

Panasonic

ideas for life

32-inch (80cm) diagonal LCD display
TH-32LHD7EK/BK (Black)
TH-32LHD7ES/BS (Silver)



32-inch (80cm) diagonal LCD display
TH-32LHD7EK/BK
 (Black)



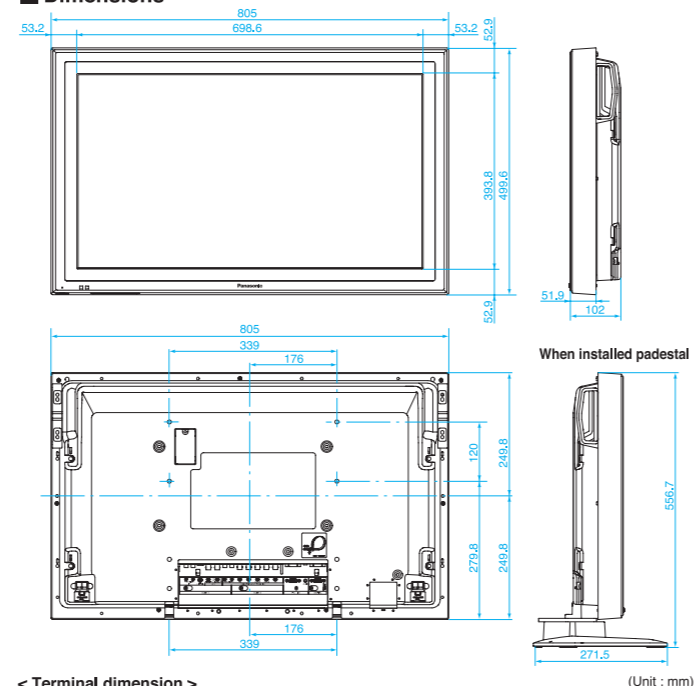
32-inch (80cm) diagonal LCD display
TH-32LHD7ES/BS
 (Silver)

Specifications

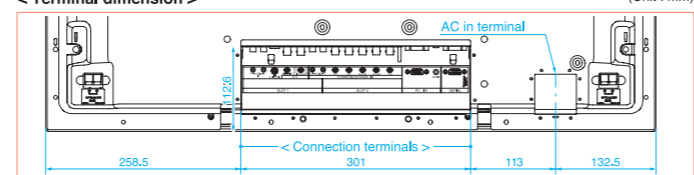
TH-32LHD7EK/BK/ES/BS	
Power Source	AC 220 — 240 V AC, 50/60 Hz
Power Consumption	165 W Power off condition : 0.4 W Stand-by condition : 0.8 W (STANDBY SAVE ON) 1.0 W (STANDBY SAVE OFF)
Speakers	16 W (8 W + 8 W) (max. output)
LCD Display panel	a-Si TFT active matrix Viewing angle : Horizontal 170° Vertical 170° (C/R ≥ 10) 16.9 aspect ratio
Contrast Ratio	800:1
Screen size	697.7 mm (W) x 392.3 mm (H)
Diagonal	800.4 mm
Number of pixels	1,049,088 (1,366 (W) x 768 (H) [4,098 x 768 dots])
Response time	14-msec
Operating condition	Temperature : 0°C — 40°C Humidity : 20 % — 80 % (Non condensation)
Dimensions	805 mm (W) x 499.6 mm (H) x 102 mm (D) (exclusive of protruding portion)
Weight	17 kg
Material	Front: Styrene plastic (PS+PPE), Back cover: Metal
EMC Regulations	EN55022 Class B, EN55024, EN55013, EN55020, EN61000-3-2, EN61000-3-3
Connection terminals	
Standard terminal board	<ul style="list-style-type: none"> • VIDEO OUT (BNC) : 1 V [p-p] (75-ohm) • VIDEO IN <ul style="list-style-type: none"> • BNC : 1 V [p-p] (75-ohm or high impedance : Auto-switching) • S2 VIDEO (MINI DIN 4PIN) Y : 1 V [p-p] (75-ohm) C : 0.286 V [p-p] (75-ohm) • AUDIO IN L/R (RCA PIN JACK x 2) : 0.5 V [rms] (high impedance) • COMPONENT/RGB <ul style="list-style-type: none"> • Y/G (BNC) : 1 V [p-p] (75-ohm) with sync • Pb · Pr/Cb · Cr (BNC) : 0.7 V [p-p] (75-ohm) • R/B (BNC) : 0.7 V [p-p] (75-ohm) • AUDIO IN L/R (RCA PIN JACK x 2) : 0.5 V [rms] (high impedance)
Fixed specifications	<ul style="list-style-type: none"> • PC IN (Mini D-sub 15-pin) : XGA : Multi scanning *Corresponding DDC1/2B * Horizontal scanning frequency 15 kHz — 110 kHz Vertical scanning frequency 48 Hz — 120 Hz (Simple indication when display dot exceed XGA standard signal.) • Y/G : 1 V [p-p] (75-ohm) with sync • Pb · Pr/Cb · Cr : 0.7 V [p-p] (75-ohm) • R/B : 0.7 V [p-p] (75-ohm) • HD, VD : 1.0 V — 5.0 V [p-p] (high impedance) • AUDIO (M3 JACK) L/R : 0.5 V [rms] (high impedance) • SERIAL : EXTERNAL CONTROL TERMINAL (D-sub 9-pin), RS-232C (Female) • SPEAKER TERMINAL (6-ohm)

*The speaker rating is for one unit. *TH-32LHD7EK/BK/ES/BS has carrying handles.

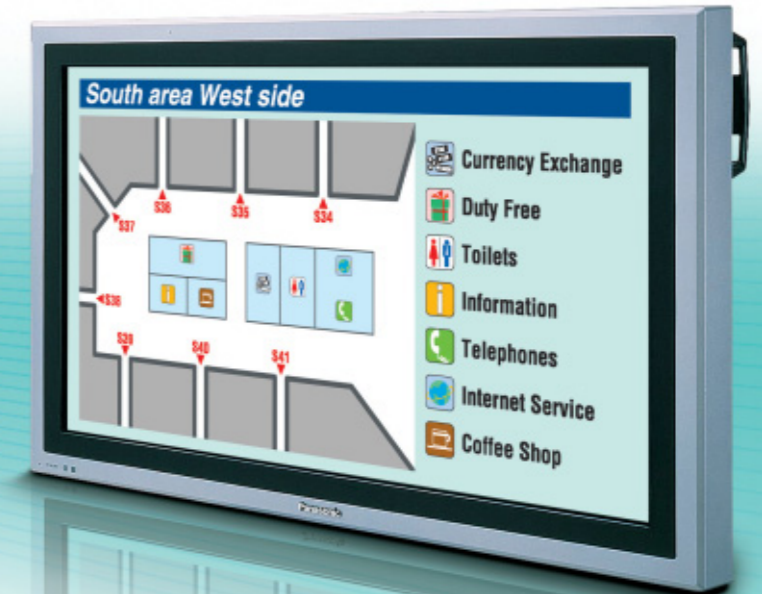
Dimensions



< Terminal dimension >



Cautions : This drawing is not to scale.



•TH-32LHD7ES/BS



•TH-32LHD7EK/BK

Versatile information display and flexible installation options

Introducing New Commercial-Use LCD Displays

Panasonic

Have assembly and installation done by a qualified electrician.
 Simulated pictures on screen.
 Design and specifications are subject to change without notice. Printed in Japan

EU05SL-01

•Photo of LCD screens show simulated image.

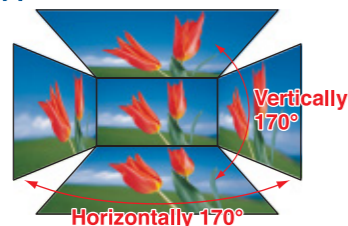
Offering excellent picture quality, functionality and expandability. Introducing LCD displays that will satisfy all your needs.

Quality

The WXGA-compatible panel and an array of high-picture-quality technologies deliver the sharp, detailed images essential for information display applications.

WXGA-Compatible Panel with Approx. 3.15 Million Pixels

Supporting the high-definition WXGA standard, this 1,366 x 768 pixel LCD panel achieves excellent brightness of 500 cd/m² with high contrast of 800:1 and can display 16.77 million colours. The combined capabilities provide vibrant, finely nuanced images even in brightly lit rooms. The viewing angle of 170° in both horizontal and vertical directions ensures superior legibility over a wide area.



Approximately 60,000 Hours* of Beautiful Images

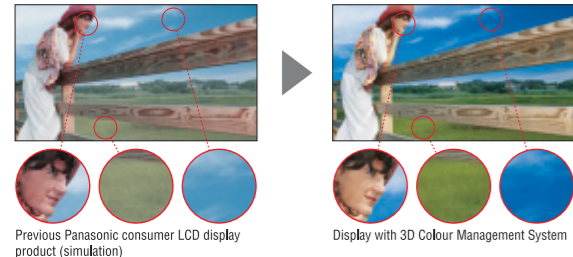
The backlight has a service life of up to approx. 60,000 hours,* so you can enjoy stunningly beautiful images for a very long period of time.

* Estimate of amount of time until screen brightness decreases to half the original level. Calculated based on an ambient temperature of 25°C and continuous operation with the brightness set at STANDARD.

Vibrant Colours and Natural Skin Tones — 3D Colour Management System

3D Colour Management System is a new correction process that works in a three-dimensional colour matrix (hue, saturation, and brightness) rather than the conventional two-dimensional colour difference plane. By correcting hue and brightness independently and providing finer control, this process delivers vibrant colours and natural skin tones.

Note: The default setting for the 3D Colour Management System is OFF.



Previous Panasonic consumer LCD display product (simulation)

Display with 3D Colour Management System

Utility

The Full Range of Convenient Utilities You'd Expect in a Display for Commercial Applications.

Two Different Images on One Screen — Dual Picture Mode

You can simultaneously display images from any two different kinds of AV sources connected. Or, adding one of the optional terminal boards lets you display images from two of the same type of image source, such as two PCs or two DVD players. This function allows you to take full advantage of the LCD's large screen.

*Changing the display mode or switching between full-screen and sub-screen pictures is simple using the remote control.



Single picture Picture-And-Picture mode splits the screen in half and shows different pictures on each half.



Picture-In-Picture mode superimposes a small sub-screen picture over a full-screen picture. Picture-Out-Picture mode displays a small picture on the right side of the screen.

Rapid 14-msec Response Time for Crisp Moving Images with No Blurring

The extremely fast response time of 14 msec means that moving images appear sharp and clear, with virtually no afterimages even in scenes showing extremely rapid movement.

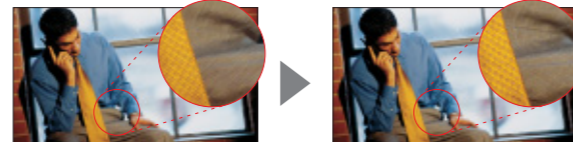


Previous Panasonic consumer LCD display product (simulation)

Image rendered using rapid movement display technology

Better Vertical Resolution — Active I/P Conversion

The Active I/P (Interlace/Progressive) Conversion system detects slow movements more precisely by increasing the range for detecting moving-picture and still-picture pixels. This reduces I/P conversion noise that often occurs when reproducing tiny movements, thereby producing crisper images while raising the vertical resolution in interlaced images.



Previous Panasonic consumer LCD display product (simulation) (Noise is visible at diagonal edges.)

Display with Active I/P Conversion

Other Functions for Enhanced Picture Quality

- **Mach Enhancer** for more natural edge correction
- **Digital Cinema Reality***¹ for faithful reproduction of film source material.
- **C.A.T.S. (Contrast Automatic Tracking System)***² for automatic control of the display brightness to match the ambient illumination level.
- **Adaptive Contrast AGC***³ for emphasised average brightness with extended white levels.

Notes : *1. The Digital Cinema Reality function is initially turned off by default. *2. C.A.T.S. (Contrast Automatic Tracking System) is initially turned off by default. *3. The Adaptive Contrast AGC is initially turned off by default. *Pictures showing comparisons with previous Panasonic products are simulated images for explanatory purposes only.

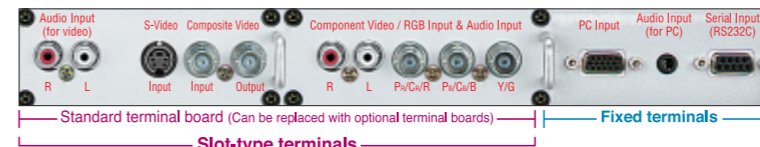
Expansion

Multi-Function Slots and an extensive selection of Optional Terminal Boards make flexible customisation of the display a snap.

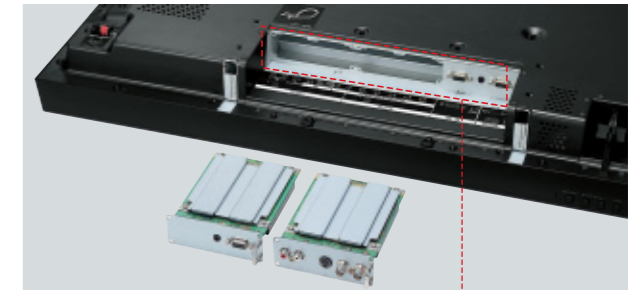
Multi-Function Slots to Facilitate Customisation of Capabilities

In addition to the fixed input interface, the Panasonic LCD has two interchangeable slots that let you add different combinations of optional terminal boards. This gives you the flexibility to add digital or analogue capabilities, as necessary, and to customise your system for specific needs.

Standard terminals



The characters in red are added for explanation.



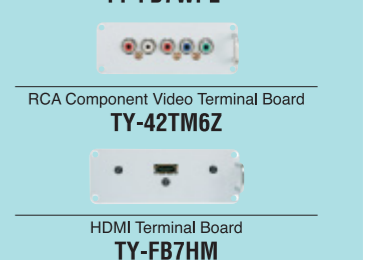
Multi-Function Slots on this Model

This model comes with the standard terminal boards mounted in slots 1 and 2. You can remove the standard boards and mount one or two optional boards.



Optional Terminal Boards

For detailed information on optional terminal boards, refer to the relevant Panasonic plasma display catalogue.

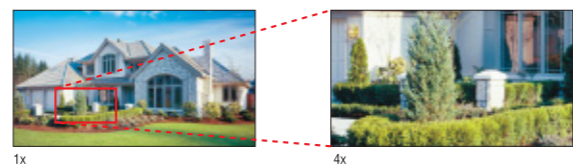


*TY-FB7WPE board only compatible in slot 1.

Up to 4x Enlargement of Image Zones — Digital Zoom

This function lets you enlarge a portion of an image by up to four times normal size and display it on the full screen. Use this function to give your presentations greater impact.

* Digital Zoom does not work in Dual Picture mode. Images of SXGA resolution or higher from a PC or RGB source may not enlarge correctly. Some degradation occurs when images are enlarged.



Energy-Saving Functions

A broad range of environment-friendly functions help minimise energy consumption.

- **DPMS (Display Power Management Signaling)** Power is automatically turned on or off in response to a sync signal from the PC connected to the built-in PC input terminal.
- **Auto Power Off** When you're using a device connected to the multi-function slots, the display panel goes into standby mode after about 10 minutes if no sync signal is received.
- **Power Save Mode** Reduces the display's brightness.
- **Standby Power Save Mode** Reduces power consumption when on standby. (Start-up may take a few moments once the display is in this mode.)

Additional Utility Functions

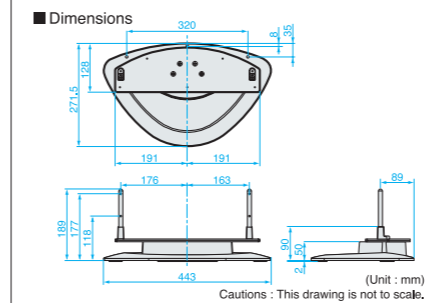
- **OSD menus in 8 languages.**
- **Carrying Handles** (removable) on back of the display unit makes placement and repositioning easy.
- The display features a noise-suppressing **silence design**.

Options

•Pedestal

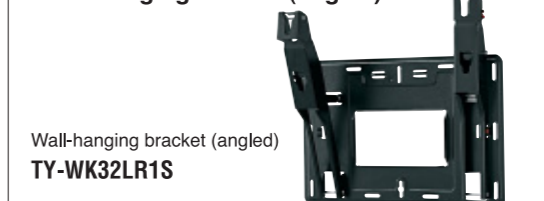


Pedestal TY-ST32L7-K (Black) TY-ST32L7-S (Silver)

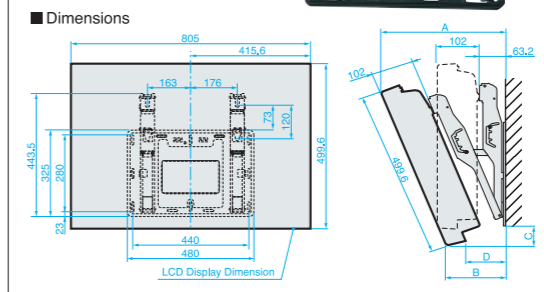


(Unit : mm) Cautions : This drawing is not to scale.

•Wall-hanging bracket (angled)



Wall-hanging bracket (angled) TY-WK32LR1S



(Unit : mm) Cautions : This drawing is not to scale.

•Detachable Stereo Speakers



Detachable Stereo Speakers TY-SP32L7W-K (Black) TY-SP32L7W-S (Silver)

Specifications		
	TY-SP32L7W-K	TY-SP32L7W-S
Weight	1.9kg	
Dimensions	102 (W) x 500(H) x 102 (D) mm	
Configuration	2-way, 3-speaker	
Rated input	8W	
Rated impedance	6Ω	
Environment	Temperature: 0°C – 40°C Humidity : 20 – 80% (Must be no condensation)	
Accessories	•Mounting bracket •Bracket mounting screw •Sponge •Speaker cable *The speaker rating is for one unit.	

*To install the LCD display, it is necessary to use our optional dedicated fixture (sold separately). *Design and specifications are subject to change without notice.