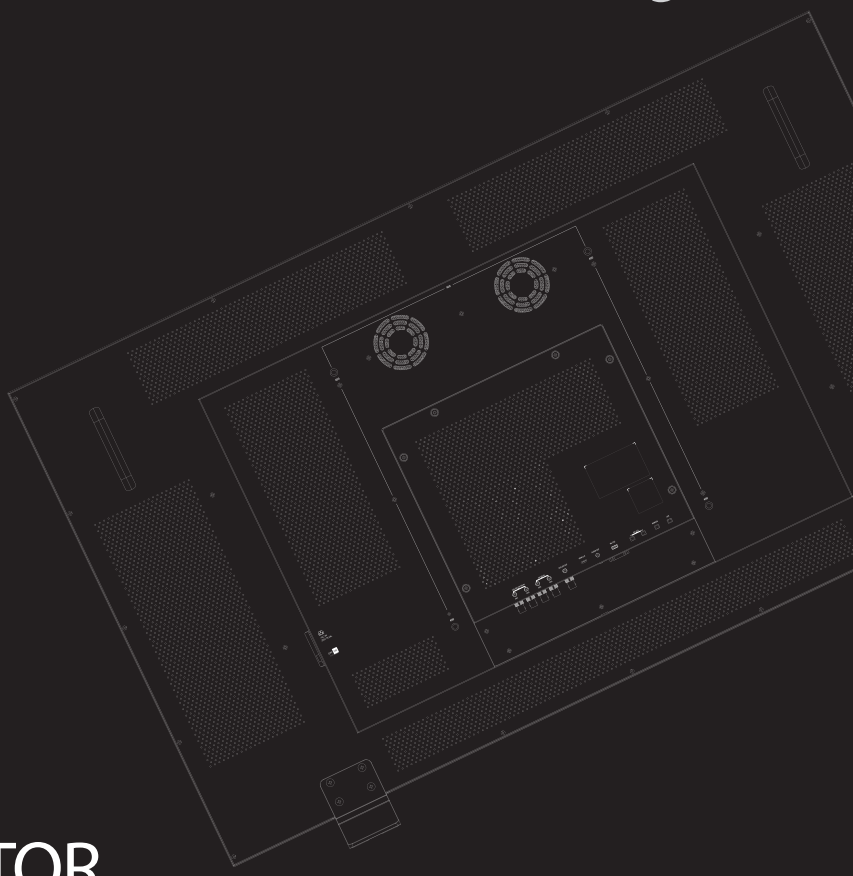
TVlogic®



LUM-550M3
LUM-550M2
LUM-430M3
LUM-430M2

MULTI FORMAT 4K/UHD LCD MONITOR

Operation Manual_V1.2



TVlogic® Always ON-AIR

FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interface when the equipment is operated in a commercial environment.
This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential to correct the interference at his own expense

CAUTION: Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Disposal of Old Electrical & Electronic Equipment

(Applicable in the European Union and other European countries with separate collection systems)
This symbol on the product or on its packing indicates that this product shall not be treated as household waste.
Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.
By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

Contents

01	Caution	04p
02	Main Features	06p
03	Controls & Functions	07p
04	Menu Tree & Adjustment	13p
05	Menu Operations	16p
	[1] PICTURE	16p
	[2] VIDEO	17p
	[3] COLOR	19p
	[4] MARKER	20p
	[5] WAVEFORM	21p
	[6] GPI	22p
	[7] NETWORK	23p
	[8] AUDIO	24p
	[9] SYSTEM	25p
06	Firmware Upgrade	26p
07	Video Support Resolution	27p
08	Product Specifications	30p

01 CAUTION

- **Always use set voltage.**
  - AC 100 ~ 240V

- All operating instructions must be read and understood before the product is operated.

- These safety and operating instructions must be kept in safe place for future reference.

- All warnings on the product and in the instructions must be observed closely.

- All operating instructions must be followed.

- Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.

- This product must be operated on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.

- The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.

- Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.

- Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

- Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.

- If any of the following conditions occurs, unplug the power cord from the DC outlet, and request a qualified service person to perform repairs.

  a. When the power cord or plug is damaged.
  b. When a liquid was spilled on the product or when objects have fallen into the product.
  c. When the product has been exposed to rain or water.
  d. When the product does not operate properly as described in the operating instructions. Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
  e. When the product has been dropped or damaged.
  f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.

- In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

- Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

- The power cord plug shall be connected to a MAINS socket outlet with a protective earthing connection.

- Unplug the power cord from the AC outlet when happening any problem in the product.

- When mounting the product be sure to install the product according to the method recommended by the manufacturer.

01 CAUTION

- Unplug the power cord from the DC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Unplug the power cord from the AC outlet if you do not use the product for considerably long time.
- Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
- Keep the product away from direct rays of the Sun-light.
- Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instruction. Use only the mounting hardware recommended by the manufacturer.
- When relocating the product placed on a cart, it must be moved with the utmost care.
- Infrared devices can cause noise or malfunction under condition as below.
  - parts of the body come into contact with the infrared transmiter or acoustic device.
  - Obstacles can cause electrical changes if there is a partition in the middle or in the wall.
  - Exposure to radio interference from medical equipment, microwave ovens, wireless LAN devices, etc. with the same frequency band.
- Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- In case of installation the product on the rack, the inside of the product would be overheated due to heat from other devices near by and the decrease of air circulation, which could damage to the monitor. To prevent the damage, please have enough space for the monitors and use fan to avoid heat and maintain the operating temperature. (Refer to the specication of the product).
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.
- Keep the product away from heat sources such as radiators, heaters, stoves and other heat generating products (including amplifiers).

WARNING



<Main Switch>

| means Power on when pressing

○ means Power off when pressing



<Beside critical components in circuit diagram>

To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth (ground) electrode.



<Near the main terminal block>

This mark indicates the possibility of injury or damage to property.

02 MAIN FEATURES

LUM-550M3/550M2/430M3/430M2 models contain the following features

- **Compatible with various SDI signal formats**
  - This product is compatible with various SDI signals - 480i, 576i, 1080i, 1080p, 1080psf, 2160p.

- **All-in-one type system**
  - Slim and all-in-one type monitor that requires no additional accessories, for optimized space utilization.
  - This product is suitable for installation in the Studio Wall.

- **Wide Screen support**
  - This product supports native 16:9 aspect ratio.

- **Remote control function**
  - This product can simply be Remote-controlled by cable connection without additional peripheral equipment attached to unit.
  - This product supports TVLogic's Remote Control program.

- **Ethernet & USB support**
  - Supports Ethernet and USB connection for easy update of new function and error correction.

- **HDMI input support**
  - Supports HDMI inputs without additional equipment.

- **3G Support**
  - Supports 3G A/B format.

- **12G-SDI Support**
  - Supports 12G-SDI format.

- **HDR Emulation**
  - Supports various HDR EOTFs including PQ and HLG, which allow the monitor to display HDR content.

- **Camera LUT**
  - Various Camera LUTs integrated in the monitor can be applied to the input video.

- **Waveform**
  - Displays the shape and form of luminance level of a signal.

- **Vector Scope**
  - Displays color components of the input signals.

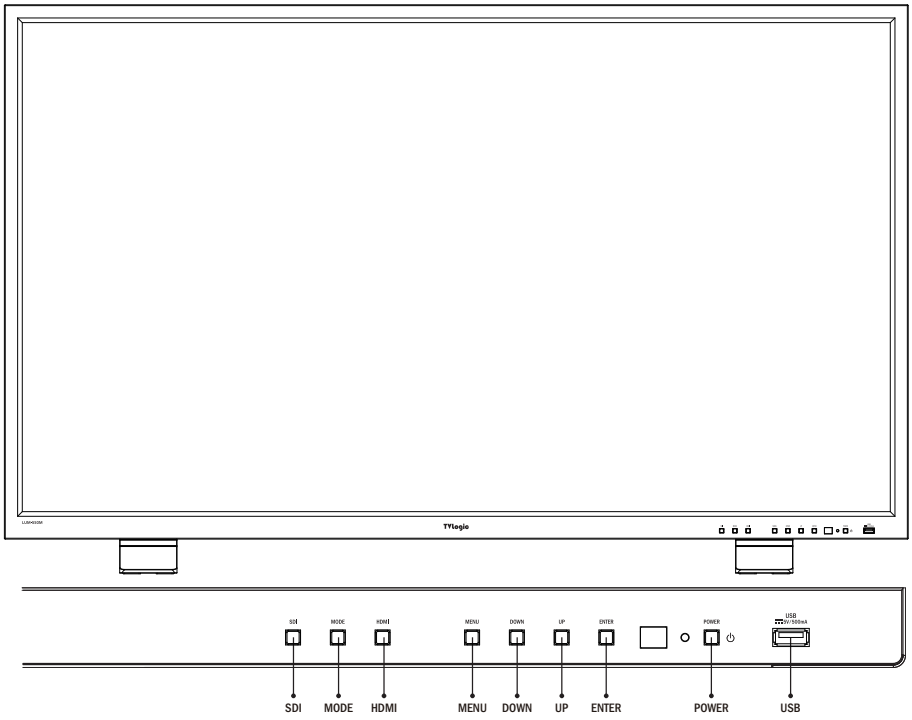
- **Marker**
  - Various Marker modes are supported: Center Marker, Safety Marker, Fit Marker, Marker Mat, Marker Thickness, Marker Color, etc.

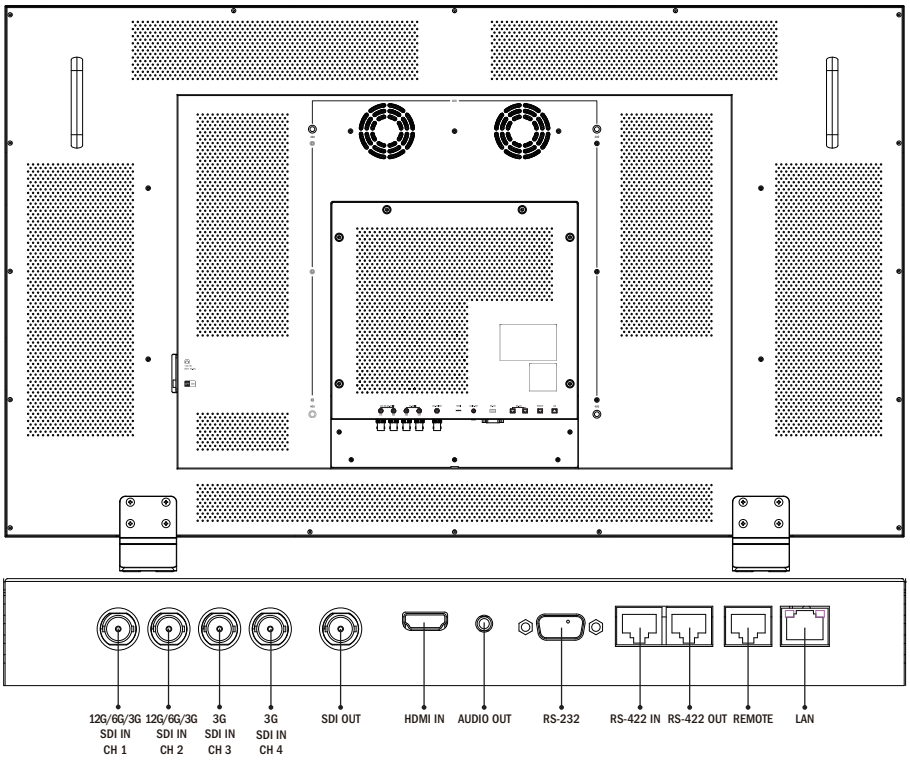
- **16 Channel Audio Level Meter**
  - Audio channel grouping is supported, and the level meter position can be changed.

- **Time Code**
  - Displays the time code embedded in the signal.

03 CONTROLS & FUNCTIONS

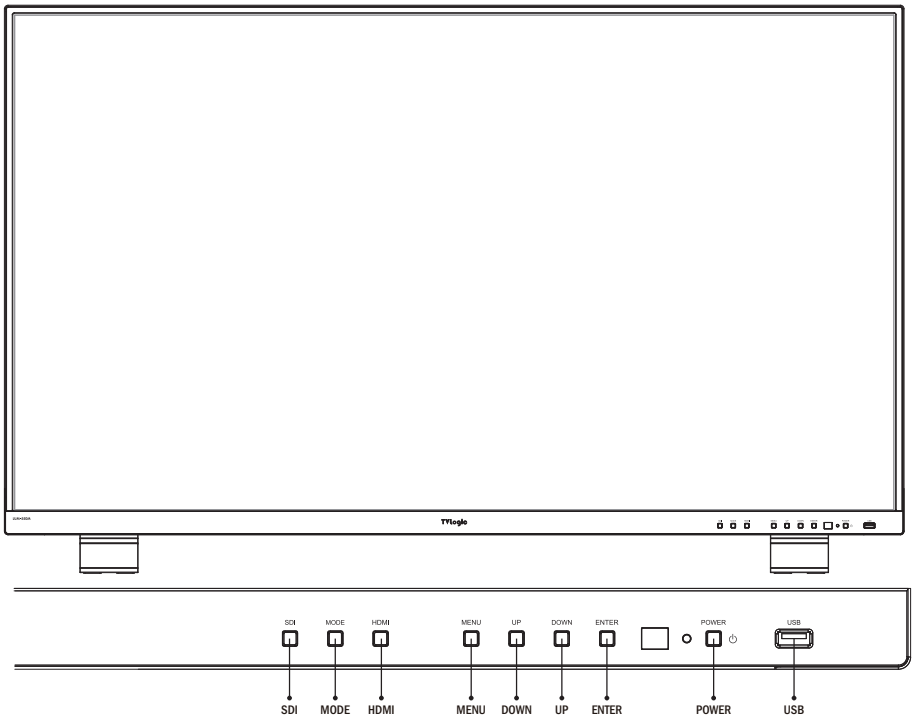
LUM-550M3 ALL PART (FRONT / REAR)

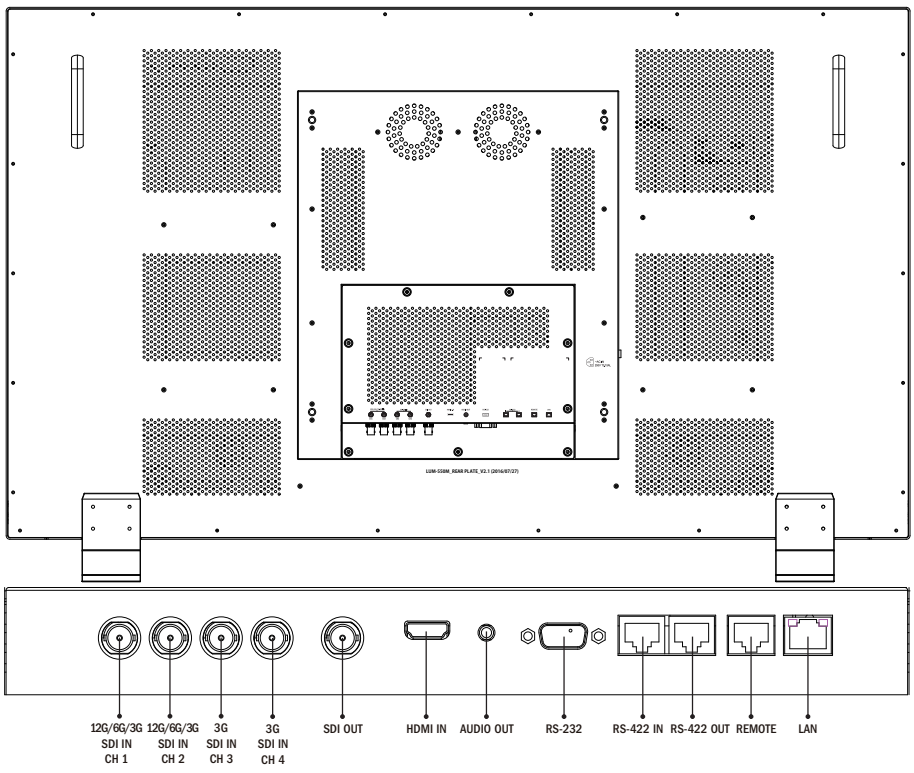




03 CONTROLS & FUNCTIONS

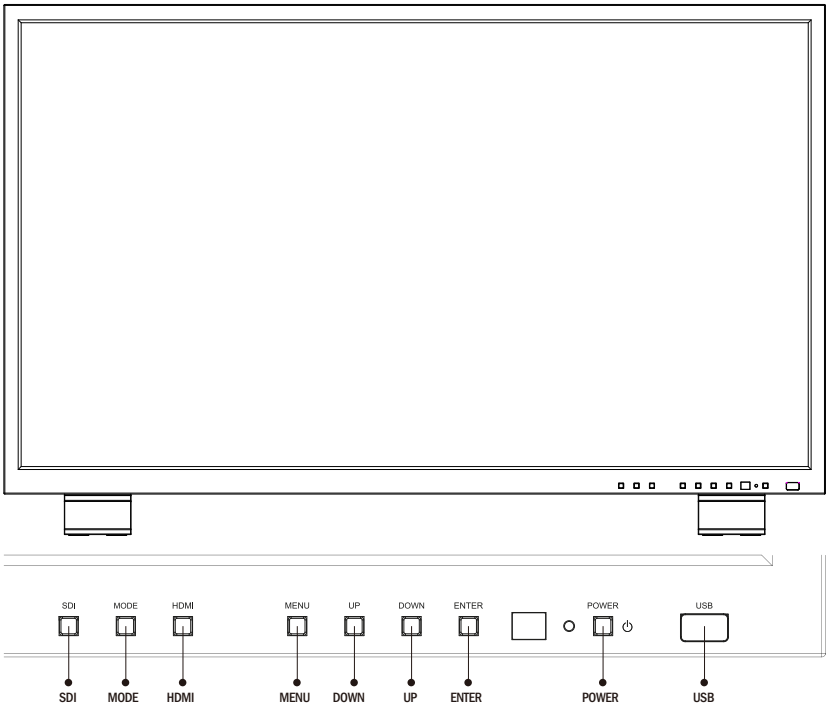
LUM-550M2 ALL PART (FRONT / REAR)

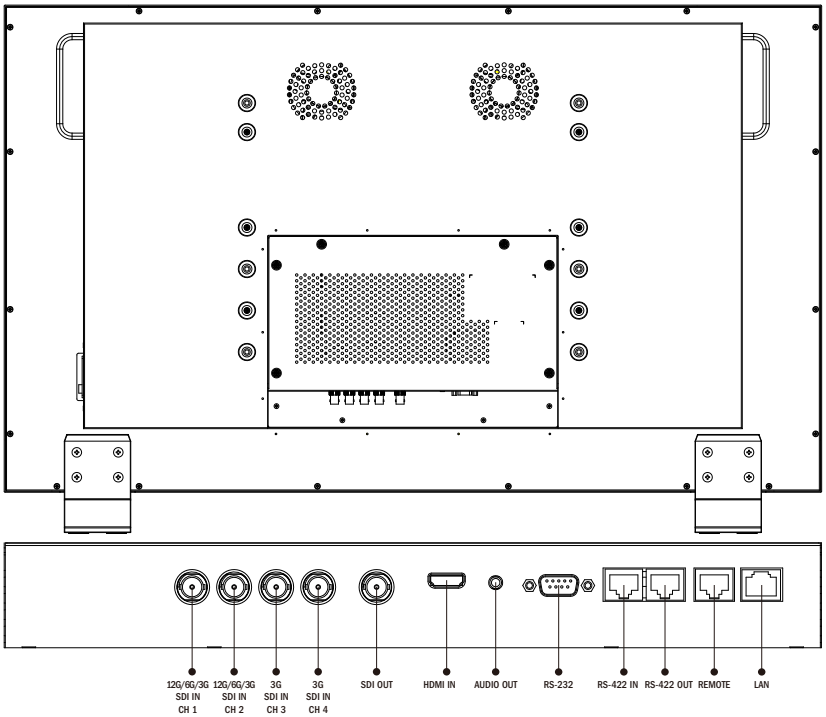




03 CONTROLS & FUNCTIONS

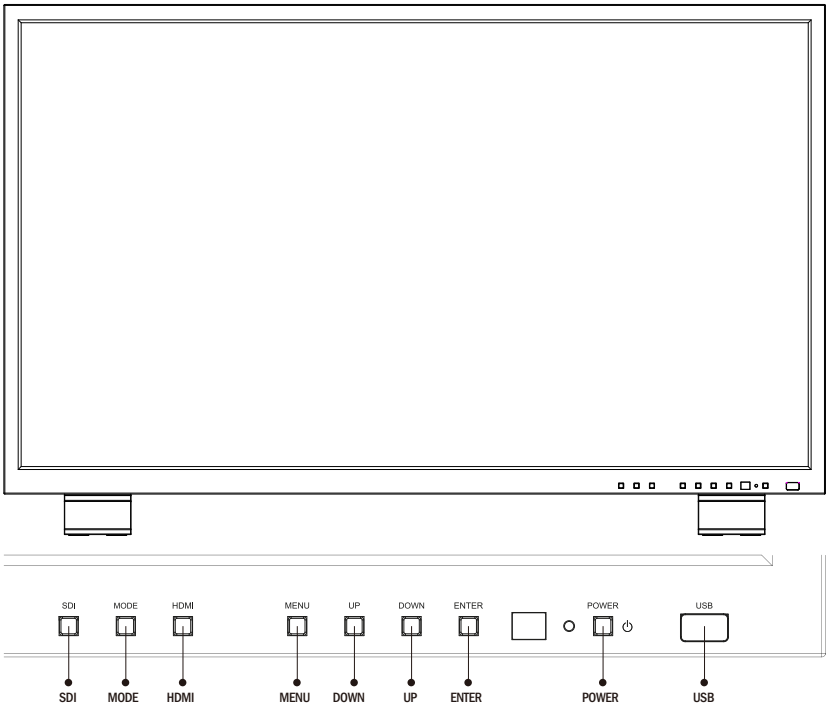
LUM-430M3 ALL PART (FRONT / REAR)

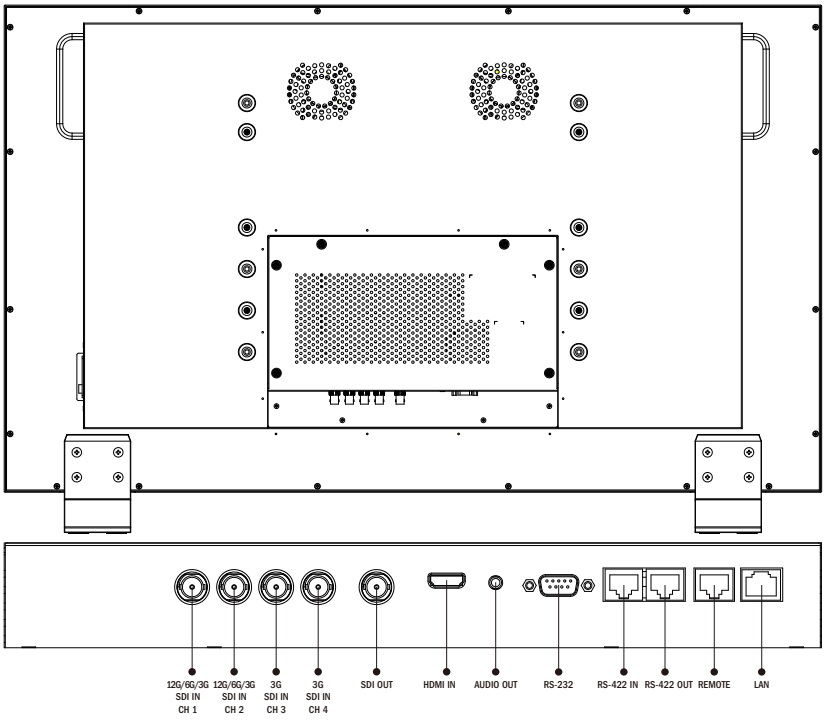




03 CONTROLS & FUNCTIONS

LUM-430M2 ALL PART (FRONT / REAR)





03 CONTROLS & FUNCTIONS

FRONT

- **[SDI] Button / Lamp**
  - Used to select SDI A/B input signal.

- **[MODE] Button / Lamp**
  - Used to select the UD MODE.
  - Press the button to move through the modes : 2-SAMPLE -> 4 QUAD -> SINGLE

- **[HDMI] Button / Lamp**
  - Used to select HDMI input.

- **[MENU] Button**
  - Used to activate the OSD menu.

- **[DOWN] Button**
  - Used to down through the menus during the OSD menu activation.
  - Also used to decrease the value of the selected feature.

- **[UP] Button**
  - Used to move up through the menus during the OSD menu activation.
  - Also used to increase the value of the selected feature.

- **[ENTER] Button**
  - Used to confirm a chosen value.

- **[POWER INDICATOR / LED] Lamp**
  - Indicates condition and power status of unit.
  - Light turns off when the power is disconnected.
  - Standby mode is indicated by a red LED light.
  - Normal (active) mode is indicated by a Green LED light.
  - The Green light turns off when the monitor is Normal(active) mode without input signal.

- **[POWER] Button / Lamp**
  - Used to turn the power on and off.

- **[USB]**
  - Use the Micro B Type USB. The OTG gender is required when using a USB Memory Stick.
  - Used to upgrade the firmware using a USB Memory Stick or calibrate the monitor's color temperature using the TVLogic's color calibration tool.

03 CONTROLS & FUNCTIONS

REAR

- **[12G/6G/3G-SDI INPUT x 4] (BNC)**
  - Signal input terminal for HD/SD SDI signal.
  - The first and second SDI INPUT terminal supports up to 12G input.

- **[12G/6G/3G-SDI OUTPUT] (BNC)**
  - 12G/3G signal output terminal for HD/SD SDI signal.

  * SDI Output is not activated when the unit is turned off or in Standby mode.

- **[HDMI] (HDMI)**
  - Signal input terminal for HDMI signal.

- **[AUDIO OUTPUT] (PHONE JACK)**
  - Used to select the left/right Audio embedded signal output.

- **[RS-232 PORT] (RJ-45)**
  - Used to update new program to add new functions and correct errors.

- **[RS-422 IN / OUT PORT] (RJ-45)**
  - Used to control the monitor with a protocol provided by TVLogic.

- **[REMOTE] (RJ-45)**
  - Provides connection to control equipment for external monitor control.
  - Features can be changed in the GPI section of the OSD menu.

- **[LAN]**
  - Used to control the monitor with a protocol provided by TVLogic.

- **~ AC IN**
  - 100 ~ 240V AC 50/60Hz

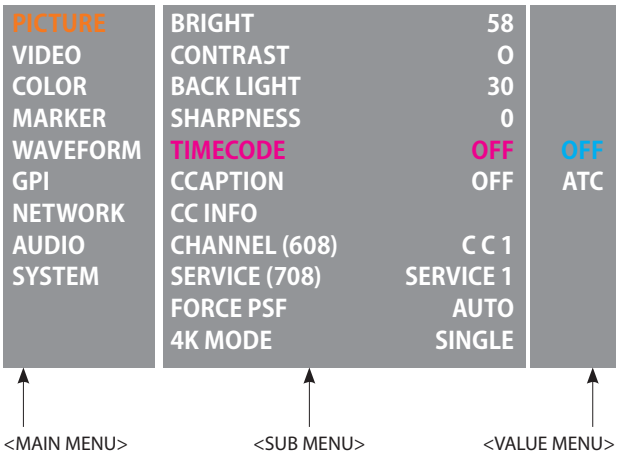
<WARNING!!>
When using the product make sure to ground, whenever possible, before connecting the input signal cable in order to prevent any possible damage to the product or connected devices. The damage may include signal noise, malfunction of main board or display panel. And the connected devices such as camera or video source player may also be influenced through signal cable. Please check if the AC power source and the power extender or power distributor is grounded.

04 MENU TREE & ADJUSTMENT

MENU ORGANIZATION & MENU CONTROL & MENU CONTROL SEQUENCE & MENU TREE

[1] Menu Organization

- **The product may be controlled and set system-wise through OSD displayed on the screen.**
  - Below is the layout of the product's menu.



[2] Menu Control

- **You may control various functions using MENU, UP, DOWN, ENTER buttons on the bottom front of the monitor and GPI CONTROLLER PC REMOTE CONTROL S/W.**

[3] Menu Control Sequence

- **Menu Control sequence follows the order below:**

1. Press the MENU button to activate the OSD menu.
2. Move to a desired menu with the UP / DOWN button.
3. Press the ENTER button to select a menu and move to a sub-menu with the UP / DOWN button.
4. Press the ENTER button to select the desired sub-menu.
   (The selected sub-menu's font color will be changed to blue.)
5. Press ENTER button to save the new value after adjusting the value with UP / DOWN button. [The changed font color will be returned to default(white).]
6. Press the MENU button to return to the previous menu and if there is no previous menu, the OSD menu will be removed from the screen.

04 MENU TREE & ADJUSTMENT

MENU ORGANIZATION & MENU CONTROL & MENU CONTROL SEQUENCE & MENU TREE

[4] Menu Tree

PICTURE	BRIGHT
	CONTRAST
	BACK LIGHT
	SHARPNESS
	TIMECODE
	CCAPTION
	CC INFO
	CHANNEL(608)
	SERVICE(708)
	FORCE PSF
	4K MODE
VIDEO	STANDARD
	VIDEO RANGE
	PEAK LUM
	BLACK LEVEL
	COLOR GAMUT
	COLOR TEMP
	EOTF
	EETF
	HLG SG
	S.G.
	CAM LUT

COLOR	TEMP
	GAIN R
	GAIN G
	GAIN B
	BIAS R
	BIAS G
	BIAS B
	COLOR COPY
MARKER	MARKER
	CENTER MARKER
	SAFETY AREA
	FIT MARKER
	MARKER MAT
	MARKER COLOR
	THICKNESS
	USER MARKER H1
	USER MARKER H2
	UAER MARKER V1
	USER MARKER V2

04 MENU TREE & ADJUSTMENT

MENU ORGANIZATION & MENU CONTROL & MENU CONTROL SEQUENCE & MENU TREE

[4] Menu Tree

WAVEFORM	ENABLE
	TYPE
	INTENSITY
	LINE WAVEFORM
	LINE SEL POS
GPI	GPI 1 ~ GPI 8
	GROUP ID
	MONITOR ID
	RS-422 BAUD
NETWORK	DHCP
	IP ADDR
	SUBNET
	GATEWAY
	PORT
	IP APPLY
	MAC ADDR

AUDIO	VOLUME
	AUD CH
	LVM TYPE
	LVM SIZE
SYSTEM	DEFAULT
	USER CONFIG
	KEY LED
	SDI OUT
	OSD DISPLAY
	SW UPGRADE
	VERSION
	SIG (Input Signal)
	High Bright

05 MENU OPERATIONS

[1] PICTURE

PICTURE	BRIGHT	58
VIDEO	CONTRAST	0
COLOR	BACK LIGHT	30
MARKER	SHARPNESS	0
WAVEFORM	TIME CODE	OFF
GPI	CCAPTION	OFF
NETWORK	CC INFO	
AUDIO	CHANNEL(608)	CC1
SYSTEM	SERVICE(708)	SERVICE 1
	FORCE PSF	AUTO
	4K MODE	SINGLE

- **BRIGHT**
  - Used to set the brightness(=offset) level from -100 to 100.

- **CONTRAST**
  - Used to set the contrast(gain) level from - 100 to 100.

- **BACK LIGHT**
  - Used to control the brightness of the LCD panel backlight from 0 to 127.

- **SHARPNESS**
  - Use to control the Sharpness level from 0 to 24.

- **TIMECODE**
  - Timecode setting. The setting mode is OFF, ATC.

- **CCAPTION (Closed Caption)**
  - Used to control the Closed Caption.
  - Available modes are OFF, ANC (608/708) and LINE21(608).

- **CC INFO (Closed Caption Information)**
  - Used to display the current setting closed caption information.

- **CHANNEL(608)**
  - Used to set the Channel of the Closed Caption 608 among CC 1 ~ CC 4.

- **SERVICE(708)**
  - Used to set the Service of the Closed Caption 708.
  - Available modes are from Service 1 to Service 6.

- **FORCE PSF**
  - Used to set the PSF forcibly. Available modes are AUTO, ON, and OFF.

- **4K MODE**
  - Used to set the 2 SAMPLE INTERLEAVE, 4 INPUT QUAD and SINGLE.

05 MENU OPERATIONS

[2] VIDEO

PICTURE	STANDARD	USER 1
VIDEO	VIDEO RANGE	LIMITED
COLOR	PEAK LUM	100
MARKER	BLACK LEVEL	0.000
WAVEFORM	COLOR GAMUT	BT.709
GPI	COLOR TEMP	USER 2
NETWORK	EOTF	2.4
AUDIO	EETF	OFF
SYSTEM	HLG SG	OFF
	S.G	
	CAM LUT	OFF

- **STANDARD**
  - Used to select the color and dynamic rage of the screen.
  - Available options are HD, UHD, DCI-P3, PQ, HLG, SLog3 and User1/2/3.

  * Activates only in the User1/2/3 mode.

- **VIDEO RANGE**
  - Used to select the range of digital video signal.

  * FULL : Input signal 0~255 (8bit), 0~1023 (10bit) (When connecting the PC)
  * LIMITED109 : Input signal Y': 16~235, CbCr: 16~240 (8bit)/ Y': 64~940, CbCr: 64-960 (10bit)

- **PEAK LUM (Peck Luminance)**
  - Used to select the Peak Luminance of the monitor.
  - Available options are 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 2000, 4000 and 10000.
  - Activates only in the User1/2/3 mode.

- **BLACK LEVEL**
  - The minimum black level of the video signal can be set differently depending on the performance of the monitor or the lighting environment. For example, the lowest luminance that the F-7H mk2 can display is 0.002, but it is necessary to adjust the offset level to about 0.2nit when using under bright light.
  - At this time, when the black level is set to 0.2, dark gradations below 0.2 nit are expressed without crushing.
  - Activates only in the User1/2/3 mode.

- **COLOR GAMUT**
  - Used to select the standard color gamut.
  - Available options are BT.709, DCI-P3, BT.2020 and Native.

  * The submenus may be activated in the User1/2/3 mode only.

- **COLOR TEMP (Color Temperature)**
  - Controls the color temperature.
  - Available options are 6500K, 9300K and User.

  * The submenus may be activated in the User1/2/3 mode only.

05 MENU OPERATIONS

[2] VIDEO

PICTURE	STANDARD	USER 1
VIDEO	VIDEO RANGE	LIMITED
COLOR	PEAK LUM	100
MARKER	BLACK LEVEL	0.000
WAVEFORM	COLOR GAMUT	BT.709
GPI	COLOR TEMP	USER 2
NETWORK	EOTF	2.4
AUDIO	EETF	OFF
SYSTEM	HLG SG	OFF
	S.G	
	CAM LUT	OFF

- **EOTF (Electro-Optical Transfer Function)**
  - Electrophotic conversion Functions (ex: Gamma or HDR curve).
  - Available modes are 2.2, 2.4, 2.6, PQ, HLG and SLOG3.

  * The submenus may be activated in the User1/2/3 mode only.

- **EETF (Electrical-Electrical Transfer Function)**
  - Used to display the HDR image(without clipping) within the actual luminance range (black level and peak luminance) that the monitor can express. In the Auto mode, the HDR image is converted within the range of set peak luminance and black level. In the OFF mode, the video signal outside of the set range is clipped.
  - Available modes are OFF and AUTO.
  - Available only when the EOTF is set to PQ or SLOG3.

  * The submenus may be activated in the User1/2/3 mode only.

- **HLG SG (HLG System Gamma)**
  - Used to set the System Gamma of HLG mode.
  - In the Auto mode, the value of the System Gamma changes automatically according to the previously set peak luminance. When it is OFF, the value is set to default value of 1. 2.
  - Activates only when the EOTF is set to HLG.

  * The submenus may be activated in the User1/2/3 mode only.

- **SG (System Gamma)**
  - The System Gamma of HLG is automatically calculated and displayed according to the set peak luminance.
  - Activates only when the EOTF is set to HLG and the HLG SG is Auto.

- **CAM LUT (Camera LUT)**
  - Used to change the Camera LUT.
  - Available LUTs are OFF, LOG-C, C-LOG, S-LOG 1, 2, 3 and REDGamma 3, 4.

05 MENU OPERATIONS

[3] COLOR

PICTURE	TEMP	6500K
VIDEO	GAIN R	0
COLOR	GAIN G	0
MARKER	GAIN B	0
WAVEFORM	BIAS R	0
GPI	BIAS G	0
NETWORK	BIAS B	0
AUDIO	COLOR COPY	-
SYSTEM		

- **TEMP (Temperature)**
  - Controls the color temperature and allows instant access to preset the color temperature settings.
  - Available color temperatures are 9300K, 6500K, 3200K and USER 1/2/3.
  - In USER 1/2/3 modes, user can define custom RGB GAIN, BIAS and COLOR COPY values.

- **GAIN R**
  - Used to set Red Gain(or Picture, Contrast) level from -128 to 127.
  - Adjusts the red color of bright section.
  - Only available in Custom 1/2/3 mode.

- **GAIN G**
  - Used to set Green Gain(or Picture, Contrast) level from -128 to 127.
  - Adjusts the green color of bright section.
  - Only available in Custom 1/2/3 mode.

- **GAIN B**
  - Used to set Blue Gain(or Picture, Contrast) level from -128 to 127.
  - Adjusts the blue color of bright section.
  - Only available in Custom 1/2/3 mode.

- **BIAS R**
  - Used to set Red Bias(or Offset, mainly affects on Black level) from -128 to 127.
  - Adjusts the red color of dark section.
  - Only available in CUSTOM 1/2/3 mode.

- **BIAS G**
  - Used to set Green Bias(or Offset, mainly affects on Black level) from -128 to 127.
  - Adjusts the green color of dark section.
  - Only available in CUSTOM 1/2/3 mode.

- **BIAS B**
  - Used to set Blue Bias(or Offset, mainly affects on Black level) from -128 to 127.
  - Adjusts the blue color of dark section.
  - Only available in CUSTOM 1/2/3 mode.

- **COLOR COPY**
  - Used to copy the R/G/B Gain value of pre-stored color temperature settings.
  - In User mode, find and select the color temperature to be used with the UP/DOWN button and press the Enter button to copy and apply the Gain value to GAIN RED, GAIN GREEN, GAIN BLUE.
  - Only available in CUSTOM 1/2/3 mode.

05 MENU OPERATIONS

[4] MARKER

PICTURE	MARKER	OFF
VIDEO	CENTER MARKER	OFF
COLOR	SAFETY AREA	OFF
MARKER	FIT MARKER	OFF
WAVEFORM	MARKER MAT	OFF
GPI	MARKER COLOR	WHITE
NETWORK	THICKNESS	1
AUDIO	USER MARKER H1	0
SYSTEM	USER MARKER H2	0
	USER MARKER V1	0
	USER MARKER V2	0

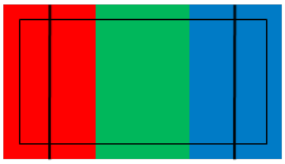
- **MARKER**
  - Used to select the marker type when the MARKER is displayed on the screen.

MODE	MARKER CLASS
HD	16:9, 4:3, 15:9, 14:9, 13:9, 1.85:1, 2.35:1, USER
SD 16:9	
SD 4:3	16:9, 4:3, 15:9, 14:9, 13:9, 1.85:1, 2.35:1, USER

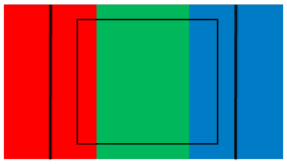
- **CENTER MARKER**
  - Used to select the availability of the CENTER MARKER on the screen.

- **SAFETY MARKER**
  - Used to select and control the size and availability of the SAFETY AREA.
  - Available types are 80%, 85%, 88%, 90%, 93%, 100%, EBU ACTION 16:9, EBU GRAPHIC 16:9, EBU ACTION 14:9, EBU GRAPHIC 14:9, EBU ACTION 4:3 and EBU GRAPHIC 4:3.

- **FIT MARKER**
  - Used to activate or inactivate the FIT MARKER function.
  - When the Marker type is selected in the Marker menu, a border line of the Safety Area will be displayed inside the Marker.
  - FIT MARKER ON/OFF displays as shown below.



- MARKER : 4:3
- SAFETY AREA : 90%
- FIT MARKER : OFF



- MARKER : 4:3
- SAFETY AREA : 90%
- FIT MARKER : ON

- **MARKER MAT**
  - Used to set the darkness level outside of the MARKER area.
  - Available values are from OFF (transparent) to 7(Black).

- **MARKER COLOR**
  - Used to control the color of MARKER lines.
  - Available colors are White, Yellow, Cyan, Green, Magenta, Red, Blue, Black and Adaptive.

- **THICKNESS**
  - The item controls the thickness of the MARKER lines.
  - The degrees of thickness are between 1 ~ 4.

- **USER MARKER H1**
  - Used to set the position of the first horizontal marker line.
  - Displayed when MARKER menu is set to USER.

- **USER MARKER H2**
  - Used to set the position of the second horizontal marker line.
  - Displayed when MARKER menu is set to USER.

- **USER MARKER V1**
  - Used to set the position of the first vertical marker line.
  - Displayed when MARKER menu is set to USER.

- **USER MARKER V2**
  - Used to set the position of the second vertical marker line.
  - Displayed when MARKER menu is set to USER.

05 MENU OPERATIONS

[5] WAVEFORM

PICTURE	ENABLE	OFF
VIDEO	TYPE	OFF
COLOR	INTENSITY	1
MARKER	LINE WAVEFORM	OFF
WAVEFORM	LINE SEL POS	1
GPI		
NETWORK		
AUDIO		
SYSTEM		

- **ENABLE**
  - Used to activate / deactivate the Waveform function. Available modes are OFF and ON.

- **TYPE**
  - Used to set the type of the Waveform.
  - Available options are OFF, WAVEFORM, VECTORSCOPE and WAVE_VECTOR.

- **INTENSITY**
  - Used to set the brightness level of the Waveform display from 1 to 63.

- **LINE WAVEFORM**
  - Used to display the entire data or one line data on the Waveform.
  - Available modes are OFF and ON.

- **LINE SEL POS (Line Select Position)**
  - Used to select specific Vertical Line for Waveform.
  - Control range varies according to the resolution of the input SDI signal.
  - Activates only when the Line Waveform is activated.

05 MENU OPERATIONS

[6] GPI

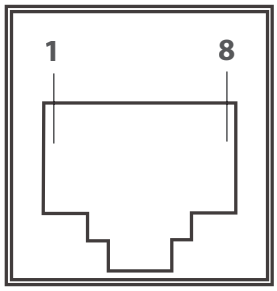
PICTURE	PIN 1	NONE
VIDEO	PIN 2	SDI A
COLOR	PIN 3	SDI B
MARKER	PIN 4	16:9 MAR
WAVEFORM	PIN 5	15:9 MAR
GPI	PIN 6	14:9 MAR
NETWORK	PIN 7	POW ON/ OFF
AUDIO	PIN 8	GND
SYSTEM	GROUP ID	0
	MONITOR ID	0
	RS-422 BAUD	9600

- **GPI 1 ~ 8**
  - This item activates/ deactivates the REMOTE function.
  - The user may designate a function for each pin and each pin's default setting is as follows.
    PIN 1 : HDMI
    PIN 2 : SDI-A
    PIN 3 : SDI-B
    PIN 4 : 16:9 MAR
    PIN 5 : 15:9 MAR
    PIN 6 : 14:9 MAR
    PIN 7 is Power ON/OFF use only, GPI 8 is GND.

  - Each pin's location is as below.

REMOTE (RJ-45)

1: Pin1
2: Pin2
3: Pin3
4: Pin4
5: Pin5
6: Pin6
7: Pin7
8: GND



- **The selectable functions for PIN 1~ PIN 6 are as follows:**

Menu Classification	Settable Values
PIN 1~6	NONE, SDI-A, SDI-B, HDMI, 16:9 MARKER, 4:3 MARKER, 15:9 MARKER, 14:9 MARKER, 13:9 MARKER, 1.85:1 MARKER, 2.35:1 MARKER, CENTER MARKER, SAFETY AREA 80%, SAFETY AREA 85%, SAFETY AREA 88%, SAFETY AREA 90%, SAFETY AREA 93%, SAFETY AREA 100%
PIN 7	POWER ON/OFF CONTROL
PIN 8	GND

05 MENU OPERATIONS

[7] NETWORK

PICTURE	DHCP	DHCP
VIDEO	IP (D)	192.168.101.156
COLOR	SUBNET	255.255.255.000
MARKER	GATWAY	192.168.101.001
WAVEFORM	PORT	10262
GPI	IP APPLY	NO
NETWORK	MAC ADDR	XX:XX:XX
AUDIO		
SYSTEM		

- **DHCP**
  - Used to activate/deactivate the DHCP function.

- **IP (D)**
  - Used to set the IP Address connected to a Monitor.

- **SUBNET**
  - Used to set the Subnet Mask connected to a Monitor.

- **GATWAY**
  - Used to set the Gateway number connected to a Monitor.

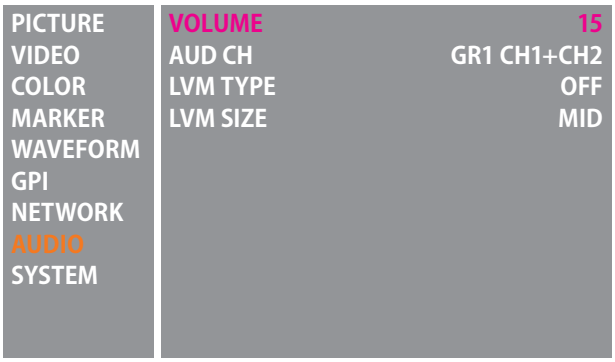
- **PORT**
  - Used to set the port number. Default value is 10262.

- **IP APPLY**
  - Use to apply changed value of IP Address, Subnet mask, Gateway and Port no.

- **MAC ADDR**
  - Used to display the MAC address.

05 MENU OPERATIONS

[8] AUDIO



- **VOLUME**
  - Used to control the audio volume. Control range is from 0 to 30 and the default value is 15.

- **AUD CH (Audio Channel)**
  - Used to set the audio channel.
  - Available ranges are GR1 CH1+CH2, GR1 CH3+CH4, GR2 CH1+CH2, GR2 CH3+CH4, GR3 CH1+CH2, R3 CH3+CH4, GR4 CH1+CH2 and GR4 CH3+CH4.

- **LVM TYPE (Audio Level Meter Type)**
  - Used to set the audio type.
  - Available options are OFF, BOTH H, LEFT H, RIGHT H, BOTH V, LEFT V and RIGHT V.

- **LVM SIZE (Audio Level Meter Size)**
  - Used to control the size of the Audio Level Meters.
  - Available modes are TINY, MID and TALL.

05 MENU OPERATIONS

[9] SYSTEM

PICTURE	DEFAULT	NO
VIDEO	USER CONFIG	USER 1
COLOR	KEY LED	YES
MARKER	SDI OUT	BY PASS
WAVEFORM	OSD DISPLAY	CONTINUE
GPI	SW UPGRADE	OFF
NETWORK	VERSION	S04.F04.H05
AUDIO	SIG	NO INPUT
SYSTEM	High Bright	YES

- **DEFAULT**
  - Used to initialize OSD values to factory default except for the value of the BACK LIGHT.

- **USER CONFIG**
  - Used to save and apply in three kinds of user configurations.
  - Available modes are USER1, USER2 and USER3.
  - All items can be assignable for each USER1, USER2 and USER3 settings.

- **KEY LED**
  - Used to control the Key Lamp on the front of the monitor.

- **SDI OUT**
  - Used to change the Throughout on the rear of the monitor to BY PASS or 12G output.
  - In BY PASS mode, the selected channel's image is output as it is.
  - In 12G signal, output signal is changed to 12G.

- **OSD DISPLAY**
  - Used to set the display time of the OSD menu.
  - Available options are CONTINUE, 3 SEC and 20 SEC.

- **SW UPGRADE**
  - Used to upgrade the firmware using the USB (Thumb drive).
  - Available options are CPU, FPGA. When CPU or FPGA is selected, only each program can be upgraded at a time.

- **VERSION**
  - Displays the current program version of the product.
  - S : Firmware / F : FPGA / H : Hardware.

- **SIG (Input Signal)**
  - Used to display the video format currently being input.

- **High Bright (LUM-430M3/550M3 only)**
  - Used to adjust the brightness of the screen.
  - YES: The brightness is set to 300nit. This mode improves the visibility especially when these monitors are used for the multiview screen.
  - NO: The brightness is set to 100nit.

06 FIRMWARE UPGRADE

[1] FIRMWARE UPGRADE

- **The USB(Thumb drive) which contains the F/W file is needed for Firmware Upgrade.**

- **Select the SW UPGRADE in the SYSTEM menu.**

1. Connect the USB to the USB Slot on the front of the monitor.
2. Select what to update among CPU / FPGA / ALL in [S/W UPGRADE].
3. When the USB connection is completed, the S/W upgrade starts and the progress displays on the bottom left side of the screen.
4. If the USB doesn't connect properly or there is no file in the specified location, the error message will be displayed on the bottom left side of the screen and the upgrade won't start.
5. In that case, check the USB or the file location and try again.

- **After USB connection, turn off and then on the monitor.**
  The upgrade will activate automatically.

07 VIDEO SUPPORT RESOLUTION

Input Signal Interfaces	Signal Format (12G SDI)	
12G-SDI single link(4k)	3840x2160 (50/59.94/60p)	YCbCr 4:2:2 10bit
	4096x2160 (50/59.94/60p)	YCbCr 4:2:2 10bit
Input Signal Interfaces	**Signal Format (6G SDI)**	
6G-SDI single link(4k)	3840x2160 (23.98/24/25/29.97/30p)	YCbCr 4:2:2 10bit
	4096x2160 (23.98/24/25/29.97/30p)	YCbCr 4:2:2 10bit
Input Signal Interfaces	**Signal Format (3G_A SDI)**	
3G-SDI single link	1920x1080 (50/59.94/60p)	YCbCr 4:2:2 10bit
	2048x1080 (50/59.94/60p)	YCbCr 4:2:2 10bit
Input Signal Interfaces	**Signal Format (3G_B SDI)**	
3G-SDI single link	1920x1080 (50/59.94/60p)	YCbCr 4:2:2 10bit
	1920x1080 (23.98/24/25/29.97/30p) (50/59.94/60I) (25/29.97/30psf)	YCbCr 4:2:2 10bit 12bit YCbCr 4:2:2 12bit YCbCr 4:2:2 10bit 12bit
	2048x1080 (23.98/24/25/29.97/30p) (25/29.97/30psf)	YCbCr 4:2:2 10bit 12bit YCbCr 4:2:2 12bit YCbCr 4:2:2 10bit 12bit
	2048x1080 (50/59.94/60p)	YCbCr 4:2:2 10bit
Input Signal Interfaces	**Signal Format (3G_A SDI)**	
3G-SDI Quad link(4k)	3840x2160(50/59.94/60p)	YCbCr 4:2:2 10bit
	4096x2160(50/59.94/60p)	YCbCr 4:2:2 10bit
3G-SDI 2-Sample Interleave Quad link(4k)	3840x2160(50/59.94/60p)	YCbCr 4:2:2 10bit
	4096x2160(50/59.94/60p)	YCbCr 4:2:2 10bit

07 VIDEO SUPPORT RESOLUTION

Input Signal Interfaces	Signal Format (HD SDI)	
HD SDI single link	1920x1080 (23.98/24/25/29.97/30p) (50/59.94/60I) (23.98/24/25/29.97/30psf)	YCbCr 4:2:2 10bit
	1280x720 (50/59.94/60P)	YCbCr 4:2:2 10bit
	2048X1080 (23.98/24/25/29.97/30psf) (23.98/24/25/29.97/30p)	YCbCr 4:2:2 10bit
HD-SDI Quad link(4k)	3840x2160 (23.98/24/25/29.97/30p)	YCbCr 4:2:2 10bit
	4096x2160 (23.98/24/25/29.97/30p)	YCbCr 4:2:2 10bit
HD-SDI 2-Sample Interleave Quad link(4k)	3840x2160 (23.98/24/25/29.97/30p)	YCbCr 4:2:2 10bit
	4096x2160 (23.98/24/25/29.97/30p)	YCbCr 4:2:2 10bit
Input Signal Interfaces	**Signal Format (SD SDI)**	
SD SDI Single Link	720x487 (59.94i)	YCbCr 4:2:2 10bit
	720x576 (50i)	YCbCr 4:2:2 10bit

07 VIDEO SUPPORT RESOLUTION

Input Signal Interfaces	Signal Format (HDMI)	
HDMI Single link	1280x720(50/59.94/60p) 1920x1080(50/59.94/60p) 1920x1080(23.98/24/25/29.97/30p, 60i/59.94i/50i)	RGB 4:4:4 8bit YCbCr 4:4:4 8bit YCbCr 4:2:2 8bit
	3840x2160 (23.98/24/25/29.97/30p)	RGB 4:4:4 8bit YCbCr 4:4:4 8bit YCbCr 4:2:2 8bit RGB 4:4:4 10bit YCbCr 4:4:4 10bit YCbCr 4:2:2 10bit RGB 4:4:4 12bit YCbCr 4:4:4 12bit YCbCr 4:2:2 12bit
	3840x2160 (50/59.94/60p)	RGB 4:4:4 8,10,12bit YCbCr 4:2:2 8,10,12bit YCbCr 4:2:0 8bit
	4096x2160 (50/59.94/60p)	RGB 4:4:4 8,10,12bit YCbCr 4:2:2 8,10,12bit YCbCr 4:2:0 8bit

08 PRODUCT SPECIFICATIONS

Specifications		LUM-550M3
LCD	Size	55″
	Resolution	3840(H) x 2160(V)
	Pixel Pitch	0.315(H) x 0.315(W) mm
	Color Depth	1.07B colors
	Viewing Angle	178°(H) / 178°(V)
	Luminance of white	700 cd/m^2
	Contrast Ratio	1,100:1
	Display Area	1209.6(H) x 680.4(V) mm
Input	1 x HDMI	HDMI V2.0 Input 1Ch (with HDCP support)
	4 x BNC	12G/3G/HD/SD SDI Input 2Ch
		3G/HD/SD SDI Input 2Ch
Output	1 x BNC	12G/3G/HD/SD SDI Output 1Ch By Pass Mode : SDI A/B Channel (Active Through Out) 12G Mode : 3840x2160 60p/59.94p/50p
Input Signal	12G-SDI	12Gb/s
	6G-SDI	6Gb/s
	3G-SDI	2.970Gb/s
	HD-SDI	1.485Gbps
	HDMI	720p/1080p/2160p
SDI Input Signal Formats	SMPTE ST2048-1	4096x2160 (50~60p)
	SMPTE ST2082-10 Mode1	3840x2160 60p/59.94p/50p (12G-SDI x 1Ch)
	SMPTE ST2081-10 Mode1	3840x2160 30p/29.97p/25p/24p*/23.98p* (6G-SDI x 1Ch)
	SMPTE ST425-5	3840x2160 60p/59.94p/50p (3G-SDI x 4Ch)
	SMPTE ST274	3840x2160 30p/29.97p/25p/24p*/23.98p* (HD-SDI x 4Ch)**
	SMPTE ST425	1920x1080 60p/59.94p/50p (3G-SDI LEVEL A) 1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (3G-SDI LEVEL B) 1280x720 60p/59.94p/50p (3G-SDI LEVEL B)
	SMPTE-274M	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p*
	SMPTE-296M	1280x720 60p/59.94p/50p
	SMPTE-259M	720x487 59.94i 720x576 50i
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
		** Not support 2 Sample Interleaved Input
HDMI Input Signal Formats	V2.0	3840x2160 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.4	3840x2160 30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.2	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode) 60p/59.94p/50p
		1280x720 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
Audio In		SDI Embedded Audio (Group, Ch Selectable)
Audio Out		External Output Port (3.5m Phone Jack)
Power		100~240V, 0.55~0.28A/ 50/60Hz
Power Consumption (Approx.)		150 Watts (Max.)
Operating Temperature		0°C to 40°C (32°F to 104°F)
Storage Temperature		-20°C to 50°C (-4°F to 140°F)
Main Body Dimensions (mm/inch)		1262x746x81.4 (49.68x29.37x3.2)
Main Body Dimensions with stand (mm/inch)		1262x794.5x245 (49.68x31.27x9.64)
Weight		35.8Kg / 78.92lbs
Basic Accessories		AC Power cord, IR Remote, Stand
Optional Accessories		-

* The specification above may be changed without notice.

08 PRODUCT SPECIFICATIONS

Specifications		LUM-550M2
LCD	Size	55″
	Resolution	3840(H) x 2160(V)
	Pixel Pitch	0.315(H) x 0.315(W) mm
	Color Depth	1.07B colors
	Viewing Angle	178°(H) / 178°(V)
	Luminance of white	500 cd/m²
	Contrast Ratio	1,100:1
	Display Area	1209.6(H) x 680.4(V) mm
Input	1 x HDMI	HDMI V2.0 Input 1Ch (with HDCP support)
	4 x BNC	12G/3G/HD/SD SDI Input 2Ch
		3G/HD/SD SDI Input 2Ch
Output	1 x BNC	12G/3G/HD/SD SDI Output 1Ch By Pass Mode : SDI A/B Channel (Active Through Out) 12G Mode : 3840x2160 60p/59.94p/50p
Input Signal	12G-SDI	12Gb/s
	6G-SDI	6Gb/s
	3G-SDI	2.970Gb/s
	HD-SDI	1.485Gbps
	HDMI	720p/1080p/2160p
SDI Input Signal Formats	SMPTE ST2048-1	4096x2160 (50~60p)
	SMPTE ST2082-10 Mode1	3840x2160 60p/59.94p/50p (12G-SDI x 1Ch)
	SMPTE ST2081-10 Mode1	3840x2160 30p/29.97p/25p/24p*/23.98p* (6G-SDI x 1Ch)
	SMPTE ST425-5	3840x2160 60p/59.94p/50p (3G-SDI x 4Ch)
	SMPTE ST274	3840x2160 30p/29.97p/25p/24p*/23.98p* (HD-SDI x 4Ch)**
	SMPTE ST425	1920x1080 60p/59.94p/50p (3G-SDI LEVEL A) 1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (3G-SDI LEVEL B) 1280x720 60p/59.94p/50p (3G-SDI LEVEL B)
	SMPTE-274M	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p*
	SMPTE-296M	1280x720 60p/59.94p/50p
	SMPTE-259M	720x487 59.94i 720x576 50i
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
		** Not support 2 Sample Interleaved Input
HDMI Input Signal Formats	V2.0	3840x2160 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.4	3840x2160 30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.2	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode) 60p/59.94p/50p
		1280x720 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
Audio In		SDI Embedded Audio (Group, Ch Selectable)
Audio Out		External Output Port (3.5m Phone Jack)
Power		100~240V, 0.55~0.28A/ 50/60Hz
Power Consumption (Approx.)		150 Watts (Max.)
Operating Temperature		0°C to 40°C (32°F to 104°F)
Storage Temperature		-20°C to 50°C (-4°F to 140°F)
Main Body Dimensions (mm/inch)		1237.8x728.5x70 (48.73x28.68x2.76)
Main Body Dimensions with stand (mm/inch)		1237.8x786.5x309.4 (48.73x31x12.18)
Weight		31Kg / 66.14lbs
Basic Accessories		AC Power cord, IR Remote, Stand
Optional Accessories		-

* The specification above may be changed without notice.

08 PRODUCT SPECIFICATIONS

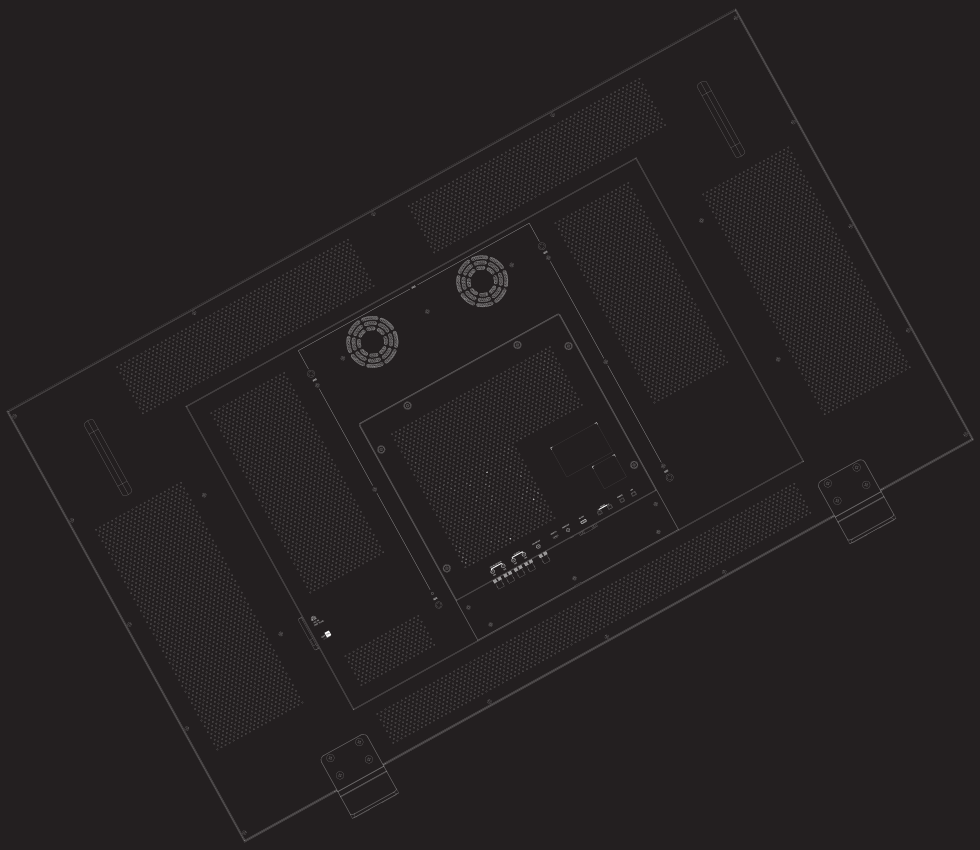
Specifications		LUM-430M3
LCD	Size	42.5"
	Resolution	3840 x 2160 (16:9)
	Pixel Pitch	0.2451 mm x 0.2451 mm
	Color Depth	10bit, 1.06 Billon colors
	Viewing Angle	178°(H) / 178°(V)
	Luminance of white	500cd/m²
	Contrast Ratio	1,000 : 1
	Display Area	941.2(H) × 529.4(V) mm
Input	1 x HDMI	HDMI V2.0 Input 1Ch
	4 x BNC	12G/3G/HD/SD SDI Input 2Ch
		3G/HD/SD SDI Input 2Ch
Output	1 x BNC	12G/3G/HD/SD SDI Output 1Ch By Pass Mode : SDI A/B Channel (Active Through Out) 12G Mode : 3840x2160 60p/59.94p/50p
Input Signal	12G-SDI	2Gb/s
	6G-SDI	6Gb/s
	3G-SDI	2.970Gb/s
	D-SDI	1.485Gbps
	HDMI	720p/1080p/2160p
SDI Input Signal Formats	SMPTE ST2048-1	4096x2160 (50~60p)
	SMPTE ST2082-10 Mode1	3840x2160 60p/59.94p/50p (12G-SDI x 1Ch)
	SMPTE ST2081-10 Mode1	3840x2160 30p/29.97p/25p/24p*/23.98p* (6G-SDI x 1Ch)
	SMPTE ST425-5	3840x2160 60p/59.94p/50p (3G-SDI x 4Ch)
	SMPTE ST274	3840x2160 30p/29.97p/25p/24p*/23.98p* (HD-SDI x 4Ch)**
	SMPTE ST425	1920x1080 60p/59.94p/50p (3G-SDI LEVEL A) 1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (3G-SDI LEVEL B) 1280x720 60p/59.94p/50p (3G-SDI LEVEL B)
	SMPTE-274M	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p*
	SMPTE-296M	1280x720 60p/59.94p/50p
	SMPTE-259M	720x487 59.94 720x487 59.94
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
		** Not support 2 Sample Interleaved Input
HDMI Input Signal Formats	V2.0	3840x2160 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.4	3840x2160 30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.2	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode) 60p/59.94p/50p
		1280x720 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
Audio In		SDI Embedded Audio (Group, Ch Selectable)
Audio Out		External Output Port (3.5m Phone Jack)
Power		100~240V, 1.3~0.6A / 50/60Hz
Power Consumption (Approx.)		96Watts (Max.)
Operating Temperature		0°C to 40°C (32°F to 104°F)
Storage Temperature		-20°C to 60°C (-4°F to 140°F)
Main Body Dimensions (mm/inch)		985 x 587 x 87.4(mm) / 38.77 x 23.11 x 3.44(inch)
Main Body Dimensions with stand (mm/inch)		985 x 636.4 x 245(mm) / 38.77 x 25.05 x 9.64(inch)
Weight		23.0kg / 50.70(lbs)
Basic Accessories		AC Power Cable, IR Remote, Stand
Optional Accessories		-

* The specification above may be changed without notice.

08 PRODUCT SPECIFICATIONS

Specifications		LUM-430M2
LCD	Size	42.5″
	Resolution	3840(H) x 2160(V)
	Pixel Pitch	0.2451 mm x 0.2451 mm
	Color Depth	10bit(D), 1.06 Billon colors
	Viewing Angle	178°(H) / 178°(V)
	Luminance of white	350cd/m²
	Contrast Ratio	1,000 : 1
	Display Area	962(H) × 554.8(V) mm
Input	1 x HDMI	HDMI V2.0 Input 1Ch
	4 x BNC	12G/3G/HD/SD SDI Input 2Ch
		3G/HD/SD SDI Input 2Ch
Output	1 x BNC	12G/3G/HD/SD SDI Output 1Ch By Pass Mode : SDI A/B Channel (Active Through Out) 12G Mode : 3840x2160 60p/59.94p/50p
Input Signal	12G-SDI	2Gb/s
	6G-SDI	6Gb/s
	3G-SDI	2.970Gb/s
	D-SDI	1.485Gbps
	HDMI	720p/1080p/2160p
SDI Input Signal Formats	SMPTE ST2048-1	4096x2160 (50~60p)
	SMPTE ST2082-10 Mode1	3840x2160 60p/59.94p/50p (12G-SDI x 1Ch)
	SMPTE ST2081-10 Mode1	3840x2160 30p/29.97p/25p/24p*/23.98p* (6G-SDI x 1Ch)
	SMPTE ST425-5	3840x2160 60p/59.94p/50p (3G-SDI x 4Ch)
	SMPTE ST274	3840x2160 30p/29.97p/25p/24p*/23.98p* (HD-SDI x 4Ch)**
	SMPTE ST425	1920x1080 60p/59.94p/50p (3G-SDI LEVEL A) 1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (3G-SDI LEVEL B) 1280x720 60p/59.94p/50p (3G-SDI LEVEL B)
	SMPTE-274M	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p*
	SMPTE-296M	1280x720 60p/59.94p/50p
	SMPTE-259M	720x487 59.94 720x487 59.94
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
		** Not support 2 Sample Interleaved Input
HDMI Input Signal Formats	V2.0	3840x2160 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.4	3840x2160 30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode)
	V1.2	1920x1080 60i/59.94i/50i/30p/29.97p/25p/24p*/23.98p* (RGB/YCbCr 4:4:4 8bpp Mode) 60p/59.94p/50p
		1280x720 60p/59.94p/50p (RGB/YCbCr 4:4:4 8bpp Mode)
		* 24p/23.97p : 60p/59.94p Frame-rate Converted Display
Audio In		SDI Embedded Audio (Group, Ch Selectable)
Audio Out		External Output Port (3.5m Phone Jack)
Power		100~240V, 1.3~0.6A / 50/60Hz
Power Consumption (Approx.)		96Watts (Max.)
Operating Temperature		0°C to 40°C (32°F to 104°F)
Storage Temperature		-20°C to 60°C (-4°F to 140°F)
Main Body Dimensions (mm/inch)		985 x 587 x 87.4(mm) / 38.77 x 23.11 x 3.44(inch)
Main Body Dimensions with stand (mm/inch)		985 x 635.6 x 309.4(mm) / 38.77 x 25.02 x 12.18(inch)
Weight		23.0kg / 50.70(lbs)
Basic Accessories		AC Power Cable, IR Remote, Stand
Optional Accessories		-

* The specification above may be changed without notice.



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