1150KA2400F09			
Description		AC/DC Adapter			
Input	Rated Voltage	100		240	Vac, Normal
	Voltage Range	90		264	Vac
	Rated Line Frequency	50		60	Hz
	Line Frequency Range	47		63	Hz
	Current	3.00A max at 90Vac input			
	Protection	Dual internal primary current fuse: 250Vac / 5.0A Inrush limiting : 50A PEAK @ 90~264Vac, 50~60Hz			
	Configuration	Inlet type : IEC320-C14,C8			
Output	Voltage /Current	+24Vdc at 6.25A			
	Line regulation	+24Vdc +/-1%			
	Load regulation	+24Vdc +/-5%			
	Ripple and Noise	240mV p-p Max @ 90-264Vac, 50~60Hz : at 20MHz Bandwidth and full load.			
	Transient Response	0.5ms for 50% Load change Typ			
	Hold-up time	20msec min. Over entire input range			
	Protection	Over-current Protection : 8.125A~9.9A Short Circuit Protection Optional Over Voltage Crowbar			
Operating Temperature		0		40	℃
Storage Temperature		-30		85	℃
Humidity		5		95	%
Altitude		0		10,000	feet

3.1.3 Power management

This monitor saves energy by switching your monitor into a low power mode when it has not detected a video signal for approximately 45 seconds.

State	Normal Operation	DPMS Standby	DPMS suspend	POWER Off
Horizontal Sync	Active	Inactive	Active	Inactive
Vertical Sync	Active	Active	Inactive	Inactive
Video	Active	Blanked	Blanked	Blanked
Power Indicator	Green	Green Flashing (5 sec. Interval)	Green Flashing (5 sec. Interval)	Off
Power Consumption	Under 130W	Less than 20W	Less than 20W	Less then 20W

NOTE : This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when a video signal is detected.

3.1.4 Input Signal

Input Signal		Type	Description
VGA	Video	Type	Analog RGB
		Connector	DSUB-15
		Level	0.7Vp-p ±5%
		Polarity	Positive
		Impedance	75 ohm ±5%
		Horizontal frequency	30 ~ 93KHz
		Vertical frequency	50 ~ 85Hz
		Applicable maximum pixel frequency	170MHz
		Maximum resolution	1920x1200 / 60Hz (154MHz Timing, NON-CRT)
	Sync	Type	Separate H/V sync, Composite H/V sync, Sync On Green Automatic synchronization without external switch
		Level	TTL Level (V high ≥2.0V, V low ≤0.8V)
		Polarity	Positive or Negative
		Range	Automatic synchronization for applicable resolution modes which follows industrial standard within frequency range of 30 to 93KHz in horizontal and 50 to 85Hz in vertical
		Terminal resistance	more than 2KΩ
DVI		Type	Digital RGB
		Signal Format	TMDS single link
		Connector	DVI-D
Optical DVI		Type	Digital RGB
		Signal Format	Fiber Optic Transmission
CVBS		Type	C-Video
		Color system	NTSC, PAL
		Signal Format	Composite Video Signal
SVHS Y/C		Type	S-Video
		Color system	NTSC, PAL
		Signal Format	Y/C Separated Video Signal
SDI		SMPTE-274M	1080i (60 / 59.94 / 50)
			1080p (30 / 29.97 / 25 / 24 / 24sF / 23.98 / 23.98sF)
		SMPTE-296M	720p (60 / 59.94 / 50)
		SMPTE-260M	1035i (60 / 59.94)
		SMPTE-125M	480i (59.94)
		ITU-R BT.656	576i (50)

3.1.5 Output Signal

Output Signal	Type	Description
DVI	Type	Digital RGB
	Signal Format	TMDS single link
	Connector	DVI-D
SDI	SMPTE-274M	1080i (60 / 59.94 / 50)
		1080p (30 / 29.97 / 25 / 24 / 24sF / 23.98 / 23.98sF)
	SMPTE-296M	720p (60 / 59.94 / 50)
	SMPTE-260M	1035i (60 / 59.94)
	SMPTE-125M	480i (59.94)
	ITU-R BT.656	576i (50)

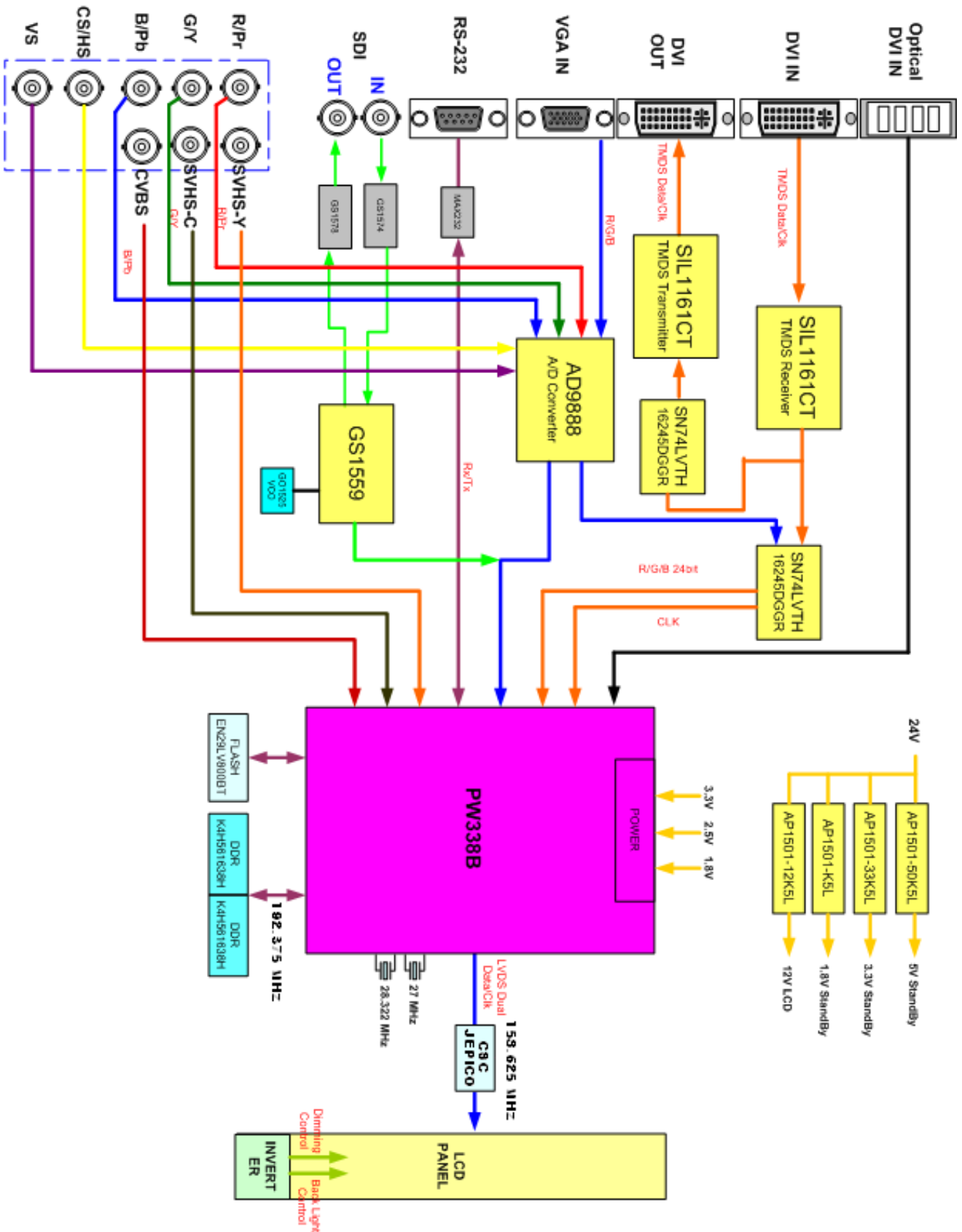
3.1.6 Input Signal Timing

Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Pixel clock (MHz)
640 x 350 @60Hz	31.469	59.941	25.175
640 x 350 @70Hz	31.469	70.087	25.175
640 x 350 @85Hz	37.86	85.080	31.500
640 x 400 @60Hz	31.469	59.941	25.175
640 x 400 @70Hz	31.469	70.087	25.175
640 x 400 @85Hz	37.86	85.080	31.500
640 x 480 @60Hz	31.469	59.940	25.175
640 x 480 @72Hz	37.861	72.809	31.500
640 x 480 @75Hz	37.500	75.000	31.500
640 x 480 @85Hz	43.269	85.008	36.000
720 x 400 @85Hz	37.927	85.038	35.500
800 x 600 @56Hz	35.156	56.250	36.000
800 x 600 @60Hz	37.879	60.317	40.000
800 x 600 @72Hz	48.077	72.188	50.000
800 x 600 @75Hz	46.875	75.000	49.500
800 x 600 @85Hz	53.674	85.061	56.250
1024 x 768 @43Hz	35.522	86.958	44.900

Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Pixel clock (MHz)
1024 x 768 @60Hz	48.363	60.004	65.000
1024 x 768 @70Hz	56.476	70.069	75.000
1024 x 768 @75Hz	60.023	75.029	78.750
1024 x 768 @85Hz	68.677	84.997	94.500
1152 x 864 @60Hz	54.348	60.053	80.000
1152 x 864 @70Hz	63.955	70.016	94.200
1152 x 864 @75Hz	67.500	75.000	108.000
1280 x 960 @60Hz	60.000	60.000	108.000
1280 x 960 @85Hz	85.938	85.002	148.500
1280 x 1024 @60Hz	63.974	60.013	108.500
1280 x 1024 @75Hz	79.976	75.025	135.000
1280 x 1024 @85Hz	91.146	85.024	157.500
1600 x 1200 @60Hz (**)	74.077	59.981	130.375
1600 x 1200 @60Hz	75.000	60.000	162.000
1920 x 1080 @60Hz	67.500	60.000	148.500
1920 x 1200 @60Hz	74.099	59.999	154.125

(**) Preferred Timing for 1600 x 1200 @60Hz input

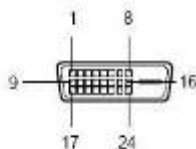
3.2 Entire System Block Diagram



3.3 Signal connector PIN assignments

● DVI-In,Out (24Pin DVI-D)

Pin No.	Assignment	Pin No.	Assignment
1	T.M.D.S. Data2-	13	No Connection
2	T.M.D.S. Data2+	14	+5V Power
3	T.M.D.S. Data2 Shield	15	Ground
4	No Connection	16	Hot Plug Detect
5	No Connection	17	T.M.D.S. Data0-
6	DDC Clock	18	T.M.D.S. Data0+
7	DDC Data	19	T.M.D.S. Data0 Shield
8	No Connection	20	No Connection
9	T.M.D.S. Data1-	21	No Connection
10	T.M.D.S. Data1+	22	T.M.D.S. Clock Shield
11	T.M.D.S. Data1 Shield	23	T.M.D.S. Clock+
12	No Connection	24	T.M.D.S. Clock-



● OPTICAL (VP4726F only)

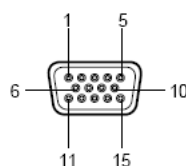
Pin No.	Assignment
1	OPTICAL Clock
2	OPTICAL Blue
3	OPTICAL Green
4	OPTICAL Red

1 2 3 4



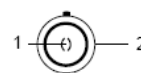
● VGA (15Pin D-Sub)

Pin No.	Assignment	Pin No.	Assignment
1	Red	9	No Connection
2	Green	10	Ground-Sync
3	Blue	11	Ground
4	Ground	12	DDC Data
5	DDC 5V Standby	13	H.Sync
6	Cable Connection check	14	V.Sync
7	Ground-Red	15	DDC Clock
8	Ground-Green		
	Ground-Blue		



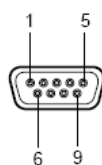
● C-Video (BNC)

Pin No.	Assignment
1	Composite
2	Ground



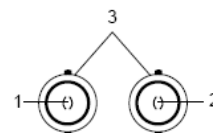
● RS232C (D-SUB 9Pin)

Pin No.	Assignment
1	No Connection
2	TXD
3	RXD
4	No Connection
5	Ground
6	No Connection
7	No Connection
8	No Connection
9	No Connection



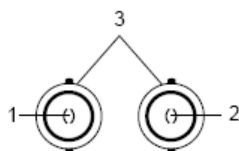
● S-Video (BNC)

Pin No.	Assignment
1	S-VIDEO/Y (Luma)
2	S-VIDEO/C (Chroma)
3	Ground



● SDI (BNC)

Pin No.	Assignment
1	SDI IN
2	SDI OUT
3	Ground



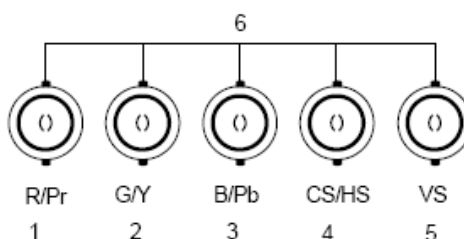
● GPIO

Pin No.	Assignment
1	P/S Swap
2	PI/P,BP/PB2 Select
3	Record Indicator
4	Gnd



● RGBHV/RGBS/YPbPr (BNC)

Pin No.	Assignment	
	RGBS	Y Pb Pr
1	Red	Pr
2	Green	Y
3	Blue	Pb
4	H-Sync / C-Sync	No Connection
5	V-Sync	No Connection
6	Ground	

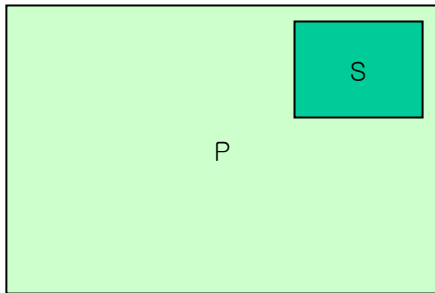


3.4 GPIO specification

1

P,S Swap

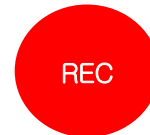
Pressing the swap button.
Swaps the primary and
secondary images.



3

Record Indicator

The record indicator is displayed while
a contact closure to the ground pin
is present, the indicator is removed
when the contacts are opened.
The record indicator is displayed in the
monitor's top left corner.



2

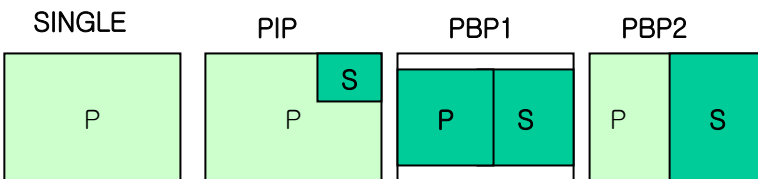
PIP,PBP1,PBP2 Select

The selection of secondary Image
position button is pressed.

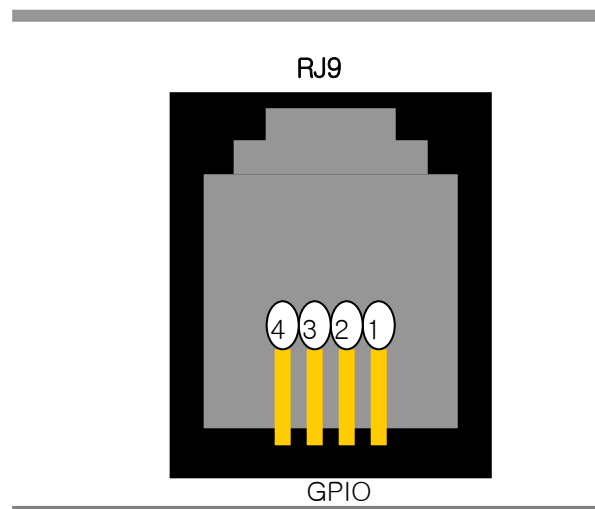
4

GND

Common ground



* GPIO mating connector : RJH 4pin
(telephone handset connector)



3.5 Environmental specification

Item		Description
Operating Conditions	Temperature	0℃ ~ 40℃
	Humidity	5% ~ 85%, non-condensing
Transportation Conditions	Temperature	-20℃ ~ 60℃
	Humidity	5% ~ 95%, non-condensing
Storage Conditions	Temperature	-20℃ ~ 60℃
	Humidity	10% ~ 85%, non-condensing

3.6 Reliability specification

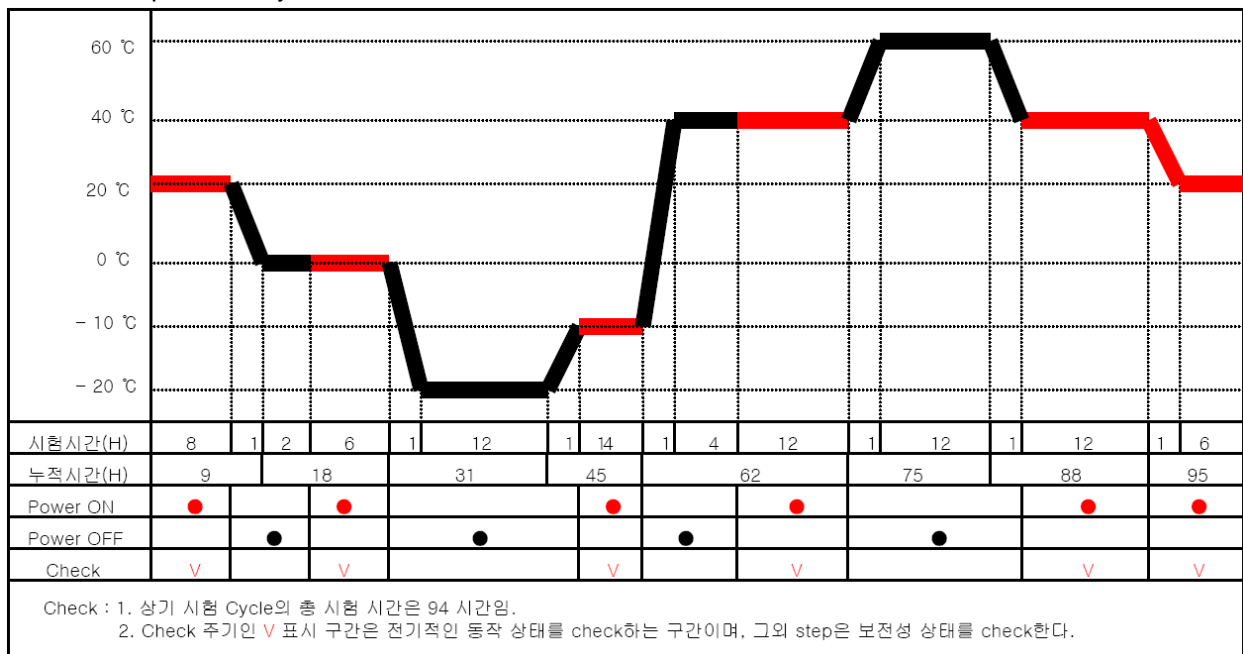
MTBF : more than 30,000 hours at 90% confidence level, excluding LCD panel.

Reliability items :

3.6.1 Stress / Time acceleration Test

Condition		Test Results
Temp (℃)	Time (hr)	
40 ± 2	72	No Damage

3.6.2 Temperature Cycle Test



Condition		Test Results
Temp (℃)	Time (hr)	
-20~40 ± 2	95	No Damage

4. Regulatory

4.1 EMC & Safety Agency Approvals

UL Safety Compliance:

This LCD monitor is investigated to UL60601-1, 1st Edition, 2006-04-26 (Medical Electrical Equipment, Part 1:General Requirements for Safety)CAN/CSA-C22.2 No. 601.1-M90, 2005 (Medical Electrical Equipment - Part 1:General Requirements for Safety)



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CE-LVD Compliance:

This LCD monitor is investigated to EN 60601-1: 1990 + A1:1993 + A2:1995+ A13:1996 : IEC60601-1:1988 + A1:1991 + A2:1995 + corrigendum 1995,mod.



CB Compliance:

This LCD monitor is investigated to EN 60601-1: 1990 + A1:1993 + A2:1995



CE-EMC Compliance:

This LCD monitor is investigated to EN 60601-1-2: 2001 + EN2001-1-2+ A1: 2006(IEC60601-1-2:2001 + A1:2004)



FCC Compliance:

This LCD monitor is investigated to FCC Part 15

5. OSD specification

VP4726 / VP4726F gives various and very easy graphic user interface. User can easily access function. 8 button keypad, located on the front of monitor, allows the user to make adjustments to various display parameters using on screen menus easily.

Be sure that your system power and LED is turned on before operating key board.

5.1 OSD User functions/ Messages

5.1.1 OSD indicator



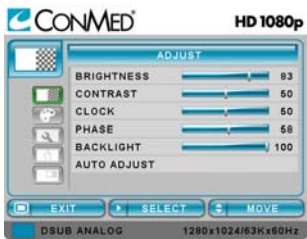
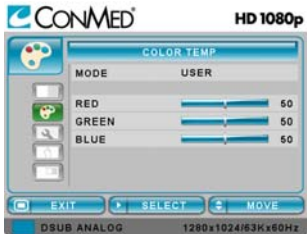
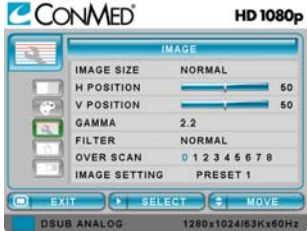


Key Name	Description
Power	Soft power Turns ON/OFF the monitor.
Menu	- With OSD deactivated, Activated to OSD menu. - With OSD activated, Exit from main menu or sub menu.
PIP	Enable PIP (Picture in Picture) function. - Select PIP,PBP1,PBP2
UP (▲)	- With OSD deactivated, Hot key of the brightness control and increases the brightness. - With OSD activated, move the OSD cursor upward.
Down (▼)	- With OSD deactivated, Hot key of the brightness control and decreases the brightness. - With OSD activated, move the OSD cursor downward.
Plus (+)	- With OSD deactivated, Hot key of the contrast control and increases the contrast. - With OSD activated, enter sub menu and increases the adjustment of the selected function.
Minus (-)	- With OSD deactivated, Hot key of the contrast control and decreases the contrast. - With OSD activated, decreases the adjustment of the selected function.
Input	Change the display signal source. -Select DVI OPTICAL(VP4726F) / DVI DIGITAL / DSUB ANALOG / SDI / YPbPr / RGBS / SVIDEO / CVIDEO -With OSD deactivated, Hot key of the auto adjustment control when it pressed over 1 second at DSUB ANALOG source.

5.1.2 INPUT source select








5.2 OSD representation






5.2.1 DSUB ANALOG / RGBS input source

Menus	Sub-menus	Function Descriptions
ADJUST 	BRIGHTNESS	Increase or decrease the brightness (Range : 0~100)
	CONTRAST	Increase or decrease the contrast (Range : 0~100)
	SATURATION	Changes the tone of color (Range : 0~100)
	COLOR	Changes the richness of color (Range : 50~0~50)
	CLOCK	Increase or decrease the sampling frequency (Range : 0~100)
	PHASE	Increase or decrease the Phase level (Range : 0~100)
	BACKLIGHT	Adjust backlight dimming level (Range : 0~100)
	AUTO ADJUST	Fit to the most appropriate screen on the D-SUB Analog signal
COLOR TEMP 	MODE	Change the color temperature mode (6500K, 5600K, USER)
	RED	Red balance (Only works with USER mode) (Range : 0~100)
	GREEN	Green balance (Only works with USER mode) (Range : 0~100)
	BLUE	Blue balance (Only works with USER mode) (Range : 0~100)
IMAGE 	IMAGE SIZE	Change the image size (Full, Fill aspect, 1:1, Normal)
	H POSITION	Adjust the horizontal position of the displayed source image. (Range : 0~100)
	V POSITION	Adjust the vertical position of the displayed source image. (Range : 0~100)
	GAMMA	Adjust GAMMA value (VIDEO,BYPASS,1.8,2.0,2.2,2.4,2.6,PACS)
	FILTER	Set the sharpness of image (Softest, Soft, Normal, Sharp, Sharpest)
	OVER SCAN	Adjust the displayed size.(0~8)
	IMAGE SETTING	Change the image setting. (Preset 1,2 / User 1,2,3)
	ZOOM / PAN	Enlarge the image, move image left and right
	FREEZE FRAME	Keep still the image
SETUP 	LANGUAGE	Change the OSD language (8 language)
	OSD POSITION	Change the OSD position (9 positions)
	DURATION	Adjust time until the OSD Menu will disappear after adjusting the menu. (5, 10, 20, 30, 60, 90, 120, 180, 240 seconds)
	RESET SETTINGS	Changes the all OSD value to factory outgoing status.
	AUTO SOURCE SELECT	Disable or enable auto source select. (ON: Searches through all possible input source until an active video source is found. OFF: Video input is manually selected.)
	USER NAME ENTRY	Change the name of a Preset to the Users Name, etc
PIP 	LAYOUT	Change the layout. (Single, PIP, PBP1, PBP2)
	SOURCE	Change the secondary input source.
	SIZE	Change the PIP size. (Small, Large)
	POSITION	Change the PIP position.
	SWAP	Swaps the position of the Primary and Secondary images.






5.2.2 DVI OPTICAL / DVI DIGITAL input source

Menus	Sub-menus	Function Descriptions
ADJUST 	BRIGHTNESS	Increase or decrease the brightness (Range : 0~100)
	CONTRAST	Increase or decrease the contrast (Range : 0~100)
	SATURATION	Changes the tone of color (Range : 0~100)
	COLOR	Changes the richness of color (Range : Green 0~50, Red 0~50)
	BACKLIGHT	Adjust backlight dimming level (Range : 0~100)
COLOR TEMP 	MODE	Change the color temperature mode (6500K, 5600K, USER)
	RED	Red balance (Only works with USER mode) (Range : 0~100)
	GREEN	Green balance (Only works with USER mode) (Range : 0~100)
	BLUE	Blue balance (Only works with USER mode) (Range : 0~100)
IMAGE 	IMAGE SIZE	Change the image size (Full, Fill aspect, 1:1, Normal)
	GAMMA	Adjust GAMMA value (VIDEO,BYPASS,1.8,2.0,2.2,2.4,2.6,PACS)
	FILTER	Set the sharpness of image (Softest, Soft, Normal, Sharp, Sharpest)
	OVER SCAN	Adjust the displayed size.(0~8)
	IMAGE SETTING	Change the image setting. (Preset 1,2 / User 1,2,3)
	ZOOM / PAN	Enlarge the image, move image left and right
	FREEZE FRAME	Keep still the image
SETUP 	LANGUAGE	Change the OSD language (8 language)
	OSD POSITION	Change the OSD position (9 positions)
	DURATION	Adjust time until the OSD Menu will disappear after adjusting the menu. (5, 10, 20, 30, 60, 90, 120, 180, 240 seconds)
	RESET SETTINGS	Changes the all OSD value to factory outgoing status.
	AUTO SOURCE SELECT	Disable or enable auto source select. (ON: Searches through all possible input source until an active video source is found. OFF: Video input is manually selected.)
	USER NAME ENTRY	Change the name of a Preset to the Users Name, etc
PIP 	LAYOUT	Change the layout. (Single, PIP, PBP1, PBP2)
	SOURCE	Change the secondary input source.
	SIZE	Change the PIP size. (Small, Large)
	POSITION	Change the PIP position.
	SWAP	Swaps the position of the Primary and Secondary images.






5.2.3 YPbPr input source

Menus	Sub-menus	Function Descriptions
ADJUST 	BRIGHTNESS	Increase or decrease the brightness (Range : 0~100)
	CONTRAST	Increase or decrease the contrast (Range : 0~100)
	SHARPNESS	Adjusts the sharpness of video image (Range : 0~100)
	SATURATION	Changes the tone of color (Range : 0~100)
	COLOR	Changes the richness of color (Range : Green 0~50, Red 0~50)
	BACKLIGHT	Adjust backlight dimming level (Range : 0~100)
	CLOCK	Increase or decrease the sampling frequency (Range : 0~100)
	PHASE	Increase or decrease the Phase level (Range : 0~100)
COLOR TEMP 	MODE	Change the color temperature mode (6500K, 5600K, USER)
	RED	Red balance (Only works with USER mode) (Range : 0~100)
	GREEN	Green balance (Only works with USER mode) (Range : 0~100)
	BLUE	Blue balance (Only works with USER mode) (Range : 0~100)
IMAGE 	IMAGE SIZE	Change the image size (Full, Fill aspect, 1:1, Normal, Anamorphic)
	H POSITION	Adjust the horizontal position of the displayed source image. (Range : 0~100)
	V POSITION	Adjust the vertical position of the displayed source image. (Range : 0~100)
	GAMMA	Adjust GAMMA value (VIDEO,BYPASS,1.8,2.0,2.2,2.4,2.6,PACS,
	FILTER	Set the sharpness of image (Softest, Soft, Normal, Sharp, Sharpest)
	OVER SCAN	Adjust the displayed size.(0~8)
	IMAGE SETTING	Change the image setting. (Preset 1,2 / User 1,2,3)
	ZOOM / PAN	Enlarge the image, move image left and right
	FREEZE FRAME	Keep still the image
SETUP 	LANGUAGE	Change the OSD language (8 language)
	OSD POSITION	Change the OSD position (9 positions)
	DURATION	Adjust time until the OSD Menu will disappear after adjusting the menu. (5, 10, 20, 30, 60, 90, 120, 180, 240 seconds)
	RESET SETTINGS	Changes the all OSD value to factory outgoing status.
	AUTO SOURCE SELECT	Disable of enable auto source select. (ON: Searches through all possible input source until an active video source is found. OFF: Video input is manually selected.)
	USER NAME ENTRY	Change the name of a Preset to the Users Name, etc
PIP 	LAYOUT	Change the layout. (Single, PIP, PBP1, PBP2)
	SOURCE	Change the secondary input source.
	SIZE	Change the PIP size. (Small, Large)
	POSITION	Change the PIP position.
	SWAP	Swaps the position of the Primary and Secondary images.

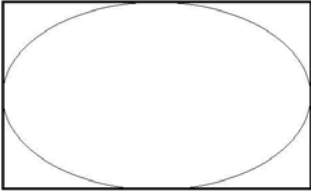
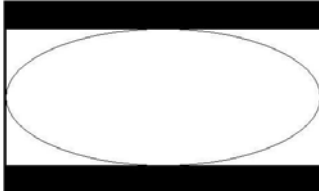
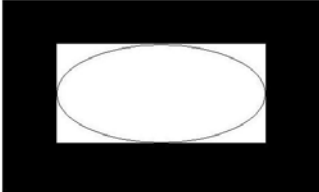
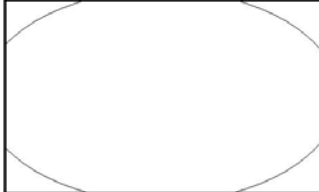
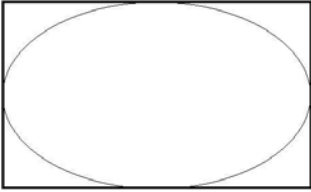
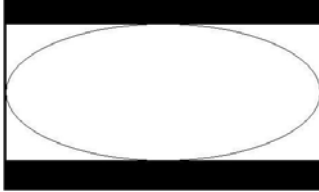
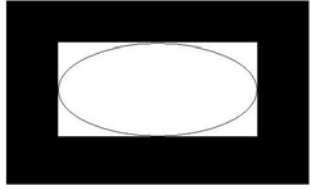
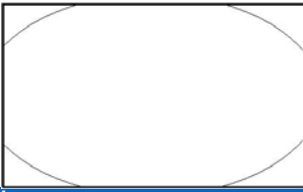
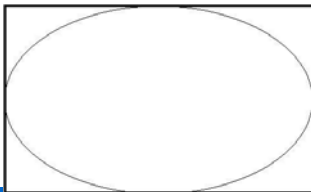
5.2.4 SVIDEO / CVIDEO input source

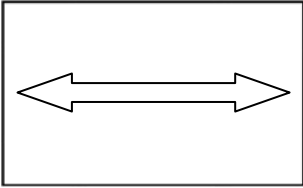
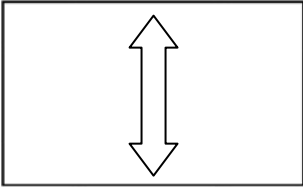
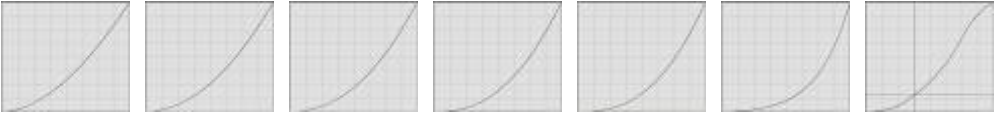
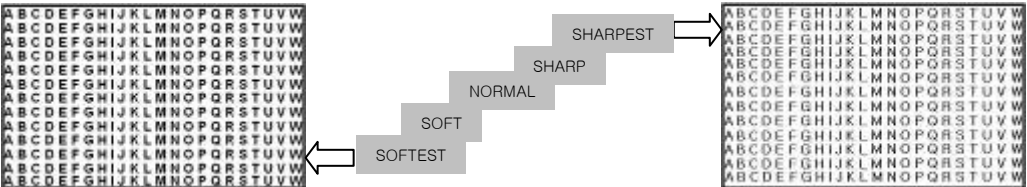

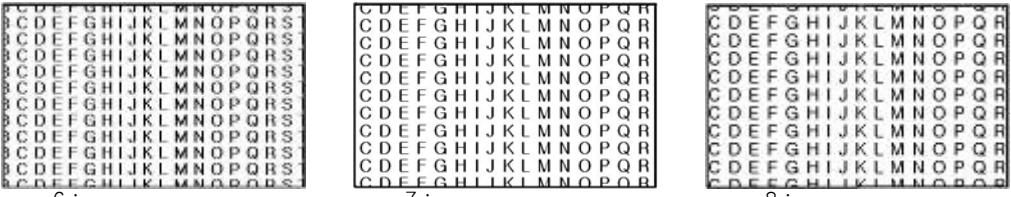

Menus	Sub-menus	Function Descriptions
ADJUST 	BRIGHTNESS	Increase or decrease the brightness (Range : 0~100)
	CONTRAST	Increase or decrease the contrast (Range : 0~100)
	SHARPNESS	Adjusts the sharpness of video image (Range : 0~100)
	SATURATION	Changes the tone of color (Range : 0~100)
	COLOR	Changes the richness of color (Range : Green 0~50, Red 0~50)
	BACKLIGHT	Adjust backlight dimming level (Range : 0~100)
COLOR TEMP 	MODE	Change the color temperature mode (6500K, 5600K, USER)
	RED	Red balance (Only works with USER mode) (Range : 0~100)
	GREEN	Green balance (Only works with USER mode) (Range : 0~100)
	BLUE	Blue balance (Only works with USER mode) (Range : 0~100)
IMAGE 	IMAGE SIZE	Change the image size (Full, Fill aspect, 1:1, Normal, Anamorphic)
	H POSITION	Adjust the horizontal position of the displayed source image. (Range : 0~100)
	V POSITION	Adjust the vertical position of the displayed source image. (Range : 0~100)
	GAMMA	Adjust GAMMA value (VIDEO,BYPASS,1.8,2.0,2.2,2.4,2.6,PACS)
	FILTER	Set the sharpness of image (Softest, Soft, Normal, Sharp, Sharpest)
	OVER SCAN	Adjust the displayed size.(0~8)
	IMAGE SETTING	Change the image setting. (Preset 1,2 / User 1,2,3)
	ZOOM / PAN	Enlarge the image, move image left and right
	FREEZE FRAME	Keep still the image
SETUP 	LANGUAGE	Change the OSD language (8 language)
	OSD POSITION	Change the OSD position (9 positions)
	DURATION	Adjust time until the OSD Menu will disappear after adjusting the menu. (5, 10, 20, 30, 60, 90, 120, 180, 240 seconds)
	RESET SETTINGS	Changes the all OSD value to factory outgoing status.
	AUTO SOURCE SELECT	Disable of enable auto source select. (ON: Searches through all possible input source until an active video source is found. OFF: Video input is manually selected.)
	USER NAME ENTRY	Change the name of a Preset to the Users Name, etc
PIP 	LAYOUT	Change the layout. (Single, PIP, PBP1, PBP2)
	SOURCE	Change the secondary input source.
	SIZE	Change the PIP size. (Small, Large)
	POSITION	Change the PIP position.
	SWAP	Swaps the position of the Primary and Secondary images.

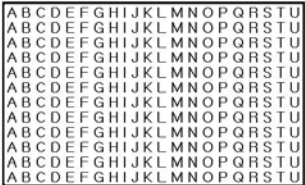

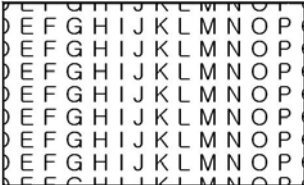
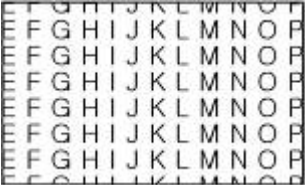
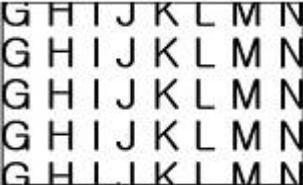
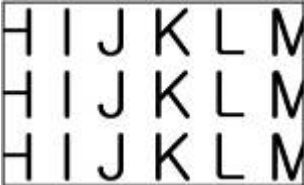
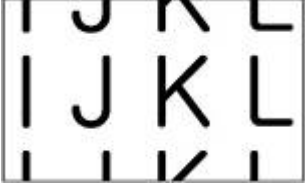

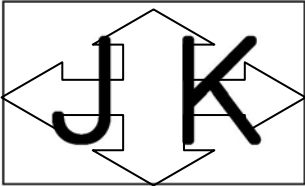

5.2.5 SDI input source

Menus	Sub-menus	Function Descriptions
ADJUST 	BRIGHTNESS	Increase or decrease the brightness (Range : 0~100)
	CONTRAST	Increase or decrease the contrast (Range : 0~100)
	SATURATION	Changes the tone of color (Range : 0~100)
	COLOR	Changes the richness of color (Range : Green 0~50, Red 0~50)
	BACKLIGHT	Adjust backlight dimming level (Range : 0~100)
COLOR TEMP 	MODE	Change the color temperature mode (6500K, 5600K, USER)
	RED	Red balance (Only works with USER mode) (Range : 0~100)
	GREEN	Green balance (Only works with USER mode) (Range : 0~100)
	BLUE	Blue balance (Only works with USER mode) (Range : 0~100)
IMAGE 	IMAGE SIZE	Change the image size (Full, Fill aspect, 1:1, Normal, Anamorphic)
	GAMMA	Adjust GAMMA value (VIDEO,BYPASS,1.8,2.0,2.2,2.4,2.6,PACS)
	FILTER	Set the sharpness of image (Softest, Soft, Normal, Sharp, Sharpest)
	OVER SCAN	Adjust the displayed size.(0~8)
	IMAGE SETTING	Change the image setting. (Preset 1,2 / User 1,2,3)
	ZOOM / PAN	Enlarge the image, move image left and right
	FREEZE FRAME	Keep still the image
SETUP 	LANGUAGE	Change the OSD language (8 language)
	OSD POSITION	Change the OSD position (9 positions)
	DURATION	Adjust time until the OSD Menu will disappear after adjusting the menu. (5, 10, 20, 30, 60, 90, 120, 180, 240 seconds)
	RESET SETTINGS	Changes the all OSD value to factory outgoing status.
	AUTO SOURCE SELECT	Disable of enable auto source select. (ON: Searches through all possible input source until an active video source is found. OFF: Video input is manually selected.)
	USER NAME ENTRY	Change the name of a Preset to the Users Name, etc
PIP 	LAYOUT	Change the layout. (Single, PIP, PBP1, PBP2)
	SOURCE	Change the secondary input source.
	SIZE	Change the PIP size. (Small, Large)
	POSITION	Change the PIP position.
	SWAP	Swaps the position of the Primary and Secondary images.

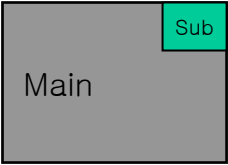

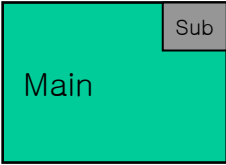
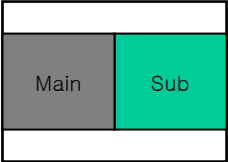

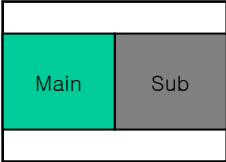
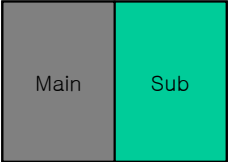

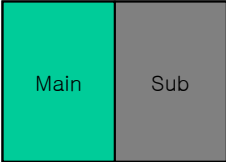
5.3 OSD overview

Menus	Function Descriptions
BRIGHTNESS	Press the BRIGHTNESS button to display the ADJUST menu or UP,DOWN hot key. Setting the brightness too high or too low will decrease the amount of visible grayscales.
CONTRAST	Press the CONTRAST button to display the ADJUST menu or +,- hot key. Setting the Contrast too high or too low will cause loss of some grayscales.
CLOCK	Do not adjust freely. It will adjust fine state automatically after auto adjustment. When frequency value is wrong, the horizontal image have a wrong size or noise.
PHASE	Do not adjust freely. It will adjust fine state automatically after auto adjustment. When phase value is wrong, the image have a noise.
BACKLIGHT	Adjust backlight dimming level. Setting the backlight too low will cause dark image and too high will decrease the backlight lifetime.
AUTO ADJUST	Fit to the most appropriate screen on the D-SUB Analog signal
SHARPNESS	Adjusts the sharpness of video image
SATURATION	Changes the tone of color
COLOR	Changes the richness of color (Range : Greenish 0~50, Reddish 0~50)
COLOR TEMP 6500K	Default 6500K color setting
COLOR TEMP 5600K	Default 5600K color setting
COLOR TEMP USER	Default 6500K color setting. When USER is selected, Red, Green and Blue values are changeable by the user
IMAGE SIZE	<p>*DSUB / DVI OPTICAL / DVI DIGITAL input source</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>FULL</p>  <p>1:1</p> </div> <div style="text-align: center;"> <p>FILL ASPECT</p>  </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>NORMAL</p>  </div> </div> <p>*YPbPr / RGBS / SDI / CVIDEO / SVIDEO input source</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>FULL</p>  </div> <div style="text-align: center;"> <p>FILL ASPECT</p>  </div> <div style="text-align: center;"> <p>1:1</p>  </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>NORMAL</p>  </div> <div style="text-align: center;"> <p>ANAMORPHIC</p>  </div> </div> <p>CAUTION : FILL ASPECT,NORMAL Size are depends on input size ratio</p> <p>CAUTION : FILL ASPECT,NORMAL, ANAMORPHIC Size are depends on input size ratio</p>

Menus	Function Descriptions
H POSITION	<p>Adjusts the horizontal position of the image. It will return to the default state when executing AUTO ADJUST or RESET SETTINGS</p> 
V POSITION	<p>Adjusts the vertical position of the image. It will return to the default state when executing AUTO ADJUST or RESET SETTINGS</p> 
GAMMA	<p>Adjusts the gamma curve of video image.</p> <p>1.8 2.0 2.2 2.4 2.6 PACS VIDEO</p>  <p>< NOTICE > BYPASS is depend on panel gamma value, please refer to the panel specification</p>
FILTER	<p>Adjusts the sharpness of video image.</p> 
OVER SCAN	<p>Enable 10% over scan of original input image</p> <p>0 : 1 : 2 :</p>  <p>3 : 4 : 5 :</p>  <p>6 : 7 : 8 :</p> 

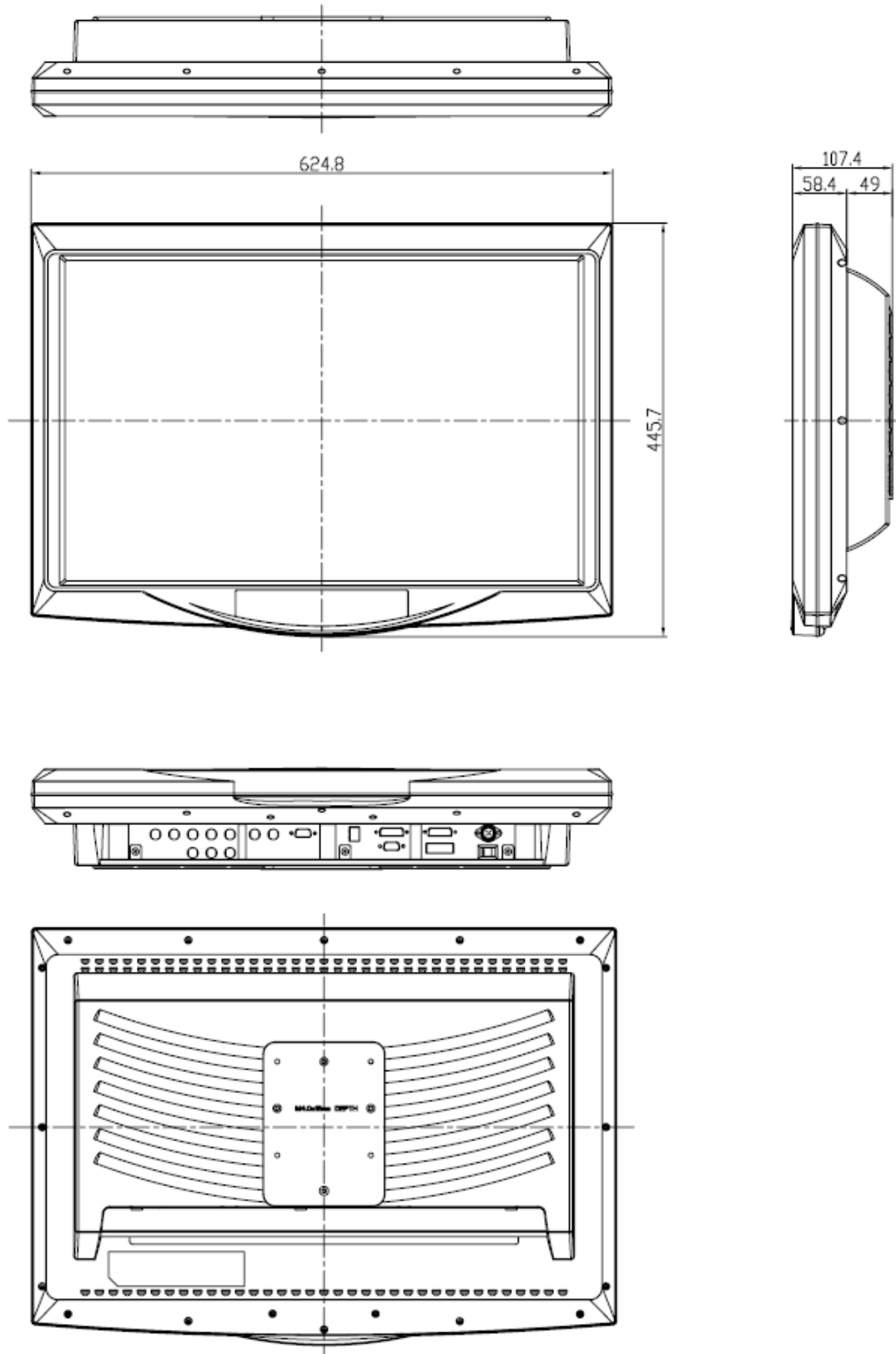
Menus	Function Descriptions
IMAGE SETTING	Save the 5 user's setting about BRIGHTNESS, CONTRAST, COLOR TEMP, FILTER value separately. (PRESET 1~2, USER 1~3)
ZOOM / PAN	<p>Controls the zoom in/out of the image.</p> <p>0 step :  4 step :  9 step : </p> <p>13 step :  18 step :  22 step : </p> <p>26 step :  30 step : </p> <p>Controls the PAN in/out of the image.</p> 
FREEZE FRAME	Freeze the main image. Do not support secondary image freeze at PIP mode
LANGUAGE	Change the OSD language (8 language) ENGLISH / GERMAN / FRENCH / SPANISH / ITALIAN / JAPANESE / CHINESE / KOREAN
OSD POSITION	Adjust the position of OSD 

Menus	Function Descriptions																																																																																													
OSD DURATION	Adjust the time until the OSD Menu will disappear after adjusting the menu																																																																																													
RESET SETTINGS	Reset the unit to factory outgoing status.																																																																																													
AUTO SOURCE SELECT	When AUTO SOURCE SELECT is on, the monitor automatically search input source except PIP sub Source.																																																																																													
USER NAME ENTRY	Put user's name or etc into set.																																																																																													
PIP LAY OUT	Change sub window layout (SINGLE,PIP,PBP1,PBP2) PIP : Main/Sub window doesn't change aspect ratio. PBP1 : Main/Sub window doesn't change aspect ratio. PBP2 : Main/Sub window H/V display 1:1 size.																																																																																													
PIP SOURCE	<div>Select PIP source input. You can change other sub windows through OSD pip menu. Below chart is PIP matching table with main and sub window.</div> <div><div><div></div>VP4726F only</div><table><tr><th colspan="2"></th><th colspan="8">Sub window</th></tr><tr><th colspan="2">Input source</th><th>DVI OPTICAL</th><th>DVI DIGITAL</th><th>DSUB ANALOG</th><th>SDI</th><th>YPbPr</th><th>RGBS</th><th>CVIDEO</th><th>SVIDEO</th></tr><tr><td rowspan="8">Main window</td><td>DVI OPTICAL</td><td>X</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td></tr><tr><td>DVI DIGITAL</td><td>O</td><td>X</td><td>X</td><td>O</td><td>X</td><td>X</td><td>O</td><td>O</td></tr><tr><td>DSUB ANALOG</td><td>O</td><td>X</td><td>X</td><td>O¹</td><td>X</td><td>X</td><td>O</td><td>O</td></tr><tr><td>SDI</td><td>O</td><td>O</td><td>O¹</td><td>X</td><td>O¹</td><td>O¹</td><td>X</td><td>X</td></tr><tr><td>YPbPr</td><td>O</td><td>X</td><td>X</td><td>O¹</td><td>X</td><td>X</td><td>O</td><td>O</td></tr><tr><td>RGBS</td><td>O</td><td>X</td><td>X</td><td>O¹</td><td>X</td><td>X</td><td>O</td><td>O</td></tr><tr><td>CVIDEO</td><td>O</td><td>O</td><td>O</td><td>X</td><td>O</td><td>O</td><td>X</td><td>X</td></tr><tr><td>SVIDEO</td><td>O</td><td>O</td><td>O</td><td>X</td><td>O</td><td>O</td><td>X</td><td>X</td></tr></table><div>O¹ : Support up to UXGA,60Hz (162MHz)</div><div><div></div> When main window is running at 1080p,sub window supports up to 1080i mode only. When main window is running below 1080i,sub window supports up to 1080p mode.</div></div>			Sub window								Input source		DVI OPTICAL	DVI DIGITAL	DSUB ANALOG	SDI	YPbPr	RGBS	CVIDEO	SVIDEO	Main window	DVI OPTICAL	X	O	O	O	O	O	O	O	DVI DIGITAL	O	X	X	O	X	X	O	O	DSUB ANALOG	O	X	X	O ¹	X	X	O	O	SDI	O	O	O ¹	X	O ¹	O ¹	X	X	YPbPr	O	X	X	O ¹	X	X	O	O	RGBS	O	X	X	O ¹	X	X	O	O	CVIDEO	O	O	O	X	O	O	X	X	SVIDEO	O	O	O	X	O	O	X	X
		Sub window																																																																																												
Input source		DVI OPTICAL	DVI DIGITAL	DSUB ANALOG	SDI	YPbPr	RGBS	CVIDEO	SVIDEO																																																																																					
Main window	DVI OPTICAL	X	O	O	O	O	O	O	O																																																																																					
	DVI DIGITAL	O	X	X	O	X	X	O	O																																																																																					
	DSUB ANALOG	O	X	X	O ¹	X	X	O	O																																																																																					
	SDI	O	O	O ¹	X	O ¹	O ¹	X	X																																																																																					
	YPbPr	O	X	X	O ¹	X	X	O	O																																																																																					
	RGBS	O	X	X	O ¹	X	X	O	O																																																																																					
	CVIDEO	O	O	O	X	O	O	X	X																																																																																					
	SVIDEO	O	O	O	X	O	O	X	X																																																																																					
PIP SIZE	<div>Change PIP mode sub window size.</div> <div><div>SMALL</div><div>LARGE</div><div><div><div>Main</div><div>Sub</div></div><div>25 % / Panel size</div></div><div><div><div>Main</div><div>Sub</div></div><div>33 % / Panel size</div></div></div> <div>* CAUTION : Do not change input Source aspect ratio and the pip image size is changeable depend on input timing.</div>																																																																																													
PIP POSITION	<div>Change PIP mode sub window position.</div> <div><div><div><div>Sub</div><div>Main</div></div><div><div>Sub</div><div>Main</div></div><div><div>Sub</div><div>Main</div></div><div><div>Sub</div><div>Main</div></div><div><div>Sub</div><div>Main</div></div></div><div><div><div>Main</div><div>Sub</div></div><div><div>Main</div><div>Sub</div></div><div><div>Main</div><div>Sub</div></div><div><div>Main</div><div>Sub</div></div></div></div>																																																																																													

Menus	Function Descriptions
SWAP	<p>Change main window and sub window position on PIP,PBP1,PBP2.</p> <div><div></div><div><p>PIP</p></div><div></div></div> <div><div></div><div><p>PBP1</p></div><div></div></div> <div><div></div><div><p>PBP2</p></div><div></div></div>

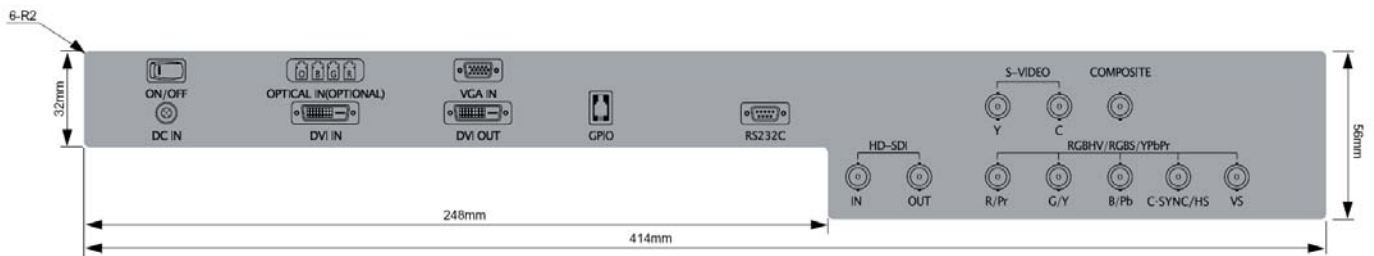
6. Mechanical Specifications

6.1 Product dimension



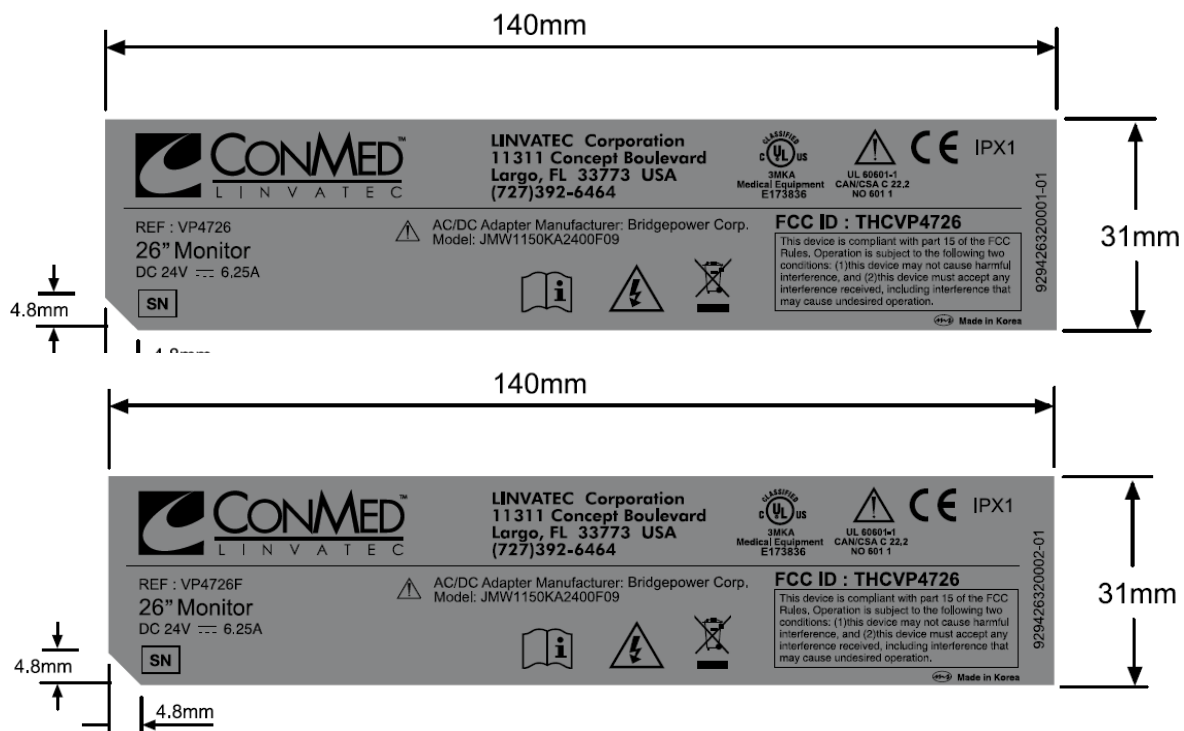
6.2 Label dimension

6.2.1 Connector (Function) label



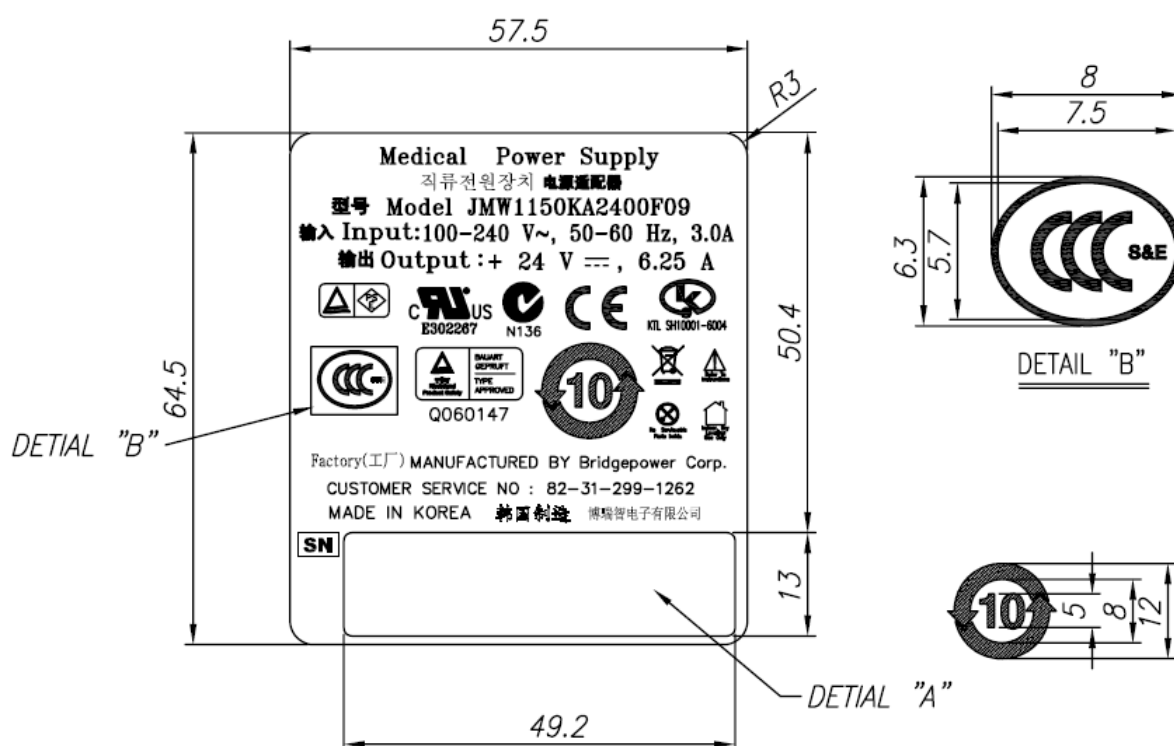
6.2.2 Product label

Brand Logo	ConMed Linvatec	
Model NO.	VP4726 / VP4726F	
Rating Label (This may vary based on the Customer's request, and the changed contents of the Rating Label shall not be specified in this specification.)	Location	The left bottom side of rear-cover
	Tilt	Shall not be tilted more than 1mm
	Size	140X31(mm)
	Material	Polyester film (75Demicron)
	Base Color	The color same as rear housing(Gray)



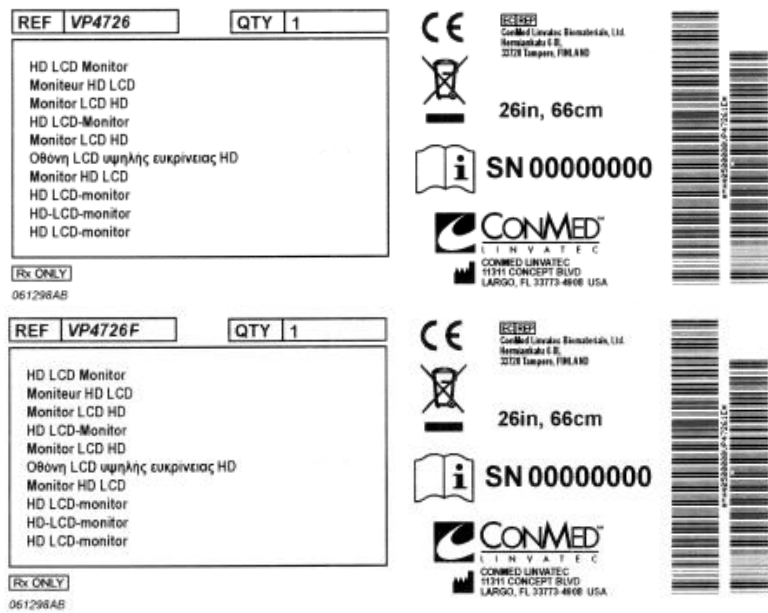
6.2.3 AC ADAPTOR Label

Location	The center of rear-cover
Tilt	Label shall not be tilted more than 1mm
Size	57.5 x 64.5 (mm)
Material	Polyester film 125u
Base Color	Black



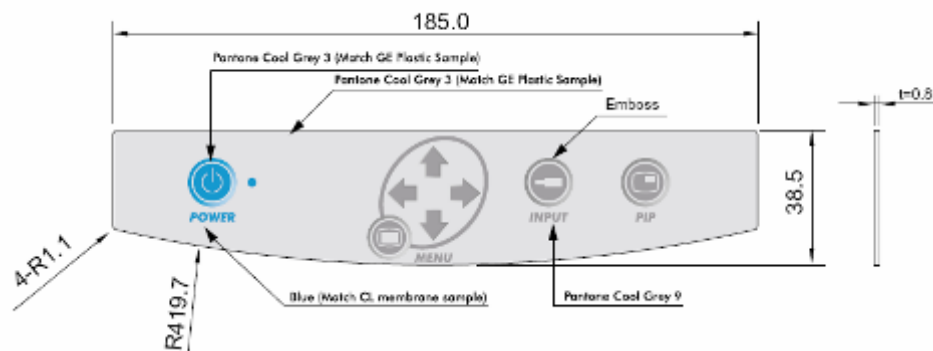
6.2.4 BOX label

Location	The left and right center side
Tilt	Shall not be tilted more than 1mm
Size	161X63.5(mm)
Material	Art paper
Base Color	White



6.2.5 Membrane switch

Location	The center bottom side of front bezel
Tilt	Shall not be tilted more than 1mm
Size	185X38.5(mm)
Material	Pc auto tex
Base Color	The color same as front bezel



6.3 Filter dimension

6.3.1 General specification

Item	Description	Unit
Size	(576 +0/-1mm) x (356 +0/-1mm) x (3±0.3mm)	mm
Average reflectance	Less than 1% (450 ~600nm)	nm
Coating	Double side Anti-Reflection coating	
Transmittance	97% (at 545nm of the wavelength) (The average transmittance in the range of 450 ~ 650nm should be 97%)	%
Reflection color	Between Blue-Violet & Red-Violet	
Appearance	No harmful defect such as void, groove, and contamination	
Surface	No contamination, No discoloration, No alien substance	

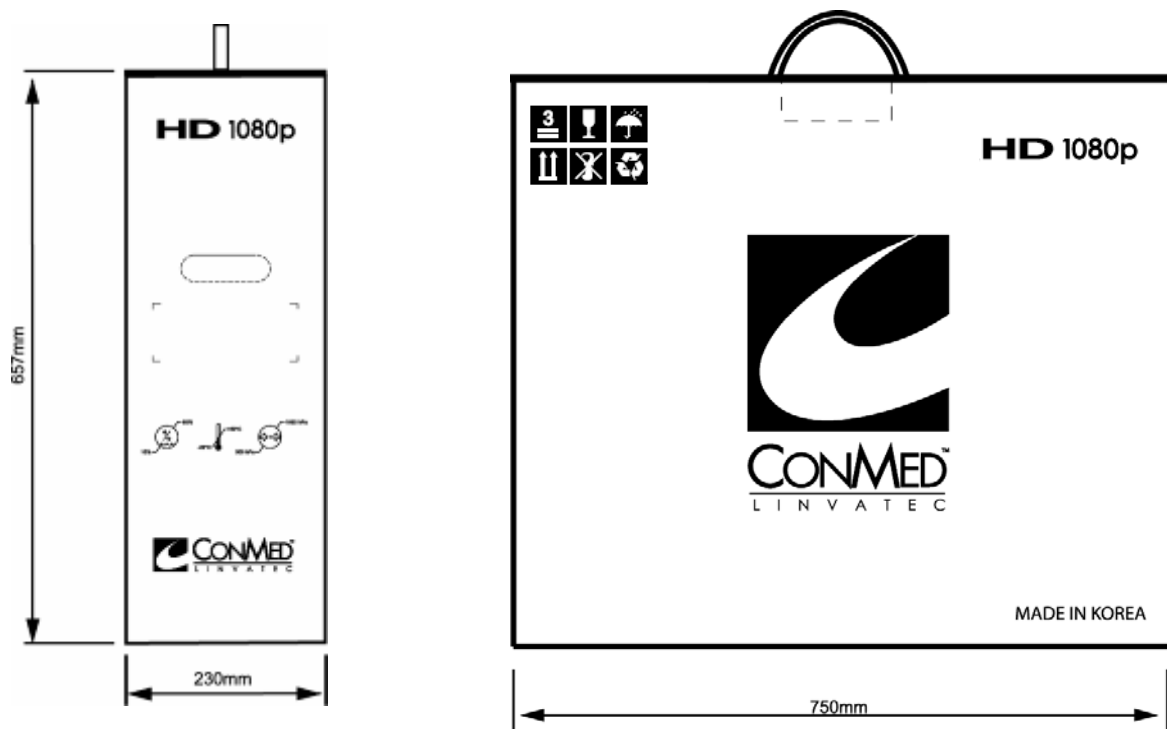
7. Packing

7.1 Packing

7.1.1 Carton Dimension

Width	Depth	Height	Weight
750 mm	230 mm	657 mm	14.5Kg

This unit conforms to all specifications in the "General Specification VP4726 / VP4726F " document, dated 09.01.20



7.1.2 Accessory

