



## PN-E421

### Key Features

- 42" Class (42-1/16" Diagonal) Screen Size w/ Thin Bezel
- Full 1920 x 1080 Res. from Digital/Analog RGB & HD Video
- 700 cd/m<sup>2</sup> Brightness; 3000:1 Contrast Ratio
- Optional Expansion Board and Signage Controller PC
- Built-in 10W per Channel Stereo Audio System
- Compatible for 24/7 use in Landscape and Portrait Modes
- 3-Year On-Site Parts/Labor/Backlight Limited Warranty



### ENERGY STAR®



#### Basic Specifications

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<b>Screen Size Class</b>	42" Class (42-1/16" Diagonal)
<b>Bezel Width</b>	19.5 mm

<b>Basic Specifications</b>	
<b>Native Display Resolution</b>	1920 x 1080
<b>Maximum Brightness</b>	700 cd/m <sup>2</sup>
<b>Landscape and Portrait Mode Operation</b>	Yes
<b>Certified for 24/7 Continuous Operation</b>	Yes
<b>Fan-Less Architecture</b>	Yes
<b>Audio</b>	10W + 10W Stereo with built in speakers
<b>LCD Type</b>	TFT Active Matrix LCD
<b>Number of Colors (approx.)</b>	1,064 Million
<b>Contrast Ratio</b>	3000:1
<b>Aspect Ratio</b>	16:9
<b>Viewing Angle</b>	178° H x 178° V (CR>=10)
<b>Active Screen Area</b>	36-5/8" W x 20-5/8" H
<b>Frame Rate</b>	60 Hz
<b>Pixel Pitch</b>	0.485 mm H x 0.485 V
<b>Video System</b>	NTSC (3.58 MHz; 4.43 MHz), PAL, PAL60, SECAM
<b>Computer Input - Video</b>	Analog RGB (0.7 Vp-p) [75-ohm], Digital (conforms to DVI 1.0 standards)
<b>Computer Input - Synchronization</b>	Horizontal / Vertical separation (TTL: positive/negative), Sync on green, composite sync (TTL: positive/negative)
<b>Computer Input - Plug &amp; Play</b>	VESA DDC2B

<b>Basic Specifications</b>	
<b>Power Management</b>	VESA DPMS, DVI DMPM
<b>Response Time</b>	8 ms (gray to gray, avg)
<b>Terminals</b>	
<b>PC/AV Video Input</b>	Analog mini D-sub 15-pin. DVI-D 24-pin HDCP Compatible (requires optional PN-ZB01); Analog 5-BNC (requires optional PN-ZB01; analog RGB and component are menu selectable).
<b>PC/AV Audio Input</b>	3.5 mm mini stereo jack
<b>Video Input</b>	Composite Video - BNC (requires optional PN-ZB01)
<b>S-Video Input</b>	5-Pin DIN (requires optional PN-ZB01)
<b>Component Video</b>	BNC (Y, Cb/Pb,Cr/Pr) (requires optional PN-ZB01; component video and analog RGB are menu selectable).
<b>HDMI™</b>	Yes - compatible for both PC and AV components
<b>Audio (AV)</b>	RCA pin (L/R) x 2 (requires optional PN-ZB01)
<b>Computer Output</b>	DVI-D 24-pin (HDCP compatible, PC/AV signal; requires optional PN-ZB01)
<b>Audio Line Output</b>	RCA pin (L/R) - selectable fixed or variable line output
<b>Speaker Output</b>	10W + 10W Stereo (6-ohms; requires optional PN-ZB01)
<b>LAN Port</b>	RJ-45 (requires optional PN-ZB01)

<b>Terminals</b>	
<b>RS-232C</b>	D-sub 9-pin
<b>Power Output Connector</b>	Yes - 19V
<b>Functions</b>	
<b>Screen Adjustment</b>	Auto (Clock, Phase, H-POS/V-POS) / Manual
<b>Gain Control</b>	Auto (Black level, Contrast) / Manual
<b>Digital Scaling (expansion)</b>	YES (VGA/SVGA/XGA/SXGA -> 1920 x 1080)
<b>Digital Scaling (compression)</b>	1920 x 1200, 1600 x 1200
<b>Main User Adjustments</b>	Clock, Phase, H-POS/V-POS, Black level, Contrast; Color temp (15 steps preset + 5600K/9300K + User setting); Color mode (Standard/sRGB/Vivid); Gamma (1.8/2.0/2.2/2.4/User setting); Brightness, Volume, Audio (Treble/Bass/Balance), OSD-POS; Picture Adjustment (Tint, Color Intensity) [PC/AV mode]; R/G/B/Y/M/C independent adjustment [AV mode]
<b>Information</b>	Model No., Serial No. etc.
<b>Real Time Clock Setting</b>	Yes
<b>Scheduling Function</b>	YES (Time, Day of the week)
<b>All Reset</b>	Yes
<b>Reset</b>	Screen/Picture/Audio adjustment setting, etc.
<b>Adjustment Lock</b>	YES (incl. Power button)
<b>Daisy Chain (DVI-D)</b>	Optional (PN-ZB01): max. 5 units (HDCP compliant)

<b>Functions</b>	
<b>Enlarge</b>	Yes
<b>Frame Width Adjustment</b>	Yes
<b>PinP / PbyP</b>	YES (PinP : 12 steps)
<b>Power On Delay</b>	1-60 seconds (with 1 second interval)
<b>Power On Delay</b>	Yes
<b>Power On Delay</b>	No
<b>Self Adjust</b>	YES (PC Analog Input)
<b>Log Save / Output</b>	Yes
<b>Temperature Control</b>	Yes
<b>Hardware Diagnosis</b>	Yes
<b>Monitor Control Software Support</b>	Yes
<b>Web Browser Setting (LAN)</b>	Optional (PN-ZB01)
<b>E-Mail Notification</b>	Optional (PN-ZB01)
<b>SNMP</b>	Optional (PN-ZB01)
<b>Overscan Setting (AV Input)</b>	Yes
<b>Image Size Change Function</b>	Yes
<b>Resolution Change Function (PC analog)</b>	Yes
<b>RS-232C Communication Speed Change</b>	Yes
<b>Conversion of Stereo Audio to Monaural</b>	Yes
<b>Selection of Audio Input per image input</b>	Yes
<b>Internal / External Speaker Select</b>	Optional (PN-ZB01)

<b>Power</b>	
<b>Power Consumption</b>	225W; 195W (without audio input)
<b>Standby Power Consumption</b>	2.0W (standby mode in Standard), 0.8W (standby mode in Low Power)
<b>Power Source</b>	100 - 240V AC, 50/60 Hz
<b>Weight &amp; Dimensions</b>	
<b>Dimensions</b>	
<b>Product Dimensions (wxhxd) (inches)</b>	38-5/16" (W) x 4-15/16" (D) x 22-5/16" (H)
<b>Package Dimensions (wxhxd) (inches)</b>	43-5/16" (W) x 10-13/32" (D) x 27-23/32" (H)
<b>Weight</b>	
<b>Net Product Weight (lbs.)</b>	48.5 lbs.
<b>Shipping Weight (lbs.)</b>	61.7 lbs.
<b>Additional Specifications</b>	
<b>Price (MSRP)</b>	\$1795.00
<b>UPC</b>	74000046931
<b>Tuner</b>	None
<b>Operating Temperature</b>	0°C - 40°C
<b>Operating Humidity</b>	20% to 80% RH (no condensation)
<b>Storage Temperature</b>	-4 ~ 140° F (-20 ~ 60° C)
<b>Limited Warranty</b>	3-Year on-site. Covers parts, labor and backlight in both landscape and portrait mode operation.
<b>Storage Temperature</b>	UL 60950, FCC Class A

<b>Additional Specifications</b>	
<b>ENERGY STAR® Qualified</b>	Yes
<b>Mounting Configuration</b>	VESA (6 points), 200 mm (7-7/8") pitch, M6 screws or VESA (4 points), 200 mm (7-7/8") pitch, M6 screw
<b>Remote Control</b>	Yes (wireless remote plus wired RJ-45 and RS-232C) (RJ-45 requires optional PN-ZB01)
<b>Included Accessories</b>	3-wire (grounded) power cord (approx. 10'), remote control with batteries (AAA x 2), CD-ROM, operation manual, stand hole protection cover x 2, vertical sticker (operation panel), vertical sticker (logo), blank sticker, cable clamp x 2
<b>Optional Input/Output Interface Board</b>	Yes - PN-ZB01. Easily attaches to rear of display and adds DVI-D input/output, 5-BNC analog RGB input, composite video input, component video input, S-video input, stereo audio (RCA) input x 2, RJ-45 LAN display control, stereo speaker output (10W x 2, 6-ohms). UPC: 074000046986
<b>Optional Signage Controller</b>	Yes - PN-TPC1. Compact signage controller PC easily attaches to rear of display. Permits all-in-one digital signage package.
<b>Compatible with SDSS™ Sharp Digital Signage Software (optional)</b>	Yes. SDSS delivers content program creation, registration, scheduling and distribution of pre-scheduled information on Sharp PN series displays. Operates easily with user-friendly interface
<b>Also Available</b>	PN-E421P – Same as PN-E421 with integrated protective acrylic overlay (Special Order)

Product specifications and design are subject to change without notice.

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