



Philips
large display

107cm (42")
multimedia
WXGA

420WN6QS

excellent and robust display solutions

Excellent and robust, the network-controlled Philips 420WN6 LCD monitor provides a reliable and multi-function solution with Philips leading display technology that guarantees your message gets out to the public crystal clear.

Less management effort for maximum productivity

- Multiple displays from a daisy chain to show uniform content
- Remote Management and Configuration via RS232

Better front of screen experience

- Motion adaptive deinterlacing for razor sharp motion images
- 3D combfilter effectively delivers better picture quality
- Wide format WXGA 1366 x 768 resolution for sharper display
- Adaptive brightness intensifier technology
- Ready to display SDTV, EDTV and HDTV formats

Great convenience

- Input connectors: CVBS, S-video, SCART, YPbPr, and RF (TV input)
- Zoom function to enable tiled matrix application
- Support high-bandwidth digital content protection decryption
- Split screen for dual video/PC display
- Displays PC data while viewing video or TV in a window

PHILIPS

Highlights

Loop through

Multiple screen daisy chain is a system that effectively distributes audio and/or visual content from a single source to an array of monitors in various locations within a site.

Remote Management:: RS232

Remote Management allows the user to control and adjust the displays remotely via the RS232 protocol. Using CEC commands, you are able to have full control over all the displays in your signage network at any time.

Motion adaptive deinterlacing

Motion adaptive deinterlacing employs a smart deinterlacing algorithm that first detects the video source type and then removes flickers and sharp, 'saw-toothed' edges in the interlaced video to obtain stable and razor sharp images.

3D combfilter

The 3D comb filter separates brightness and color signals better in 3D domain to eliminate cross-color, cross-luminance and dot-crawl distortion - all of which detract from your viewing pleasure. The 3D digital comb filter performs field-by-field comparisons of the television image to accurately separate the color from the black-and-white information

and remove both horizontally and vertically hanging dots, as well as dot crawl. The result is a razor sharp image.

WXGA 1366 x 768 resolution

The wide format of XGA resolution LCD panel is capable of displaying 1366 x 768 pixels; WXGA allows monitors to be non-interlaced to ensure a better display performance and accurate color display effect.

AI technology

Adaptive brightness intensifier technology significantly improves a display device's contrast ratio by enlarging the dynamic range of luminance displayed on LCD TV for darker displays of black and brighter display of white.

Versatile TV Format Ready

A display device ready to display standard definition television, extended definition television and high definition television signals, which are commonly used by TV systems in the world.

Versatile connectivity

A variety of format choices in connecting video or audio devices.

Zoom function for tiling

The zoom function divides a screen into various zones (2x2, 3x3, 4x4, 1x5). The user can enlarge the image in any one of the zones on a single monitor or put it to work with multiple display devices to build a screen array or monitor/TV wall.

HDCP

An HDCP-enabled TV decrypts protected content transmitted from a set top box: To prevent piracy, digital audio-visual content is protected by a high-bandwidth digital content protection (HDCP) system designed to protect transmissions between an HDCP transmitter - the set top box - and an HDCP receiver, the TV. After the transmitter verifies the TV is licensed to receive HDCP content, it transmits encrypted content to the television; and the TV decrypts and displays the content.

Picture by Picture

PBP splits a screen in two parts for the simultaneous display from a PC graphic in one half and video content in another.

Picture in Picture

PIP enables the viewing of a small television or video window at a selected location in a full-screen display.



Specifications

Picture/Display

- LCD panel type: 1366 x 768 pixels, Anti-glare polarizer
- Panel Size: 42" / 106.7cm
- Pixel pitch: 0.227 x 0.681 mm
- Brightness (nits): 500 nit
- Contrast ratio (typical): 1100:1 (with dynamic contrast ratio on)
- Display colors: 16.7 M
- Viewing angle: @ C/R > 10
- Viewing angle (H / V): 178 / 178 degree
- Response time (typical): 8 (grey to grey) ms
- White Chromaticity, 5700K: x = 0.328 / y = 0.344
- White Chromaticity, 6500K: x = 0.313 / y = 0.329
- White Chromaticity, 9300K: x = 0.283 / y = 0.297
- Maximum Resolution: 1366 x 768 @ 60Hz
- Optimum resolution: 1360 x 768 @ 60Hz
- Factory Preset Modes: 12 modes
- Horizontal Scanning Frequency: 30 - 63 kHz
- Vertical Scanning Frequency: 56 - 75 Hz
- sRGB
- Aspect ratio: 16:9
- Picture enhancement: Motion adaptive de-interlacing, 3D Combfilter, Picture in Picture, Picture by Picture, Progressive scan

Connectivity

- AV input: Audio (L/R) x1, Audio (L/R) for YPbPr x1, Composite (CVBS) x1, Component (YPbPr) x1, SCART x1, S-video x1, 75 ohm RF (TV) x1
- AV output: Audio (L/R) x1, Composite (CVBS) x1, Ext 3.5 mm jack x1
- PC: 3.5 mm PC audio input x1, DVI-D with HDCP, VGA-in D-Sub 15HD, VGA-out D-Sub 15HD
- RS232

Convenience

- Detachable Audio: 10W RMS x 2 Stereo Speaker
- User convenience: Loop through (daisy chain), Automatic Brightness Control, Automatic Overheat Warning, On-screen Display
- Child Protection: Parental Control
- Closed caption: CC full text
- Monitor Controls: Left/Right, Menu (OK), Power On/Off, Up/Down, Input select
- OSD Languages: English, French, German, Italian, Spanish, Simplified Chinese
- Plug & Play Compatibility: sRGB, Windows 98/ME/2000/XP
- Regulatory approvals: CE Mark, C-Tick, FCC-B, UL, CSA, MPRII, NUTEK, TÜV/GS

- Screen Format Adjustments: Zoom
- Software: Virtual surrounding sound
- Teletext: 10 pages (EU,AP)
- VESA Mount: 100 x 100 mm

Accessories

- Included accessories: AC Power Cord, DVI-D cable, Monitor base, Remote Control, Speakers (L/R), VGA cable
- Optional accessories: Protective Cover
- User Manual

Dimensions

- Dimensions (with base) (H x D): 680 x 300 mm
- Width (with speakers): 1272 mm
- Dimensions (w/o base & speakers) (W x H x D): 1052 x 644 x 150 mm
- MTBF: 50,000 hrs
- Relative humidity: 5% - 90%
- Temperature range (operation): 5°C to 35°C
- Temperature range (storage): 0°C to 60°C
- Weight: 35 kg

Power

- Complies with: NUTEK
- Consumption (On mode): 140 W (PC), 220 W (TV)
- Consumption (Off Mode): < 3 W
- Power LED indicator: Operation - Blue, Stand by/sleep - Amber
- Power supply: Built-in, 90-264 VAC, 50/60 Hz

Supported Display Resolution

Computer formats

Resolution	Refresh rate
640 x 480	60, 75Hz
720 x 400	70Hz
800 x 600	60, 75Hz
1024 x 768	60, 75Hz
1280 x 768	60Hz

Video formats

Resolution	Refresh rate
480i	60Hz
480p	60Hz
576i	50Hz
576p	50Hz
720p	50, 60Hz
1080i	50, 60Hz

Tuner/Reception/Transmission

- TV system: NTSC, PAL, SECAM



Issue date 2022-05-10

Version: 1.0.4

12 NC: 8639 000 16497
EAN: 87 10895 91387 4

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