



COLOR MONITOR

Model No : CTL 5xn

USER'S MANUAL



IMPORTANT SAFEGUARDS

1. Read all of these instructions.

2. Save these instructions for later use.



3. Unplug this monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

4. Do not use attachments not recommended by the monitor manufacturer as they may cause hazards.

5. Do not use this monitor near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool, etc.



6. Do not place this monitor on an unstable cart, stand, or table. The monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance.



7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the monitor and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the monitor on a bed, sofa, rug, or other similar surface. This should never be placed near or over a radiator or heat register. This monitor should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.



8. This monitor should be operated only from the type of power source indicated on the marking label. If you are not sure of the power supplied to your home, consult your monitor dealer or local power company.



9. This monitor is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a groundingtype power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the groundingtype plug.



10. Do not allow anything to rest on the power cord. Do not locate this monitor where the cord will be abused by persons walking on it.

11. Follow all warnings and instructions marked on the monitor.



12. For added protection for this monitor during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the set due to lightning and powerline surges.

13. Do not overload wall outlets and extension cords as this can result in fire or electric shock.

14. Never push objects of any kind into this monitor through cabinet slots, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the monitor.



15. Do not attempt to service this monitor yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

16. Unplug this monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power cord or plug is damaged or frayed.

b. If liquid has been spilled into the monitor.

c. If the monitor has been exposed to rain or water.

d. If the monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore normal operation.

e. If the monitor has been dropped or the cabinet has been damaged.

f. When the monitor exhibits a distinct change in performance this indicates a need for service.



17. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

18. Upon completion of any service or repairs to this monitor, ask the service technician to perform routine safety checks to determine that the monitor is in safe operating condition.

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

NOTE: 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 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 correct the interference by one or more of the following measures :

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

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

CANADIAN DEPARTMENT OF COMMUNICATIONS COMPLIANCE STATEMENT

This digital apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Avis de conformité aux normes du Ministère des Communications du Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class A/de Class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par le ministère des communications du Canada.

The power cord is used as a main disconnect device. Disconnect the power cord before servicing.

The outlet must be installed near the monitor and must be easily accessible.

As an ENERGY STAR Partner, Daewoo Electronics Co., Ltd. has determined that this product meets the Energy Star guidelines for energy efficiency.

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INTRODUCTION

This manual explains how to correctly install, operate and get the best performance from your monitor. Please read this user's manual carefully before installing your monitor, then keep it near your monitor for quick reference.

First, please check that the contents of the carton box corresponds with the following checklist :

- i Color monitor
- i Power cord
- i Tilt/swivel stand
- i User's manual
- i Warranty Handbook
- i Warranty Registration Card

If there is any item missing or damaged, please contact your dealer. Please keep the carton box and packing materials so that you may properly store or transport your monitor.

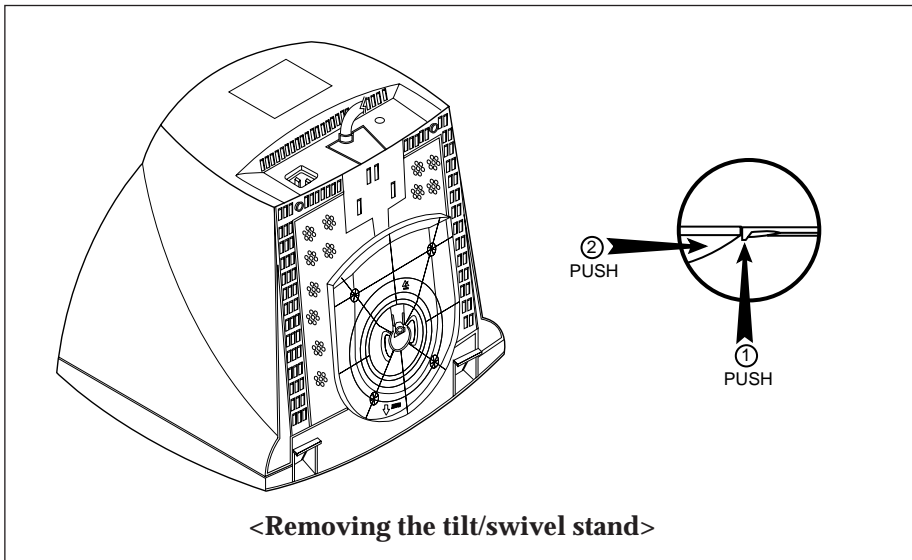
PRODUCT FEATURES

- i The convenient and user-friendly on-screen display allows for easy and accurate adjustments of horizontal and vertical screen size and position, geometry and screen color.
- i The monitor supports a safe working environment in strict compliance with the MPR₂-standard for low emissions.
- i The monitor complies with the VESA Display Data Channel (DDC) specification for “Plug & Play” compatibility. Advanced microcircuitry makes set-up and configuration fast and effortless.
- i The monitor features Advanced Color Controls for fine-tuning to meet your own personal tastes or application requirements. Use the on-screen controls to adjust the color temperature, RB gain value for the best possible screen color and intensity.
- i Just activate the higher refresh rates of the monitor to stabilize the screen and eliminate the annoying flicker that contributes to eye-strain and headaches.
- i The “borderless” full-screen display capability works under all graphic modes and provides a larger viewing area than conventional monitors, giving you a better picture with more workspace.

SETUP

INSTALLING THE TILT/SWIVEL STAND

1. Ensure that the power to the monitor is off.
2. Set the monitor face down with the underside facing you. Please be careful so as not to scratch the monitor screen.
3. Align the four hooks on the stand with the guide holes of bottom chassis of the monitor.
4. Insert the hooks into the guide holes.
5. Slide the tilt/swivel stand toward the front of the monitor until the latch locks in position.
6. Turn the monitor and the stand upright.



If you want to remove the tilt/swivel stand on the monitor, press the latch and pull the tilt/swivel stand toward the back of the monitor. Lift the stand to separate.

CONNECTING THE D-SUB SIGNAL CABLE

1. Turn off the computer and monitor.
2. Connect the 15 pin D-sub connector to the output port of the video card in your computer.
3. Tighten the screws of connector.

CONNECTING TO YOUR MACINTOSH COMPUTER

1. Turn off the computer and monitor.
2. Attach the Macintosh cable adapter to the Macintosh video card.
3. Tighten the screws on the cable adapter.
4. Connect the signal cable provided with your monitor to the other end of the Macintosh cable adapter.
5. Tighten the screws between the Macintosh cable adapter and the signal cable.

CONNECTING THE POWER CORD

1. Plug the power cord into the AC receptacle located at the back of the monitor.
2. Plug the other end of the power cord into the AC outlet.

If your power cord is PC to Monitor type, plug the other end of the power cord into the AC receptacle in the computer.

POWER MANAGEMENT SYSTEM

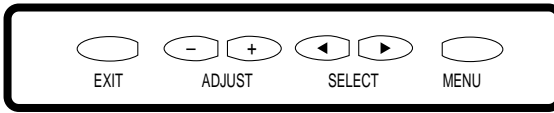
If you use the monitor with a computer which complies with the power saving program, you can set the monitor to go blank when the system has remained unused for a period of time. To specify the period or to disable this feature, set the system timeout field of the computer's system setup program or use special software for power saving. See the computer user's manual for the details of using the system setup. While the monitor is in power saving mode (blank screen), it consumes less power than normal state; the color of the power LED will indicate the state. To restore the screen image, press any key of your keyboard or move your mouse. If the signal cable is connected loosely or disconnected, the power saving feature will operate.

DISPLAY DATA CHANNEL (DDC) FOR PLUG & PLAY

If you use the monitor with a computer which complies with DDC1/2B of VESA, the Host-Video Card automatically configures itself without your intervention in a way that best fits the attached monitor.

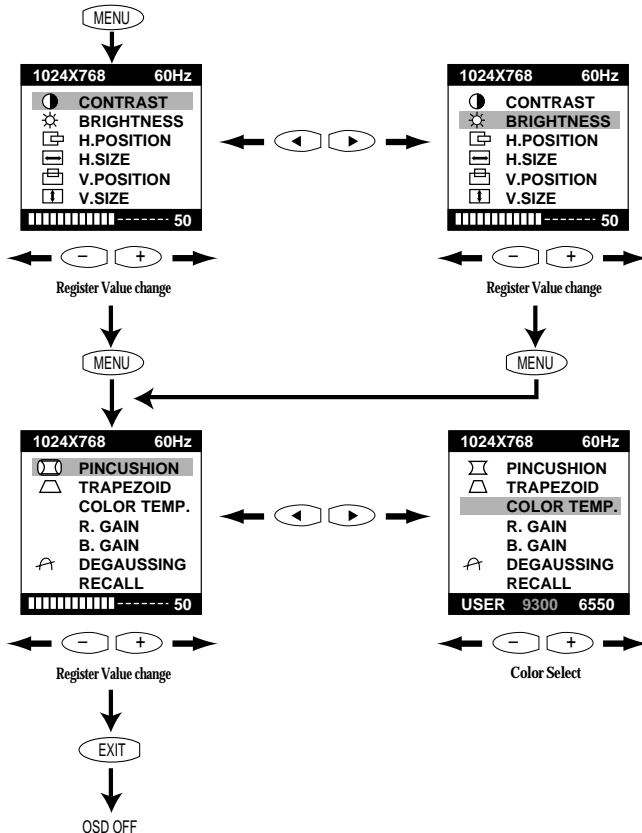
The Display Data Channel, DDC, allows the monitor to inform the host system about configuration information for optimum use of the monitor. Use of the Video Card utility is not required to match the resolutions and refresh rates of the monitor and video card.

OPERATION & ADJUSTMENT






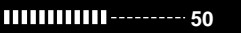








- : Launch OSD(On-Screen Display) Menus
- : Select the next function
- : Select the previous function
- : Increase the value of any selected function
- : Decrease the value of any selected function
- : Exit OSD Menus & Launch OSD Menus, when no OSD

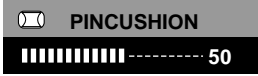














Key Process



1. OSD(On-Screen Display) Menu 1

 CONTRAST 	<p>Adjust the contrast of image, the difference between light and dark areas on the screen.</p>
 BRIGHTNESS 	<p>Adjust the brightness of the entire display.</p>
 H. POSITION 	<p>Adjust the position of the display horizontally (left or right).</p>
 H. SIZE 	<p>Adjust the display width (horizontal size).</p>
 V. POSITION 	<p>Adjust the position of the display vertically (up or down).</p>
 V. SIZE 	<p>Adjust the display height (vertical size).</p>

2. OSD (On-Screen Display) Menu 2

 <p>The image shows the 'PINCUSHION' OSD menu. It features a small icon of a rectangle with inward-curving sides. Below the title is a horizontal bar with a series of vertical lines of varying heights, representing the current setting. To the right of the bar is a dashed line followed by the number '50'.</p>	<p>Adjust the left and right margins for more convex or more concave margins. <i>f</i>Image turns to  by  . <i>f</i>Image turns to  by  .</p>
 <p>The image shows the 'TRAPEZOID' OSD menu. It features a small icon of a trapezoid. Below the title is a horizontal bar with a series of vertical lines of varying heights, representing the current setting. To the right of the bar is a dashed line followed by the number '50'.</p>	<p>Adjust the trapezoid of the screen by moving the lines inward or outward. <i>f</i>Image turns to  by  . <i>f</i>Image turns to  by  .</p>
 <p>The image shows the 'COLOR TEMP.' OSD menu. It features the title 'COLOR TEMP.' above a row of three numerical values: 'USER', '9300', and '6550'.</p>	<p>Choose different preset color temperatures or set your own customized color parameters.</p>
 <p>The image shows the 'R. GAIN' OSD menu. It features a horizontal bar with a series of vertical lines of varying heights, representing the current setting. To the right of the bar is a dashed line followed by the number '50'.</p>	<p>Adjust the red gain.</p>
 <p>The image shows the 'B. GAIN' OSD menu. It features a horizontal bar with a series of vertical lines of varying heights, representing the current setting. To the right of the bar is a dashed line followed by the number '50'.</p>	<p>Adjust the blue gain.</p>
 <p>The image shows the 'DEGAUSSING' OSD menu. It features a small icon of a circle with a plus sign inside. Below the title are two options: 'NO' and 'YES'.</p>	<p>Degauss the display and restore image quality</p>
 <p>The image shows the 'RECALL' OSD menu. It features two options: 'NO' and 'YES'.</p>	<p>Reset the screen to the Factory Preset Display settings.</p>

SPECIFICATIONS

Picture Tube	Type : 15-inch, Flat Square Tube type (14-inch, viewing area) Dot Pitch : 0.28mm, MPR ¥- Face Treatment: Non-glare/Anti-static															
Video	Input Signal : R.G.B Analog Amp. Bandwidth : 60 MHz Input Sync : TTL, separate negative/positive															
Scan Frequency	Horizontal : 30 - 54 KHz Vertical : 50 - 120 Hz															
Max. Resolution	1024 dots ; 768 lines. (at 60 Hz)															
Power Source	Free Voltage (100-240 Vac, 50/60Hz)															
Display Area	Standard Display Area : 264mm(H) ; 198mm(V) Full Screen Size : 284mm(H) ; 212mm(V)															
Power Consumption	Max. 80W															
	<table border="1"> <thead> <tr> <th>State</th> <th>Recovery Time</th> <th>Power LED</th> </tr> </thead> <tbody> <tr> <td>On</td> <td>None</td> <td>Green</td> </tr> <tr> <td>Stand-by Suspend</td> <td>3 seconds</td> <td>Green:0.5second Amber:0.5second</td> </tr> <tr> <td>Sleep</td> <td>-</td> <td>Amber</td> </tr> <tr> <td>Off</td> <td>-</td> <td>Off</td> </tr> </tbody> </table>	State	Recovery Time	Power LED	On	None	Green	Stand-by Suspend	3 seconds	Green:0.5second Amber:0.5second	Sleep	-	Amber	Off	-	Off
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Tilt / Swivel Range Tilt : 5 ; forward, 10 ; backward
Swivel : ; 45 ; leftward, rightward

Dimension 368(W) ; 394(D) ; 382(H)mm
(set with stand)

Weight (net/Gross) 27.6/31.4 lbs
12.5/14.2Kg

Operating Environment

Temperature : 10~4°C / 50~104°F
Relative Humidity : 8~80%

Storage Environment

Temperature : -20~45°C / -68~113°F
Relative Humidity : 5~90%

FACTORY PRESET TIMINGS

Mode	Resolution (dots ; lines)	H.Freq (KHz)	V. Freq (Hz)	Remark
VGA	720 ; 400	31.5	70	Non-interlaced
VGA	640 ; 480	31.5	60	Non-interlaced
VESA VGA 75	640 ; 480	37.5	75	Non-interlaced
VESA 46K	800 ; 600	46.9	75	Non-interlaced
VESA 1024/60	1024 ; 768	48.4	60	Non-interlaced
VESA 800x600 @85Hz	800 ; 600	53.7	85	Non-interlaced

This monitor has stored above-mentioned six timings in factory. You can save up to 10 modes in the user memory automatically. Please note that if you save to user memory over ten times, the first mode saved will be replaced with your eleventh mode.

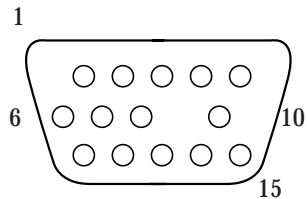
TROUBLESHOOTING

Symptom	Check
No picture.	<p>Check if POWER SWITCH and COMPUTER POWER SWITCH are in the on position.</p> <p style="text-align: center;"><math>\angle q</math></p> <p>Check if the signal cable is correctly connected to the video card.</p> <p style="text-align: center;"><math>\angle q</math></p> <p>Check if the pins of D-sub connector are not bent.</p> <p style="text-align: center;"><math>\angle q</math></p> <p>Check if the computer is in the power saving mode.</p>
POWER LED is not lit.	<p>Check if POWER SWITCH is in the on position.</p> <p style="text-align: center;"><math>\angle q</math></p> <p>Check if the power cord is correctly connected.</p>
Image is unstable.	Check if the signal cable is suitable to the video card.
Image is not centered, too small, or too large.	Adjust H&V SIZE or H&V POSITION to get the proper image.
Picture bounces or a wave pattern is present in the picture.	<p>Keep the devices that may cause electrical interference away from the monitor.</p> <p style="text-align: center;"><math>\angle q</math></p> <p>See the FCC information at the front cover of the manual.</p>
Color looks blotchy.	Operate DEGAUSSING once.
Picture is blurred.	<p>Adjust CONTRAST and BRIGHTNESS.</p> <p style="text-align: center;"><math>\angle q</math></p> <p>Operate DEGAUSSING once.</p>
Edges of available area on the screen are not straight.	Adjust PINCUSHION / TRAPEZOID.

APPENDIX

DESCRIPTION FOR D-SUB CONNECTOR

Pin	Signal
1	Red
2	Green
3	Blue
4	GND
5	GND (Self -Test)
6	GND - Red
7	GND - Green
8	GND - Blue
9	No Pin
10	GND - H.Sync
11	GND-V.Sync
12	Bi-directional Data (SDA)
13	Horizontal Sync
14	Vertical Sync (VCLK)
15	Data Clock (SCL)



*GND = Ground

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