ATTACHMENT E.

- USER'S MANUAL -

TANDBERG

www.tandberg.net

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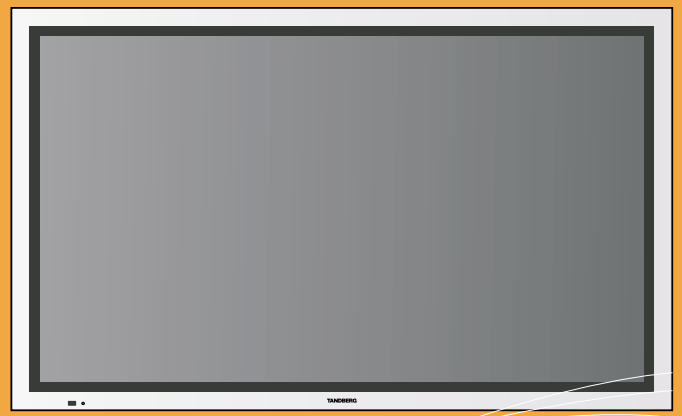
Part No. 942667020001 - 01

TANDBERG User Manual

English

TFT-LCD Color Monitor
FS-L4201C



INFORMATION TO USER :

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.This equipment generates, uses and can radiate radio frequency energy and,if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to crrent the interference by one or more of the fllowing measures:

1. Reorient/Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit difference from that to which the recerver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

CAUTION

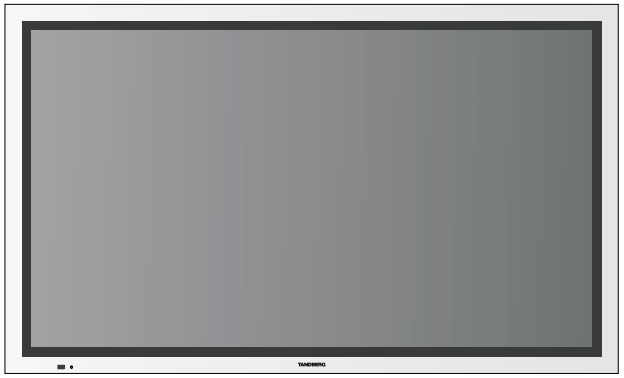
Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

Table of Contents

The lighting flash with arrowhead symbol, Within an equilateral trangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitud e to constitude a risk of electric shock to persons.

The exclamation point within an equilateral trangle is intended to alert the user to the presence of important operating and maintenance (ser vicing) instructions in the literature accompan ying the appliance.

Parts



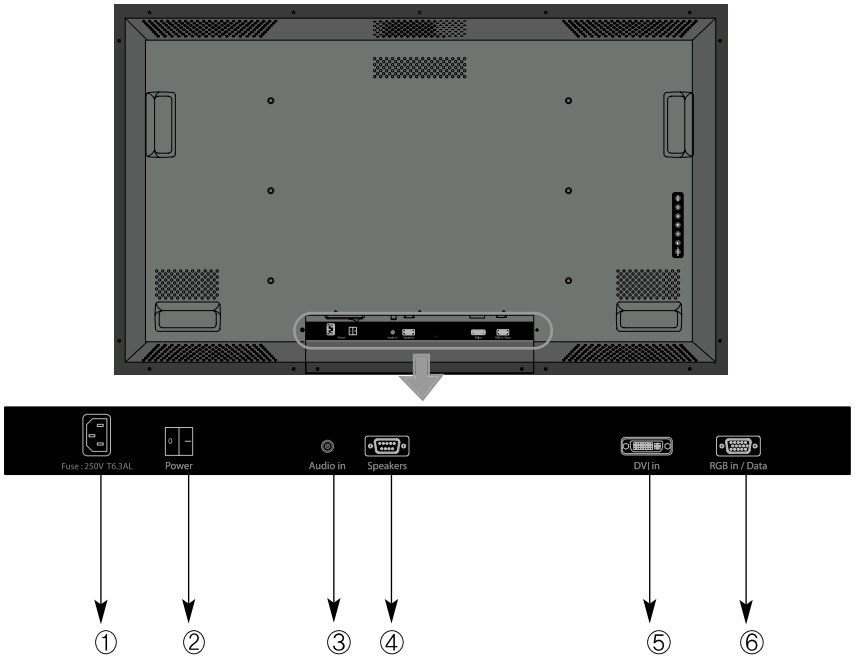
42 " LCD Monitor

User's Manual

※ This monitor do not provide any other accessaries and peripheral devices (ex,speaker and signal cable) because the Tandberg's reguest.

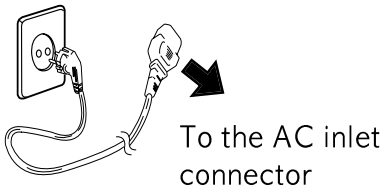
Connection to Signal Source

Basic Connection

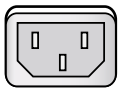


① AC Inlet.
② AC on/ off Switch
③ RCA Coaxial S/PDIF Audio input
④ 9 Pin D-Sub connector for Speaker Out
⑤ 24 Pin DVI Connector for Digital TMDS
⑥ 15 Pin D-Sub connector for Analog RGB

< Power source connection >



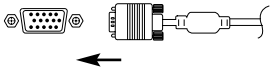
▶ AC Inlet



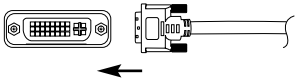
▶ AC on/off swith

< Signal cable connection>

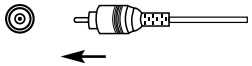
▶ D-Sub Analog(Data in)



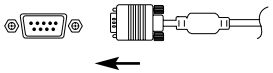
▶ DVI Digital



▶ Coaxial S/PDIF Input

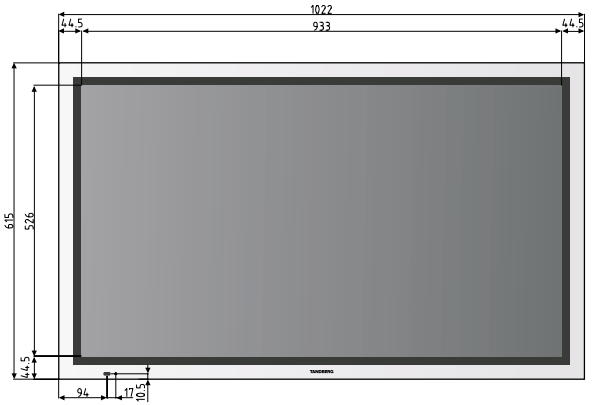


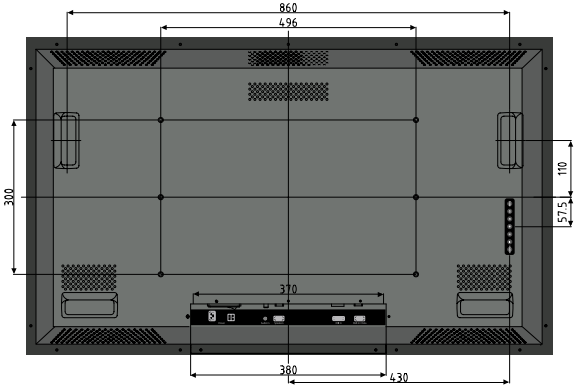
▶ Audio amp Output



1. Use 220 V or 110 V. (Free Voltage)
2. Connect monitor and Signal Source via Signal cable
3. Power on the monitor and computer.
4. Connection is finished.

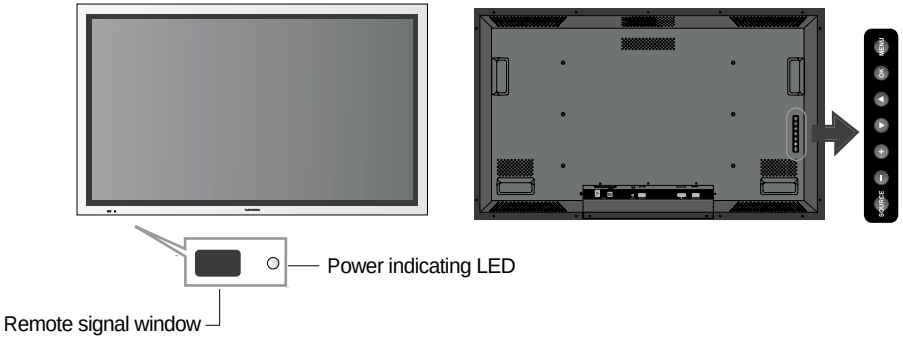
Out Drawing of product

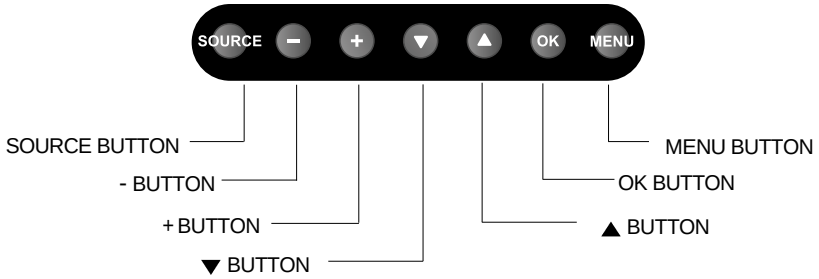




Name and Function

Front side | **Rear side**





Power Management Feature

Power management system of this monitor can not be corresponded with VESA DPMS when the display video signal is none because the specific character of Tandberg system

Status	LED Sign	Power Consumption
Normal mode	Green on	Normal Power
Stand by mode	Red on	20W or Below

Functions

◆ Remote signal wirdow

This window is for the receiving signal from remote controller

Do not hide this window.

◆ Power Indicating LED

● Green : Normal mode

● RED : Standby mode

◆ On-Screen Display (OSD) Function Button

● MENU : • With OSD deactivated, Activated to OSD menu
• With OSD activated, Exit from main menu or sub menu.

● OK : • With OSD deactivated, you can see the kind of displayed source on the right bottom side of the screen.
• With OSD activated, Enter sub menu and change each sub menu item

● UP(▲) : • With OSD deactivated, Hot key of the brightness control and increases the brightness.
• With OSD activated, move the cursor upward.

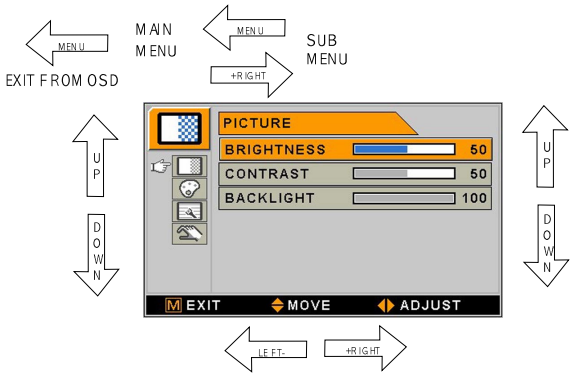
● DOWN(▼) : • With OSD deactivated, Hot key of the brightness control and decreases the brightness.
• With OSD activated, move the cursor downward.

● 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.

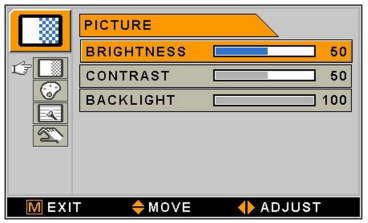
●MINUS(-) : • With OSD deactivated, Hot key of the contrast control and decreases the contrast.
• With OSD activated, decreases the adjustment of the selected function.

●SOURCE : • For the extra function, normally no need to use this button.

Adjusting OSD



PICTURE

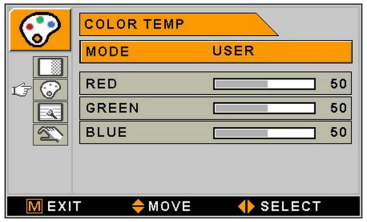


. BRIGHTNESS
Increase or decrease the brightness (Range : 0~100)

. CONTRAST
Increase or decrease the Contrast (Range : 0~100)

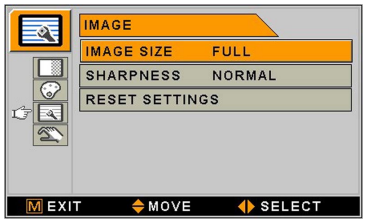
. BACK LIGHT
Increase or decrease the CCFL back light luminance (Range : 0~100)

COLOR TEMP



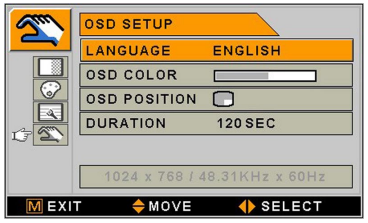
1. MODE
Change the Color mode (6500, 7200, 9300, USER)
2. RED
Red balance (Only Working with USER mode) (Range : 0~100)
3. GREEN
Green balance (Only Working with USER mode) (Range : 0~100)
4. BLUE
Blue balance (Only Working with USER mode) (Range : 0~100)

IMAGE



1. IMAGE SIZE
   Change the image size (Scaling mode) (Full,Fill aspect, 1:1)
2. SHARPNESS
   Set the sharpness of image (Softest,Softest,Normal,Sharp,Sharpest)
3. RESET SETTINGS
   Changes all OSD values to factory outgoing status.

SETUP



1. LANGUAGE
   Change the OSD language
   Korean,English,French,Spanish,German,Chinese,Japanese,Italian
2. OSD COLOR
   Adjust the OSD back ground from white opaque to half translucent.
3. OSD POSITION
   Change the OSD position (9 postions)
4. DURATION
   Adjust OSD display time
   (5, 10, 20, 30, 60, 90, 120, 180, 240 seconds)

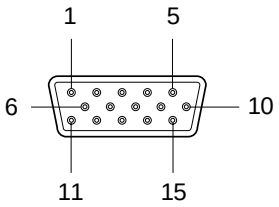
Standard Signal Table

▼ PC Supported Mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
(640 X 480)	31.5	60	25.175
(640 X 480)	37.9	72	31.5
(640 X 480)	37.5	75	31.5
(640 X 480)	43.3	85	36
(800 X 600)	31.5	50	35.4375
(800 X 600)	35.1	56	36
(800 X 600)	37.9	60	40
(800 X 600)	48.1	72	50
(800 X 600)	46.9	75	49.5
(800 X 600)	53.7	85	56.25
(1024 X 768)	48.4	60	65
(1024 X 768)	56.5	70	75
(1024 X 768)	60	75	78.75
(1280 X 768)	47.7	60	79.5
(1280 X 720)	37.5	50	74.25
(1280 X 720)	45	60	74.25
(1280 X 1024)	64	60	108
(1366 X768)	48.32	60	87.75

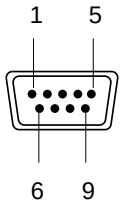
Pin assignment table of signal connector

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



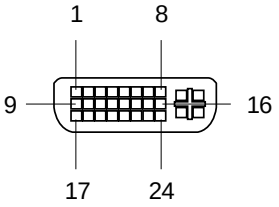
15pin D-Sub

Pin No.	Assignment
1	Ground
2	Speaker ID4
3	Speaker ID3
4	Speaker ID2
5	Speaker ID1
6	Speaker Out Left-
7	Speaker Out Left+
8	Speaker Out Right-
9	Speaker Out Right



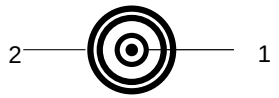
9 Pin D-sub

Pin No.	Assignment	Pin No.	Assignment
1	T.M.D.S. Data2-	13	No Connect
2	T.M.D.S. Data2+	14	No Connect
3	T.M.D.S. Data2 Shield	15	Cable Connection check
4	No Connect	16	Hot Plug Detect
5	No Connect	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 Connect	20	No Connect
9	T.M.D.S. Data1-	21	No Connect
10	T.M.D.S. Data1+	22	Cable Connection check
11	T.M.D.S. Data1 Shield	23	T.M.D.S. Clock+
12	No Connect	24	T.M.D.S. Clock-



24 Pin DVI-D

Pin No.	Assignment
1	Coaxial S/PDIF audio signal
2	Ground



RCA

Specification

Model		FS-L4201C
LCD Panel	Type	a-si TFT Active matrix
	Screen Size	106.7cm (Diagonal)
	Maximum Resolution	1366 X 768@ 60 Hz
	Pixel Range	0.681(H) mm X 0.227(V) mm
	Display Colors	16.7M (RGB 8-bit data)
	Contrast Ratio	1000 : 1
	Viewing Angle	89° / 89° / 89° / 89°
	Response Time	10 msec
	Luminance	500 cd/m²
Synchronization	Horizontal Frequency	91kHz (Max.)
	Vertical Frequency	85Hz (Max.)
Power Consumption	Maximum	300W
	standby Mode	Under 20W
Control key	Rear side	SOURCE, -,+, ▼,▲,OK,MANU
Input Signal	Video	Analog RGB DVI Digital
	Audio	S/PDIF (Coaxial)
Compatibility	Video	VGA,SVGA,XGA,WXGA
	Audio	IEC-958 S/PDIF 32kHz,44.1kHz,48kHz,96kHz
Safety Standard & EMI	Safety Standard	UL,C-TICK,EK,CCC
	EMI	CE,MIC,BSMI,FCC
Dimension	Size and Weight	1022 ×615 ×98 / 29kg

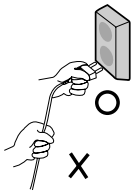
Troubleshooting

Power LED is dark. No picture.	• Check the power connection. (Refer to page 5)
Power LED is Red	• Check the signal cable or signal Source. (Refer to page 5)
Screen is not clear.	• Remove and check attaches to the signal line (Video extension cable and others) and switch on.
Display is unstable and trembling.	• Check the resolution and frequency of computer and video card, and set up again.Refer to the current monitor mode and standard signal mode table. (Refer to page 12)
Color is irregular.	• Adjust COLOR at User Mode in OSD Color Temp Menu.

Double images or 'ghosts'.	• Check the resolution and frequency of computer and video card, and set up again in reference to the current monitor mode and standard signal mode table. (Refer to page 5)
Picture is dark.	• Adjust COLOR at User Mode in OSD Color Temp Menu.

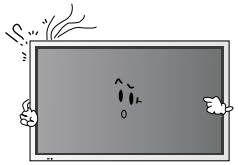
Warning

To prevent damage or loss, please read this warning carefully.

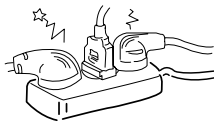


- When connecting/disconnecting the plug, pull out the plug itself, and never pull the cord to prevent fire caused by short.

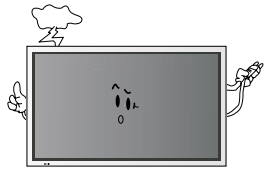
- To prevent electric shock, do not connect/disconnect the plug with wet hand.



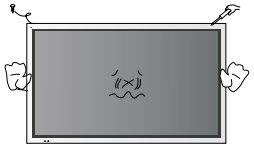
- If you see smoke or smell something burning, stop using the unit, switch off the power, pull out the plug, and then contact your local service station.



- To prevent fire, do not connect a large number of equipments in a single line.



- To prevent fire and electric shock, pull out the plug in case of thunder and lightening.



- To prevent fire and electric shock, do not try to take the monitor apart or repair it yourself. Contact your local service station or customer service center for inspection, modification or repair.