



User's Manual FP4201-MED

42-inch (107.1cm) Color LCD Display



CE

Conformity according to the Council Directive 93/42/EEC concerning Medical devices

Use this product after carefully reading this Manual and understanding the contents.

Store this manual in a safe place for future reference.

◆Carefully read this User's Manual and use the product properly. Before using it, also read "Safety Precautions."

◆If you have lost the manual, contact your Canvys representative. We will reissue a replacement manual.

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Revision History

The revision letter changes with related comments each time the document is updated.

Revision	Comment
А	Initial release of this document

Power Management

This Power Management System helps you to save energy by switching your monitor into a low-power consumption mode when it has not been used for a certain period of time. Power Management System operates with VESA DPMS compliant video card installed in your Workstation.

Canvys highly recommends setting DPMS to activate after 15 minutes of non-usage in order to optimize your displays lifetime and to avoid **Image retention damage**. We also recommend users:

Not to leave the same image or viewing frame too long in one position.

Frequently changing and moving of image and viewing frame will help to avoid Image retention (also called "Image Sticky"). Image retention is a phenomenon inherent to TFT LCD displays technology itself, and as such, the occurrence of this "ghosting" effect is considered normal operation by the LCD glass manufacturer. As a result, Canvys is not responsible for this damage and does not warrant any displays against the occurrence of Image Sticking. We strongly advise that you follow the operating recommendations listed above.

State	Normal operation	DPMS Standby	DPMS Suspend	DPMS off
Horizontal Sync	Active	Inactive	Active	Inactive
Vertical Sync	Active	Active	Inactive	Inactive
Video	Active	Blanked	Blanked	Blanked
Power Indicator	LED ON	Green Flashing (1sec interval)	Green Flashing (1sec interval)	Green Flashing (1sec interval)
Power Consumption	250W Max	Less than 17W	Less than 17W	Less than 17W

Power Management Modes

I CAUTION

Symbol Description

Caution!-This symbol alerts you to important operating considerations or a potential operating condition that could damage equipment. Refer to user's manual or operation's manual for precautionary instructions.

II CLASSIFICATION



MEDICAL EQUIPMENT WITH RESPECT TO ELECTRIC SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL60601-1 AND CAN/CSA C22.2 NO.601.1 49CG

Class I:

No applied parts

Protection against harmful ingress of water is IPX0. Not suitable for use in the presence of flammable anesthetic's or oxygen.

Mode of operation: Continuous.

III External Equipment

External equipment intended for connection to signal input / output or other connectors, shall comply with UL/EN 60601-1 for medical electrical equipment. In addition, all such combination system shall comply with the standard IEC 60601-1-1, Safety requirements for medical electrical systems. Equipment not complying with UL/EN/IEC 60601-1 shall be kept outside the patient environment, as defined on the systems standard.

IV Intended Use

The equipment is intended to be used as a component of a medical patient monitoring system.

III FCC FCC Information

FCC (U. S. Federal Communications Commission)

This equipment has been tested and found to comply with the limits for 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 unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your dealer or an experienced radio/TV technician for help.

FCC Warning:

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this monitor would void the user's authority to operate this device.

IV Precautions

• Make sure to carefully read the Operating Manual prior to using the monitor in order to properly use the monitor.

• Note that, excluding those cases where a responsibility for legal compensation is recognized, the manufacturer shall bear absolutely no responsibility for damage to this product by a customer or a third party that results from the ignoring of contents entered in this Operating Manual and mistaken use.

• Follow the instructions below for safety use of the LCD Monitor.

- To avoid electric shock, do not attempt to remove any cover or touch the inside of the monitor. Only a qualified service technician should open the monitor case.

- Do not insert metal objects or spill liquid into the LCD monitor through cabinet slots.

They may cause accident fire, electric shock or failure. If a foreign object inserted or water penetrated, unplug the AC cable and have the monitor serviced

by Canvys.

- Do not cover or block the vent holes in the case.

- Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.

- Do not touch the screen directly with your fingers. You may damage the screen, and oil from your skin is difficult to move.

- Do not apply pressure to the screen. The LCD is very delicate.
- If your LCD monitor does not operate normally, if there are any unusual sounds or smells coming from it **Disconnect AC power cord from monitor** immediately and contact Canvys for service.

V Environment

- Place the monitor on a flat and leveled surface.
- Place the monitor in a well-ventilated place.
- Keep sunlight away from monitor.
- Keep monitor away from: Overly hot, cold, humid and dusty places.
- Keep monitor away from strong magnetic fields.

Equipment Symbols

Electrical and Electronic Equipment Symbols

In addition to the equipment symbols described in your user's manual, the following symbols may appear on the monitor.

Alternating current.





European Union Declaration of Conformity.

FC

FCC. USA only. Complies with applicable US government (Federal Communications Commission) radio-frequency interference regulations.



Fragile. Handle with care.



Indicates front.



Keep dry. Protect from rain.

-10

Mercury. This product consists of devices that may contain mercury, which must be recycled or disposed of in accordance with local, state, or country laws.



ON. Power connection to the mains.



Recycled materials or may be recycled.



Stacking limit by number.



Standby or power indicator.



This way up.





This symbol indicates that the waste of electrical and electronic equipment must not be disposed as unsorted municipal waste and must be collected separately. Please contact an authorized representative of the manufacturer for information concerning the decommissioning of your equipment



ATTENTION: Consult accompanying documents.



DANGER - Shock Hazard. Dangerous voltage. To reduce the risk of electric shock, do not remove cover. Refer servicing to qualified service personnel.

Cleaning Instructions

Using a spray applicator, apply any of the approved liquids from the list below and use a soft lint free cloth to clean the screen.

- 1. Water
- 2. Windex Blue (glass surfaces only)
- 3. Mild Soap

Notice:

This monitor has been adjusted specifically for use in the region to which it was originally shipped. If the product is used outside the region, it may not operate in the specifications.

Please wait 20-40 minutes after powering on the monitor before adjusting, as it takes roughly this same amount of time for the optimum performance of the electrical parts.

The screen may have defective pixels. These pixels may appear as slightly light or dark area on the screen. This is due to the characteristics of the panel itself, and not the monitor.

The backlight of the LCD panel has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.

Do not press on the panel or edge of the frame strongly, as this may result in the display malfunction, such as the interference patterns, etc. If pressure is continually applied to the LCD panel, it may deteriorate or damage your LCD panel.

Do not scratch or press on the panel with any sharp objects, such as a pencil or pen as this may result in damage on the panel. Do not attempt to brush with tissues as this may scratch the LCD panel.

When you bring the monitor from cold temperature room into a high temperature room or when your room temperature goes up quickly from low to high, dew condensation may occur inside and outside the monitor. In this case, do not turn on the monitor. Please wait till dew condensation disappears. Otherwise it may cause some damages to the monitor.

Prolonged operation of an LCD with the same content on the same screen area may result in a form of image retention. You can avoid or significantly reduce the occurrence of this phenomenon by using a screen saver. You can activate a screen saver in the "Display Properties" window of your workstation. Canvys recommends setting screen saver activation after 5 minutes of non-usage. In case you are working with the same image or an application with static image elements for several hours continuously (so that the screensaver is not activated); change the image content regularly to avoid image retention of the static elements.

Image retention is a phenomenon inherent to TFT LCD displays technology itself, and as such, the occurrence of this "ghosting" effect is considered normal operation by the LCD glass manufacturer. As a result, Canvys is not responsible for this damage and does not warrant any displays against the occurrence of Image Sticking. We strongly advise that you follow the operating recommendations listed above.

•Do not dispose of this product with general wastes.

•Follow your local regulations or rules upon dispose of this product.

•Hg WARNING

This product consists of devices that may contain mercury, which must be recycled or disposed of in accordance with local, state, or country laws.

(Within this product, the backlight lamps in the display contain mercury.)

Application and Function Description

•Some Basic Facts

The liquid-crystal display (LCD) monitor supports the most common resolutions from 640 \times 480 (VGA) up to 1920 \times 1080 and presents sharp, low-radiation images.

With the OSD touch key on the bottom right side of the display leaves ample space on your desk for other peripheral equipment.

• Function Description

The medical flat-screen display is built into a slim and ergonomic housing. The monitor displays 16.7 million colors with a resolution of 1920 x 1080 pixels.

The signal is equivalent to the analog and digital standard signals of your PC.

After connection of the signal the flat-screen display automatically adapts, as far as possible, to the VGA signal and presents a stable and centered image. Additional display parameters, such as brightness and contrast, can be adjusted via the on-screen menu.

The equipment supplied includes the signal cables, the power supply with power cord and this user manual.

Features

•42-inch LCD display with 2 million pixels

This color LCD display has a multi-scanning function corresponding to the resolution from VGA 640 x 400 to WUXGA 1920 x 1080. This is also compliant with VESA standard display mode.

•High-intensity, high-contrast

Beautiful and clear images of the brightness of 700 cd/m² and contrast ratio of 3500:1 have been achieved. Viewing angles are the wide range of 178 degrees in both horizontal and vertical directions (CR>=10). The unit has installed our unique automatic brightness stabilizing circuit that restrains deteriorations and brightness drifts when power is turned on. Gamma curve adjustments are made by OSD. This is for various modality terminals, medical image displays for PACS^{*1}, and graphics.

Remote control port

This color LCD display has the remote control port that controls the functions of the monitor.

•Power management

This unit has loaded the power management system. The power management mode functions when either horizontal or vertical signals or both disappears, and it reduces power consumption to less than 17W.

•VESA® standard wall / arm mountings

The unit is compliant with VESA's hanging tools. The tilt stand is detachable; the unit can be set for wall-hanging or arm according to users' environment.

Note 1) PACS: Picture Archive & Communication System

Connection Method

1. Confirm that your computer is off. Then, confirm that the main switch of the color LCD monitor on the back is off.

Caution

AC Main Power supply Switch

The AC main power supply switch interrupts the AC input to the display. Placing the switch in the ON (I) position allows display to power-up, if the AC input is connected. Placing the switch in the OFF (O) position shall cause the display to power down.



2. Connect the signal cable (for PC input)

Connect the VGA connector of the monitor and the analog RGB output connector with the attached VGA cable.

Connect the DVI connector of the monitor and the digital RGB output connector with the attached DVI cable (24-pin DVI).



3. Connect Video signal Cable (for video device output)

Connect S-Video connector of the LCD monitor and an S-Video output device with the attached S-Video cable. For composite signal connect the BNC connector of the monitor and a composite video output device with the composite video cable.



4. Connect component Video connector of the LCD monitor and a component Video output device with the component video cable. Connect HDMI connector of the LCD monitor and a HDMI output device with the HDMI cable.



Adjustment Method

Names and Functions of Each Part



1 Touch key

Power ON/OFF:

- Pressing "Power" key turns on the LCD display.
- Pressing "Power" key for more than three seconds turns the power off.

OSD control:

When "Menu" key is pressed while images are on screen, OSD* will appear on screen.
 *OSD stands for on-screen-display. Its function is to display information such as characters and symbols.

• Execution of selected items and display of submenus can be performed while OSD is on screen.

Press "Enter" key: execute/ select items/ save data Source select

- Pressing "Source" key (VGA, DVI, HDMI...) changes the present source.
- (2) **POWER indicator** (Power/ Power management display)
- The indicator illuminates green when power normally on.
- The indicator illuminates orange when power management function on or no signals.
- The indicator goes out when power off.
- ③ **IR Receiver:** Receives IR signals from the remote control.
- (4) Main power supply switch: Main switch of the LCD display.

(5) AC inlet: Connect AC power cord to AC inlet (See accessory box for cable).

(6) CVBS Video input/output connector: Composite signal input. (See accessory box for cable).
 (7) Component/RGBS input/output connector: When using component input to watch a DVD, HD (High Definition) or RGBS video image. The component video connector cable is connected to this and a component output video device. (See accessory box for cable).

(8) S-Video input/output connector: S-Video signal input. (See accessory box for cable).

(9) Analog input connector VGA: Analog video signal input. The analog signal cable is plugged into this.

(1) **Digital input connector DVI:** Digital video signal input. (See accessory box for cable).

① **Digital input connector HDMI:** Digital video signal input. The provided digital signal cable is plugged into this. (See accessory box for cable).

Dontrol input connector GPIO DIN-9:

(3) Calibration connector USB: Connect with PC to calibrate Gamma curve.

Mounting

The Monitor can be mounted onto the wall or stand.

If you intend to mount the monitor on the wall, we strongly recommend that you use wall mount kits with attached M8*12mm screws and can load more than monitor weight, that you ensure it is securely and safely installed.

CAUTION:

When mounting the monitor, take care to tighten the retention screws or bolts until fully secure, but do not over tighten. Over tightening the retention screws or bolts may cause them to become stripped, rendering them useless.

Wall Mounting Installation

The Monitor has Video Electronics Standards Association (VESA) standard mounting holes tapped into the rear panel. The standard holes are M8 set at 400 mm x 200 mm or 200mm x 200mm apart.



To mount the Monitor onto the wall or stand, please follow the steps below.

Step 1: Select the location on the wall for the wall-mounting bracket.(Listed VESA)

Step 2: Carefully mark the locations of the four screw holes in the bracket on the wall

Step 3: Drill four pilot holes at the marked locations on the wall for the bracket retention screws.

Step 4: Align the wall-mounting bracket screw holes with the pilot holes.

Step 5: Secure the mounting-bracket to the wall by inserting the retention screws into the four pilot holes and tightening them.

Step 6: Insert the four monitor mounting screws provided in the wall mounting kit into the four screw holes on the real panel of the LCD Monitor and tighten until the screw shank is secured against the rear panel.

Step 7: Align the mounting screws on the monitor rear panel with the mounting holes on the bracket. **Step 8:** Carefully insert the screws through the holes and gently pull the monitor downwards until the monitor rests securely in the slotted holes. Ensure that all four of the mounting screws fit snuggly into their respective slotted holes.

Step 9: Secure the LCD Monitor by fastening the retention screw of the wall-mounting bracket.

Step 10: Secure the LCD Monitor by fastening the retention screw of the wall-mounting bracket.

Charts of OSD Adjustment Functions

The OSD chart displays the function tree and brief explanations of the functions and other adjustments have submenus under each tree.

• OSD display

Main menu display

Close the OSD screen
Return to Main Menu
Select Analog video input for Main channel
Select DVI digital video input for Main channel
Select HDMI digital video input for Main channel
Select S-video video input for Main channel
Select Composite video input for Main channel
Select Component video input for Main channel
Select R, G, B, Xs-sync video input for Main channel
Return to Main Menu
Automatic screen size/position/brightness/contrast adjustment
Adjust the backlight of the full screen by the range from 0 to 100
Adjust the black level offset for the Main channel by the range from 0 to 100
Adjust the contrast for the Main channel by the range from 0 to 100
Adjust the saturation for the Main channel by the range from 0 to 100
Adjust the hue for the Main channel by the range from 0 to 100
Adjust the sharpness for the Main channel by the range from 0 to 24
Return to Exit of Image Setting page
Adjust horizontal screen position for Main channel
Adjust vertical screen position for Main channel
Adjust the clock for the video signals for Main channel
Adjust the phase for the video signals for Main channel
* Notice: Only support for S-video & CVBS & YPbPr/PCbCr & RGBS
Return to Exit of Image Setting page
Motion adaptive De-interlacing that support Off & Normal & Adaptive
three modes
Return to Exit of Video Setup of Image Setting page
Dynamic NR mode that support Off & High & Medium & Low & Adaptive five Modes
MPEG NR mode that support On & Off two modes
Off, adaptive Low, Medium, High
Film Mode that support 3:2 & 3:2-2:2 & off & 2:2 four modes
DCDi support Off & On two modes

Color Mode Settings



• Multi-PIP Settings

Exit Re	eturn to Main Menu
PIP mode Se	elect PIP mode to Off or PIP or POP
PIP Source	
Exit Re	eturn to Exit of Multi-PIP Settings page Select
Analog VGA······ Ai	nalog video input for Sub channel Select DVI
Digital······ di	igital video input for Sub channel Select HDMI
HDMI······ di	igital video input for Sub channel Select S-
S-Video vi	ideo video input for Sub channel Select
CVBS······ Co	omposite video input for Sub channel
YPbPr/YCbCr······ Se	elect Component video input for Sub channel
RGBS Se	elect R, G, B, Xs-sync video input for Sub channel
PIP Display	
Exit Re	eturn to Exit of Multi-PIP Settings page
PIP Size	
Exit R	eturn to Exit of PIP Display of Multi-PIP Settings page
PIP Size······ A	djust the full size for Sub channel display
PIP H-Size······ A	djust the H size for Sub channel display
PIP V-Size······· Ad	djust the V size for Sub channel display
PIP Position	
Exit R	eturn to Exit of PIP Display of Multi-PIP Settings page
PIP H. Position… Ad	djust the H position for Sub channel display by the range from 0 to 100
PIP V. Position····· A	djust the V position for Sub channel display by the range from 0 to 100
-Swap Sv	wap source between Main and Sub channel

PIP Picture	
Exit	Return to Exit of Multi-PIP Settings page
Black Level······	Adjust the black level offset for the Sub channel by the range from 0 to 100
	Adjust the contrast for the Sub channel by the range from 0 to 100
	Adjust the saturation for the Sub channel by the range from 0 to 100
	Adjust the hue for the Sub channel by the range from 0 to 100
	Adjust the sharpness for the Sub channel by the range from 0 to 24
• OSD Misc.	
Exit	Return to Main Menu
- OSD Position	
Exit	Return to Exit of OSD Misc.
OSD H.Position	Adjust the H position for OSD by the range from 0 to 100
OSD V.Position	Adjust the V position for OSD by the range from 0 to 100
- Language	
Exit	Return to Exit of OSD Misc
English	Display OSD in English
Francais	Display OSD in French
Deutsch······	Display OSD in German
Italiano	
Espanol······	Display OSD in Spanish
━━ 日本語	Display OSD in Japanese
┣━━簡體中文	Display OSD in Simplified Chinese
-OSD Timer	Adjust OSD display time
Transparent.	Adjust OSD display transparent
 Management Settings 	
Exit	Return to Main Menu
- Scaling	
	Return to Exit of Management Settings page
Scaling	Support Full & 1:1 & 4:3 & 16:9 & 16:10 Screen 5 modes
	Adjust the full size for Main channel display(Must under Full scaling mode)
	· Adjust the H size for Main channel display (Must under Full scaling mode)
Vert Zoom·····	Adjust the V size for Main channel display (Must under Full scaling mode)
· · · · · · · · · · · · · · · · · · ·	On/off "Auto Adjustment" Function
	On/off "Auto Luminance System " Function
	Automatically select the signal source
Keypad Drive	
Exit-	Return to Exit of Management Settings page
	Control the touch key backlight 4~22
	Control the touch key Sensitivity 0~100
Recall	Initialize to the factory settings and delete the specify User setting you
	saved

Photos Describe the OSD Adjustment Functions

The below photos will detail introduce every menu of OSD tree and brief explanations of the functions.

Detail of Adjustment Items

ed7	1080P	H: 67.5 KHz	V: 60	. 0 Hz
	MAIN : PIP :	HDMI S-Video		
2				
	Backlight	Operation Hours : 58		

Exit

Close the Main Menu.

In addition, this page will show below messages:

(1) Information for input timing of Main channel.

(2) Indicate which source display for Main channel.

(3) Indicate which source display for Sub channel.

(4) Record how long time display for this monitor already.

Input Source Setting

You can select source for Main channel from Analog VGA, Digital, HDMI, S-video, CVBS, PbPr/ PCbCr, RGBS.



Image Settings

Adjust values of below items for Main channel. Beside Video Setup that only support on S-video

& CVBS & YPbPr/PCbCr & RGBS.



 st Notice: Video Setup will be disabled under Analog VGA or Digital source.

Exit

Return to Main Menu.

Auto Setup

When you press "Auto Setup" will show "Auto Adjusting" on the screen that do automatically adjust the size, position, brightness, contrast and the like of the screen. When first using this color display or input new timing will perform this adjustment. When "Auto Adjusting" disappear from the screen means it have finished the "Auto Setup" function.

Auto Adjusting

Black Level

Adjust the black level offset for the Main channel by the range from 0 to 100.



Contrast

Adjust the contrast for the Main channel by the range from 0 to 100.



Saturation

Adjust the saturation for the Main channel by the range from 0 to 100.



Hue

Adjust the hue for the Main channel by the range from 0 to 100.



Sharpness

Adjust the sharpness for the Main channel by the range from 0 to 24.

Sharpness		
	12	

Display

Adjust the Horizontal & Vertical position & clock & phase for Main channel.



• Exit

Return to Exit of Image Setting page.

• H.Position

Adjust horizontal screen position for Main channel by the range from 0 to 100.

• V.Position

Adjust vertical screen position for Main channel by the range from 0 to 100.

Clock

Adjust the frequency sampling rate of horizontal pixels for Main channel, to equal the video Source's value, thus minimizing artifacts of shimmering vertical lines.

* Notice: Only support on Analog VGA source.

Phase

Adjust ADC sampling clock phase for Main channel, so that the screen image appear crisp and focused.

* Notice: Only support on Analog VGA source.

Color Mode Settings

Selecting this control allows you select color temperature or gamma curve.



Exit

Return to Main Menu.

Color Temp.

Selecting this control allows you to select preset color temperature of Cool, Neutral, Warm, or User for customized red, green and blue levels.



• Exit

Return to Exit of Color Mode Settings page.

• Cool

Bluish white used for general use.

Neutral

White close to natural light mainly used for publishing trade.

• Warm

Reddish white suitable mainly for photo modifications.

• User

Selecting this control allows you to adjust the Red gain, Green gain and Blue gain individually to match personal preference.

DOT	Color Mode Settin	gs	
3	Exit	1	
	Red Gain		60
VIDEO	Green Gain		60
	Blue Gain		60

Exit

Return to Exit of Color Mode Settings page.

Red Gain

You can adjust the gain of Red by the range from 0 to 100.

Green Gain

You can adjust the gain of Green by the range from 0 to 100.

Blue Gain

You can adjust the gain of Blue by the range from 0 to 100.

Gamma

Selecting this control allows you to choose which gamma curve that you want.



• Exit

Return to Exit of Color Mode Settings page.

• Gamma 1.8 Set Gamma curve to curve 1.8

• Gamma 2.0 Set Gamma curve to curve 2.0

• Gamma 2.2 Set Gamma curve to curve 2.2

• Gamma 2.4 Set Gamma curve to curve 2.4

• Monochrome Set full screen without color.

• Calibration Set Gamma curve to calibration mode.

• DICOM

Set Gamma curve for medical standards.

• **USER MODE** Set Gamma curve for medical standards.

Multi-PIP Settings

Selecting this control allows you to adjust below items settings for Sub channel.



* Notice: PIP Display & Swap & PIP Picture only active when PIP Mode set to PIP or POP.

Exit

Return to Main Menu.

PIP mode

Select PIP mode to Off mode or PIP mode or POP mode as below:



PIP source

You can select source for Sub channel from Analog VGA, Digital, HDMI, S-video, CVBS, YPbPr/PCbCr, RGBS (Gray area are not available to choose).

Please find the below matrix to see the combinations for Main channel with Sub channel if you set to PIP mode or POP mode.

Main	Sub channel						
channel	VGA	DVI	HDMI	S-video	CVBS	YPbPr	RGBS
VGA	Х	0	0	0	0	0	0
DVI	0	Х	Х	0	0	0	0
HDMI	0	Х	Х	0	0	0	0
S-video	0	0	0	Х	0	0	0
CVBS	0	0	0	0	Х	0	0
YPbPr	0	0	0	0	0	Х	Х
RGBS	0	0	0	0	0	Х	Х

EXIT	Multi-PIP Settings	
	Exit	
	Analog VGA	
VIDEO	Digital	
	HDMI	
	S-Video	
-	CVBS	
	YPbPr/YCbCr	
2	RGBS	

PIP Display

Selecting this control allows you to adjust the size and position for Sub channel.

• Exit

Return to Exit of Multi-PIP Settings page.

PIP Size

Selecting this control allows you to adjust the size for Sub channel.



Exit

Return to Exit of PIP Display of Multi-PIP Settings page.

PIPSize

Adjust the full size for Sub channel display.

PIPHSize

Adjust the H size for Sub channel display.

PIPVSize

Adjust the V size for Sub channel display.

• PIP Position

Selecting this control allows you to adjust the position for Sub channel.



Exit

Return to Exit of PIP Display of Multi-PIP Settings page.

PIP H.Position

Adjust the H position for Sub channel display by the range from 0 to 100.

PIP V.Position

Adjust the V position for Sub channel display by the range from 0 to 100.

Swap

Swap source between Main and Sub channel.

PIP Picture

Selecting this control allows you to adjust the below items settings for Sub channel.

TDG	Multi-PIP Settings	
	Exit	
	Black Level	60
VIDEO	Contrast	50
	Saturation	60
-	Hue	60
	Sharpness	12
-		
2		

• Exit

Return to Exit of Multi-PIP Settings page.

Black Level

Adjust the black level offset for the Sub channel by the range from 0 to 100.

Contrast

Adjust the contrast for the Sub channel by the range from 0 to 100.

Saturation

Adjust the saturation for the Sub channel by the range from 0 to 100.

• Hue

Adjust the hue for the Sub channel by the range from 0 to 100.

Sharpness

Adjust the sharpness for the Sub channel by the range from 0 to 24.

* Notice: Only Sub channel support are S-video or CVBS or YPbPr/ PCbCr & or RGBS

OSD Misc.

Selecting this control allows you to adjust below items settings for OSD.

EXIT	OSD Misc.	
	Exit	
	OSD Position	
VIDEO	Language	•
	OSD Timer	30
	Transparent	•
-		
2		
10.00		

Exit

Return to Main Menu.

OSD Position

Selecting this control allows you to adjust position for OSD.



• Exit

Return to Exit of OSD Misc.

OSD H.Position

Adjust the H position for OSD by the range from 0 to 100.

• OSD V.Position

Adjust the V position for OSD by the range from 0 to 100.

Language

Selecting this control allows you to choose below languages that you want to display for OSD.



• Exit Return to Exit of OSD Misc.

• English Display OSD in English.

• Francais Display OSD in French.

• Deutsch

Display OSD in German.

• Italiano Display OSD in Italian.

• Espanol Display OSD in Spanish.

• 日本語 Display OSD in Japanese.

• 簡體中文 Display OSD in Simplified Chinese.

OSD Timer

Adjust OSD display time that support 0 & 5 & 10 & 15 & 20 & 25 & 30 OSD will not disappear if set to 0 OSD will disappear after 5 sec if set to 5 (just like that for 10 & 15 & 20 & 25 & 30)

EXIT	OSD Misc.	
	Exit	
	OSD Position	•
VIDEO	Language	•
	OSD Timer	30
	Transparent	•
70		
dia traj		

Transparent

Adjust OSD display transparent from 0 to 7 by single steps.

Management Settings

Selecting this control allows you to adjust below items settings for Main channel.



Exit

Return to Main Menu.

Scaling

Selecting this control allows you to adjust below items relate to image scaling for Main channel.



• Exit

Return to Exit of Management Settings page.

Scaling

Support Full & 1:1 & 4:3 & 16:9 & 16:10 5 modes.

• Zoom

Adjust the full size for Main channel display.

* Notice: To Support Zoom Mode, must be under full scaling mode for each source.

• Horiz. Zoom

Adjust the H size for Main channel display.

 * Notice: To Support Horiz. Zoom, must be under Full scaling mode for each source.

• Ver. Zoom

Adjust the V size for Main channel display.

* Notice: To Support Ver. Zoom, must be under Full scaling mode for each source

Auto Setup ON/OFF

Select this function to on or off "Auto Setup" Function.

Auto Source SW

Select this function to on or off "Auto Source" Function.

Keypad Drive

Control touch key pad.



• Exit

Return to Exit of Management Settings page.

• Brightness

Control the touch key backlight 4~22.

Sensitivity

Control the touch key sensitivity 0~100.

Recall

Select this function to recall all OSD adjustments to the factory default settings and delete the specify User setting you used.

Reference

DDC^{*1}

This unit has loaded a function compliant with DDC-2B, VESA* standard. The DDC function is located in 15-pin D-sub connector and 24-pin DVI-D connector. This function reads into the set data written in the color LCD display internal device in advance on start-up of Windows®95/98/Me/2K/XP or Windows®7 and sets the detailed information of the color LCD display in the system file in order to achieve Plug & Play. Data reading from the color LCD display is done through a video signal cable, which needs to be connected when Windows®95/98/Me/2K/XP or Windows®7 is on.



*1DDC (Display Data channel) and ^{*2} VESA are registered trademarks of Video Electronics Standards Association.

Power Management

This Power Management System helps you to save energy by switching your monitor into a low-power consumption mode when it has not been used for a certain period of time. Power Management System operates with VESA DPMS compliant video card installed in your Workstation.

Canvys highly recommends setting DPMS to activate after 15 minutes of non-usage in order to optimize your displays lifetime and to avoid **Image retention damage**. We also recommend users:

Not to leave the same image or viewing frame too long in one position.

Frequently changing and moving of image and viewing frame will help to avoid Image retention (also called "Image Sticky"). Image retention is a phenomenon inherent to TFT LCD displays technology itself, and as such, the occurrence of this "ghosting" effect is considered normal operation by the LCD glass manufacturer. As a result, Canvys is not responsible for this damage and does not warrant any displays against the occurrence of Image Sticking. We strongly advise that you follow the operating recommendations listed above.

State	Normal operation	DPMS Standby	DPMS Suspend	DPMS off
Horizontal Sync	Active	Inactive	Active	Inactive
Vertical Sync	Active	Active	Inactive	Inactive
Video	Active	Blanked	Blanked	Blanked
Power Indicator	LED ON	Green Flashing (1sec interval)	Green Flashing (1sec interval)	Green Flashing (1sec interval)
Power Consumption	250W Max	Less than 17W	Less than 17W	Less than 17W

Power Management Modes

Applicable Signals Timings

*The display may not work correctly with timings other than listed below.

Recommended timing

 $\circ~$: Applied timing

	Resolution		Frequency		Input Signal	Input Signal
Mode Name	Н	V	H(kHz)	V(Hz)	Analog	Digital
	640	480	31.47	59.54	0	0
	640	480	37.50	75.00	0	
VGA	640	480	37.86	72.81	0	
	640	480	43.27	85.01	0	
	800	600	35.16	56.25	0	
	800	600	37.88	60.32	0	0
SVGA	800	600	48.08	72.19	0	
	800	600	46.88	75.00	0	
	800	600	53.67	85.06	0	
	1024	768	48.36	60.00	0	0
XCA	1024	768	56.48	70.07	0	
XGA	1024	768	60.02	75.03	0	
	1024	768	68.68	85.00	0	
CYCA	1280	1024	63.98	60.02	0	0
SXGA	1280	1024	79.98	75.03	0	
UXGA	1600	1200	75.0	60.0	0	0
720 X 400	720	400	31.47	70.09	0	0
1024 X 940	1024	940	30.69	30	0	
1024 X 1024	1024	1024	31.22	25	0	
	640	480	35.0	67	0	
Мас	832	624	49.7	75	0	
	1024	768	60.2	75	0	
576/50i (PAL)			15.625	50	0	0
480/60i (NTSC)			15.734	60	0	0
576/50P			31.250	50	0	0
480/60P			31.469	60	0	0
720/50p			37.500	50	0	0
720/60p			45.000	60	0	0
1080/50i			28.125	50	0	0
1080/60i			33.750	60	0	0
1080/50p			56.25	50	0	0
1080/60p			67.50	60	0	0

Product name: 42" Color LCD Display

Items	Specifications		
LCD display device	107.1cm (42 inch) Color TFT Normally Black		
Pixel pitch	Horizontal 0.4845mm x Vertical 0.4845mm		
Display area	Horizontal 930.24mm x Vertical 523.26mm		
Pixel	1920 x 1080 pixels		
Display gradation	16.77 billion (8 bit each) x3		
Response Time	8 ms (Typ.) (Gray to Gray)		
Contrast Ratio	3500 : 1 (Typ.)		
Brightness	700 cd/m ² (Typ.) ; 550 cd/m ² (Min.)		
Standard viewing	Horizontal: 178 deg.		
angle	Vertical : 178 deg.		
	 Video signal: Analog RGB(0.714Vp-p/75Ω) Horizontal sync and composite sync signal: TTL level 2.5~5.5V (2) HDMI (19-pin HDMI) connector (3) DVI (24-pin DVI) connector compliant with DVI 1.0 (4) S-Video connector color signal: 1Vp-p/75 Ω Brightness signal: 1Vp-p/75 Ω (composite sync signal) (5) BNC connector: Composite signal: 1Vp-p/75 Ω (6) BNC connector: Component signal: Y (0.714Vp-p/75 Ω), Pb/Cb, Pr/Cr (0.35Vp-p/75 Ω) Ω) RGBS signal: R.G.B (0.714Vp-p/75 Ω) S: Sync (2-5Vp-p) 		
Temperature	OperatingStorage and TransportTemperature:10~40°C-20~60°CHumidity(non-condensation):30~75%10~90%Air pressure:700~1060hPa500~1060hPa		
Power Supply	AC100-240V~, 50/60Hz, 4-2A		
Power Consumption	Approx.250W Max. Less than 17W when power management is on.		
External dimensions	Width 1020.2mm x Height 613.2mm x Depth 120mm		
Mass	Approx. 30 kg		
International standards	UL/CUL, CE, FCC, ICES		

External Dimensions





Contact Information

Contact Information:

Technical Support and Sales – Contact TekLink via:

TekLink Website at (http://teklink.canvys.com)

Support Phone Toll Free at (800) 235-2125 Sales Phone Toll Free at (888) 735-7373

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Model: FP4201-MED