

PT-**LB30NT**E

PT-**LB30**E

Micro Portable XGA LCD Projector

3000 lm XGA



The World's Lightest 3,000-Lumen Projectors



- High power and portability

 - Ultra-lightweight: 2.5 kg (5.5 lbs)*2
- Daylight View technology
 - 150% improvement in image performance*3
- Vivid colours in a bright room
- Auto operation with ambient light sensor (ALS)
- High-speed data transfer
- Flexible 16-window index style
- Simple, user-friendly settings

Quick operation

- 2-second speed start
- One-touch auto setup with digital keystone correction
- Direct power off

Daylight View Technology

150% Improvement in Image Performance



Daylight View technology significantly improves image performance. It achieves a 150% improvement in image performance and significantly boosts colour perception in bright rooms such as conference rooms and classrooms.*1*2

Vivid Colours in a Bright Room

Panasonic's unique Daylight View technology greatly improves colour perception in bright rooms. Pale colours are divided into six basic colour components (red, green, blue, yellow, cyan and magenta) for more precise control. Daylight View achieves a superb level of image performance that produces less of a difference between PC display images and projected images.

Auto Operation with Ambient Light Sensor

The top panel of the unit is equipped with an ambient light sensor (ALS). The ALS detects changes in the ambient light intensity and optimises colour compensation in four steps according to the environment. The Daylight View mode also provides white balance adjustment settings for both fluorescent and incandescent lamps to match the room lighting.

The Daylight View Process



- •1 In comparison with our product. Measurements taken at the five main patches of the GretagMacbeth colour chart, under typical meeting room light conditions of 400 lux with a screen size of 80 inches.
- *2 The Daylight View effect may vary depending on screen size, screen gain, and surrounding brightness.

Easy Wireless Projection (PT-LB30NTE)



High-Speed Data Transfer

The IEEE 802.11b/q-compliant wireless LAN function enables high-speed data transfer.*4 In Live mode and Multi Live mode, the content of the PC screen is projected with the same smooth image motion as you

get with a wired connection. The motion also flows naturally in PowerPoint animations. Plus, the function combines with an original environ-

Movie Files

Wireless PC Motion/Sound Streaming Wireless Manager Mobile

Edition 2, an original application software for wireless presentations, is supplied. This software makes it easy to use a variety of wireless functions. In Motion Streaming mode, moving-image files*3 can be sent completely wireless, together with audio, from the hard disk of a PC. There's no need to connect an external video source. Just set up the PC somewhere in the room and immediately start into an effective presentation using both moving images and sound.

Extended Index Style:

This style projects images from up to sixteen PCs as

small windows. Using the

projector's remote control,

you can select any one of

the index windows and display it on the main win-

dow or on a full screen.

16 Thumbnails

mentadaptive dispersion algorithm to make moving pictures in Motion Streaming





In Multi Live mode, a single projector unit can receive data from multiple PCs and display their images simultaneously on its multi-window screen. The projection style can be selected from Four Window, Index and Extended Index. It is also possible to send images from a single PC to multiple projector units.*5



Simple, User-Friendly Settings



We have simplified the process for installing Wireless Manager ME 2 and setting up a PC for a wireless presentation. Just insert the CD-ROM into the PC, and many of the settings are made automatically. When the presentation is finished. Wireless Manager restores all PC settings to their original state, so the PC is ready to reconnect to your company LAN. When connection is not possible, a detailed error message is displayed to help solve the problem quickly.

Other Wireless Features

- · Projector control/status monitoring capability via an Internet browser
- Automatic connection to registered projector units
- Follows the Advanced Encryption Standard (AES), which has been adopted as an official U.S. Government standard
- · Wireless shutter function
- · One-shot mode
- PowerPoint page up/down operation using the supplied remote control



*3 Supports ASF, WMV, AVI, MPEG4 and MPEG1/2 movie formats. Copyright protection measures prevent wireless projection of DVD sources

By building the wireless function into the projector, we were able to eliminate the need for a wireless card and keep the appearance of

*4 The maximum data transfer speed is 30 frames per second (fps). This speed differs depending on the PC's performance and environment. *5 Up to eight units



Quick Operation

2-Second Speed Start

Speed Start slashes the time it takes to get your presentation under way. The image appears within two seconds after you press the power button. Behind this breakthrough is Panasonic's high-precision lamp and lamp power supply—an advantage made possible by our advanced production technology.

One-Touch Auto Setup with Digital Keystone Correction

This function assures quick and easy setup. The projector handles the basic image adjustments, from phasing to vertical and horizontal position. The built-in gravity sensor detects the projector's angle relative to the floor and corrects for vertical keystone distortion accordingly.

Direct Power Off

When the presentation is completed, Direct Power Off lets you disconnect the power cable and move the projector right away*6 because the cooling fan keeps operating until the lamp is cooled.



*6 The projector cannot be placed into a bag until the cooling fan stops operating.

Rear View

More Valuable Features

- · Short-throw zoom lens
- Anti-theft features: User password, control panel lock and text superimposing
- · Projector Al
- Index Window
- · Auto power off
- Two RGB inputs
- RGB 2 IN can be switched to RGB 1 OUT for loop-through monitoring
- Three audio inputs (RGB 1, RGB 2, and Video/S-Video)
- Audio monitor out terminal
- Auto Search
- · Automatic input signal detector
- HDTV compatibility
- Full compatibility with sRGB colour space for accurate colour reproduction (in natural mode)
- Picture mode selection (standard/dynamic/ natural)
- Blackboard mode allows you to project images onto an ordinary classroom or conference room blackboard



For more convenience, the supplied wireless remote control gives almost all function, including input source selection and audio monitor out volume control.

- 3x digital zoom
- Freeze
- · Shutter function for image/sound muting
- Selectable 17-language on-screen menu (English, French, German, Spanish, Italian, Korean, Russian, Chinese, Japanese, Swedish, Norwegian, Danish, Portuguese, Polish, Hungarian, Czech, Thail
- Discrete S-Video and video inputs allow connection of two DVD/video sources at a time
- Ceiling mountable (using optional bracket)
- Lamp power high/low selection
- Temperature warning indication
- Lamp replacement warning indication



Ecology-Conscious Design I

Panasonic meticulously works to minimise environmental impact in the product design, production and delivery processes, and in the performance of the product itself over its life cycle. The PT-LB30 Series reflects the following ecological considerations.

- · Lead-free solder is used to mount components to the printed circuit boards.
- No halogenated flame retardants are used in the cabinet.
- No styrofoam is used in the packing materials.
- Lead-free glass is used for the lens.
- The packing case and operating manual are made from recycled paper.

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High Power and Portability

he PT-LB30NTE at only 2.6 kg (5.7 lbs.) and the PT-LB30E at 2.5 kg (5.5 lbs.) each pack a wealth of advanced Panasonic technology into a small, lightweight body. In fact, they are the world's lightest projectors to offer 3,000 lumens of brightness.

Panasonic's innovative Daylight View technology achieves a 150% improvement in image performance and significantly boosts colour perception in bright rooms.

Starting with the wireless motion and sound streaming capability of the PT-LB30NTE, both projectors pack an array of powerful functions into a compact, lightweight body.

Only **2.6 kg/2.5 kg**



PT-LB30NTE PT-LB30E More than 4.0 kg

Conventional

3,000-lumens

projectors



The PT-LB30NTE and PT-LB30E employ a newly developed optical engine that features an aspherical lens system for higher focusing precision. Together with a high-power UHM™ lamp, it allows the PT-LB30NTE and PT-LB30E to deliver crisp, bright images.

Set yourself free.



High-power 220-W UHM™ Iamp

Wireless Motion/Sound Streaming

PT-LB30NTE

Wireless XGA Projector









(i) (i) (ii)

Vivid Presentations Anywhere

PT-LB30E

Mobile XGA Projector

3000 lm





Power supply 100-240 V AC, 50/60 Hz 300 W (Approx. 4 W in standby Power consumption mode with fan stopped)

Amps 3.5 A-1.8 A

LCD panel 4:3 aspect ratio, micro lens array 0.8° (20.32 mm) diagonal Panel size Display method Transparent LCD panel (x 3, R/G/B)

Drive method Active matrix

786,432 (1,024 x 768) x 3, total of 2,359,296 pixels

Pixel configuration Stripe

Manual zoom (1:1-1:1.2), manual Lens focus, F 1.7–1.8, f 24.0–28.8 mm

220 W UHM™ lamp Lamp Full colour (16,777,216 colours) Colours

Brightness 3,000 lumens Uniformity

Contrast

Scanning frequency

Horizontal: 15-91 kHz, RGB Vertical: 50-85 Hz

480i (525i): fn 15.75 kHz; fv 60 Hz **YP_BP_R** 576i (625i): fH 15.63 kHz; fv 50 Hz

400:1*1 (full on/full off)

480р (525р): fн 31.5 kHz; fv 60 Hz 576p (625p): f_H 31.25 kHz; f_V 50 Hz 720p (750p): f_H 45 kHz; f_V 60 Hz 1080i (1125i): fн 33.75 kHz;

fv 60 Hz

1080i (1125i): fн 28.125 kHz;

fv 50 Hz

NTSC, NTSC4.43, PAL-M, PAL60: S-Video/Video fH 15.75 kHz: fv 60 Hz PAL, SECAM, PAL-N: fh 15.63 kHz;

fv 50 Hz

Projection size 33-300 inches/838-7,620 mm

diagonally Throw distance 1.1 m-10.8 m (3.7 -35.5)

Optical axis shift 6:1 (fixed) Keystone correction range

Vertical: approx. +30° 17 languages: English, French, On-screen menu

German, Spanish, Italian, Korean, Russian, Chinese, Japanese, Swedish, Norwegian, Danish, Portuguese, Polish, Hungarian,

Czech. Thai

Installation Front/rear ceiling/desk (menu selection)

Built-in speakers 4 x 3 cm x 1 (oval), 1.0 W (monaural) output power

Terminals

RGB1 IN

D-sub HD 15-pin x 1 R, G, B: 0.7 Vp-p, 75 ohms, Sync RGB signal

on green: 1.0 Vp-p, 75 ohms HD/SYNC, VD: TTL (positive/negative

polarity compatible)

Y: 1.0 Vp-p (including sync signal), YP_BP_R signal 75 ohms; PB, Pr. 0.7 Vp-p, 75 ohms

RGB2 IN/RGB1 OUT D-sub HD 15-pin x 1 (input/output selectable using on-screen menu)

RGB signal R, G, B: 0.7 Vp-p, 75 ohms, Sync on green: 1.0 Vp-p, 75 ohms

HD/SYNC, VD: TTL (positive/negative polarity compatible)

YP_BP_R signal Y: 1.0 Vp-p (including sync signal), 75 ohms; PB, PR: 0.7 Vp-p, 75 ohms RCA pin x 1, 1.0 Vp-p, 75 ohms VIDEO IN

Mini DIN 4-pin x 1, S-VIDEO IN

Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms AUDIO IN

RCA (L, R) x 1, 0.5 Vrms (for VIDEO/S-VIDEO) RGB AUDIO IN M3 (L, R) x 2, 0.5 Vrms AUDIO OUT

M3 (L, R) x 2, 0-0.5 Vrms (variable)

SERIAL Mini DIN 8-pin x 1 (RS-232C) Power cord length 2 m (6'7")

Cabinet material Moulded material (ABS/PC)

Dimensions (W x H x D) 327 x 75.8 x 233 mm

(12-27/32" x 2-31/32" x 9-5/32")

Weight

PT-LB30NTE 2.6 kg (5.7 lbs.) PT-LB30E 2.5 kg (5.5 lbs.) Operating environment

0°-40°C (32°-104°F) Temperature Humidity 20%-80% (no condensation)

Remote Control Unit Power supply

Operation range*2

3 V DC (button battery x 1)

Approx. 7 m (23 feet) when operated from directly in front of the signal receptor

Dimensions (W x H x D)

40 x 86 x 6.5 mm

(1-9/16" x 3-3/8" x 1/4") 18 g (0.6 oz.) (including a battery) Weight

Wireless LAN (PT-LB30NTE)

Standard IEEE802.11b/g Modulation

IEEE802.11b Direct sequence spread spectrum

(DS-SS) system

IEEE802.11g Orthogonal frequency division multiplex (OFDM) system

Transmission system

CCK (11/5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps) IEEE802.11b

IEEE802.11q 64-QAM (54/48 Mbps), 16-QAM (36/24 Mbps), QPSK (18/12 Mbps),

DPSK (9/6 Mbps)

Transmission speed

IEEE 802.11b 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps IEEE 802.11g 54 Mbps, 48 Mbps, 36 Mbps,

24 Mbps, 18 Mbps, 12 Mbps,

9 Mbps, 6 Mbps Operation range*2 Approx. 30 m (98'5") 2,412 MHz-2,472 MHz

Frequency range Channels 1-13 ch

Supplied Accessories

- · Card remote control
- · Lithium battery for remote control
- · Power cord
- · RGB signal cable
- · Carrying bag
- Software CD-ROM (PT-LB30NTE)

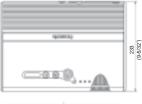
Optional Accessories

ET-LAB30 Replacement lamp unit ET-PKB30 Ceiling mount bracket

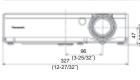
ET-RM300 Full-function wireless remote control **ET-ADSER** Serial adapter (DIN 8-pin/D-sub 9-pin)

*2: Operation range differs depending on the environment

Dimensions



Unit: mm / inch





Projection Distance.

| Diagonal image size (4:3 aspect ratio) Distance to screen min. Height from the edge of screen to center of lens 33" / 0.84 m / 2.7" - 1.1 m / 3.6 7 cm / 2.8" 40" / 1.02 m / 3.3" 1.2 m / 3.9" 1.4 m / 4.6 8 cm / 3.1" 50" / 1.27 m / 4.2" 1.5 m / 4.9" 1.7 m / 5.6 11 cm / 4.3" 60" / 1.52 m / 4.9" 1.8 m / 5.9" 2.1 m / 6.9" 13 cm / 5.1" 70" / 1.78 m / 5.8" 2.1 m / 6.9" 2.5 m / 8.5" 15 cm / 6.3" 80" / 2.03 m / 6.7" 2.4 m / 7.9" 2.8 m / 9.2 17 cm / 6.7" 90" / 2.29 m / 7.5" 2.7 m / 8.9" 3.2 m / 10.5" 19 cm / 7.5" 100" / 2.54 m / 8.3" 3.0 m / 9.8" 3.5 m / 11.5" 21 cm / 8.3" 120" 3.05 m / 10.0" 3.6 m / 11.8" 4.3 m / 14.1" 25 cm / 9.8" 150" / 5.8 m / 16.7" 6.4 m / 15.1" 5.4 m / 17.7" 32 cm / 12.6" 200" / 5.08 m / 16.7" 7.6 m / 24.9" 9.0 m / 29.5" 53 cm / 20.9" 300" / 7.62 m / 25.0" 9.1 m / 29.9" 10.8 m / 35.4" 63 cm / 24.8" | | | | |
|--|----------------------|--------------------|---------------|-------------------|
| min. max. to center of lens 33 / 0.84 m / 2.7' - 1.1 m / 3.6 7 cm / 2.8' 40 / 1.02 m / 3.3 1.2 m / 3.9' 1.4 m / 4.6 8 cm / 3.1' 50 / 1.52 m / 4.9' 1.5 m / 4.9' 1.7 m / 5.6 11 cm / 4.3' 60 / 1.52 m / 4.9' 1.8 m / 5.9' 2.1 m / 6.9' 13 cm / 5.1' 70 / 1.78 m / 5.8 2.1 m / 6.9' 2.5 m / 8.5 15 cm / 6.3' 80 / 2.03 m / 6.7' 2.4 m / 7.9' 2.8 m / 9.2 17 cm / 6.7' 90 / 2.29 m / 7.5' 2.7 m / 8.9' 3.2 m / 10.5' 19 cm / 7.5' 100 / 2.54 m / 8.3' 3.0 m / 9.8' 3.5 m / 11.5' 21 cm / 8.3' 120 / 3.81 m / 12.5' 4.6 m / 15.1' 5.4 m / 17.7' 32 cm / 12.6' 200 / 5.08 m / 16.7' 6.1 m / 200 7.2 m / 23.6' 42 cm / 16.5' 250 / 6.35 m / 20.8' 7.6 m / 24.9' 9.0 m / 29.5' 53 cm / 20.9' | | Distance to screen | | |
| 33' 0.84 m 2.7' - 1.1 m 3.6' 7 cm 2.8' 40' 1.02 m 3.3' 1.2 m 3.9' 1.4 m 4.6' 8 cm 3.1' 50' 1.27 m 4.2' 1.5 m 4.9' 1.7 m 5.6' 11 cm 4.3' 60' 1.52 m 4.9' 1.8 m 5.9' 2.1 m 6.9' 2.5 m 8.5' 15 cm 6.3' 80' 2.03 m 6.7' 2.4 m 7.9' 2.8 m 9.2' 17 cm 6.7' 90' 2.29 m 7.5' 2.7 m 8.9' 3.2 m 10.5' 19 cm 7.5' 100' 2.5 m 8.3' 3.6 m 11.8' 4.3 m 14.1' 25 cm 9.8' 3.5 m 14.1' 25 cm 9.8' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5' 3.5 | (4:3 aspect ratio) | | | |
| 40' 1.02 m 3.3' 1.2 m 3.9' 1.4 m 4.6' 8 cm 3.1' 50' 1.27 m 4.2' 1.5 m 4.9' 1.7 m 5.6' 11 cm 4.3' 60' 1.52 m 4.9' 1.8 m 5.9' 2.1 m 6.9' 13 cm 5.1' 70' 1.78 m 5.8' 2.1 m 6.9' 2.5 m 8.5' 15 cm 6.3' 80' 2.03 m 6.7' 2.4 m 7.9' 2.8 m 9.2' 17 cm 6.7' 90' 2.29 m 7.5' 2.7 m 8.9' 3.2 m 10.5' 19 cm 7.5' 100' 2.54 m 8.3' 3.0 m 9.8' 3.5 m 11.5' 21 cm 8.3' 120' 3.05 m 10.0' 3.6 m 11.8' 4.3 m 14.1' 25 cm 9.8' 3.5' 3.5 m 14.1' 25 cm 9.8' 3.5' 3 | | min. | max. | to center of lens |
| 50' 1.27 m 4.2' 1.5 m 4.9' 1.7 m 5.6' 11 cm 4.3' | 33°/ 0.84 m / 2.7° | - | 1.1 m / 3.6 | 7 cm / 2.8° |
| 1.8 m / 5.9 2.1 m / 6.9 13 cm / 5.1 | 40°/ 1.02 m / 3.3° | 1.2 m / 3.9 | 1.4 m / 4.6 | 8 cm / 3.1° |
| T0' 1.78 m 5.8 2.1 m 6.9 2.5 m 8.5 15 cm 6.3 | 50°/ 1.27 m / 4.2° | 1.5 m / 4.9° | 1.7 m / 5.6° | 11 cm / 4.3° |
| 80 / 2.03 m / 6.7 | 60°/ 1.52 m / 4.9° | 1.8 m / 5.9° | 2.1 m / 6.9° | 13 cm / 5.1° |
| 90' | 70°/ 1.78 m / 5.8° | 2.1 m / 6.9 | 2.5 m / 8.5° | 15 cm / 6.3° |
| 100' 2.54 m 8.3 3.0 m 9.8 3.5 m 11.5 21 cm 8.3 120' 3.05 m 10.0 3.6 m 11.8 4.3 m 14.1 25 cm 9.8 150' 3.81 m 12.5 4.6 m 15.1 5.4 m 17.7 32 cm 12.6 200' 5.08 m 16.7 6.1 m 20.0 7.2 m 23.6 42 cm 16.5 250' 6.35 m 20.8 7.6 m 24.9 9.0 m 29.5 53 cm 20.9 | 80°/ 2.03 m / 6.7° | 2.4 m / 7.9 | 2.8 m / 9.2° | 17 cm / 6.7° |
| 120' / 3.05 m / 10.0 3.6 m / 11.8° 4.3 m / 14.1° 25 cm / 9.8° 150' / 3.81 m / 12.5° 4.6 m / 15.1° 5.4 m / 17.7° 32 cm / 12.6° 200' / 5.08 m / 16.7° 6.1 m / 20.0° 7.2 m / 23.6° 42 cm / 16.5° 250' / 6.35 m / 20.8° 7.6 m / 24.9° 9.0 m / 29.5° 53 cm / 20.9° | 90°/ 2.29 m / 7.5° | 2.7 m / 8.9 | 3.2 m / 10.5° | 19 cm / 7.5° |
| 150' / 3.81 m / 12.5 4.6 m / 15.1' 5.4 m / 17.7' 32 cm / 12.6' 200' / 5.08 m / 16.7' 6.1 m / 20.0' 7.2 m / 23.6' 42 cm / 16.5' 250' / 6.35 m / 20.8' 7.6 m / 24.9' 9.0 m / 29.5' 53 cm / 20.9' | 100°/ 2.54 m / 8.3° | 3.0 m / 9.8 | 3.5 m / 11.5° | 21 cm / 8.3° |
| 200" / 5.08 m / 16.7" 6.1 m / 20.0" 7.2 m / 23.6" 42 cm / 16.5" 250" / 6.35 m / 20.8" 7.6 m / 24.9" 9.0 m / 29.5" 53 cm / 20.9" | 120°/ 3.05 m / 10.0° | 3.6 m / 11.8° | 4.3 m / 14.1 | 25 cm / 9.8° |
| 250°/ 6.35 m / 20.8° 7.6 m / 24.9° 9.0 m / 29.5° 53 cm / 20.9° | 150°/ 3.81 m / 12.5° | 4.6 m / 15.1 | 5.4 m / 17.7 | 32 cm / 12.6° |
| | 200°/ 5.08 m / 16.7° | 6.1 m / 20.0 | 7.2 m / 23.6° | 42 cm / 16.5° |
| 300° / 7.62 m / 25.0° 9.1 m / 29.9° 10.8 m / 35.4° 63 cm / 24.8° | 250°/ 6.35 m / 20.8° | 7.6 m / 24.9° | 9.0 m / 29.5° | 53 cm / 20.9° |
| | 300°/ 7.62 m / 25.0° | 9.1 m / 29.9° | 10.8 m / 35.4 | 63 cm / 24.8° |

To use wireless functions, a PC is required that meets the condi-tions given below:

OS: Windows XP Home Edition, Windows XP Professional, Windows 2000 Professional, Windows Me (Millennium Edition) or Windows 98SE (Seco

Edition) or Windows 98SE (Second Edition)
Pentium III or higher, or other compatible processor (800
MHz or higher recommended when using the live mode;
1 GHz or higher is recommended when playing movies).
128 MB or more (256 MB or more for Windows XP or
Windows 2000) CPU:

Free hard disk space: 60 MB or more

Hardware conditions CD-ROM drive (for software installation and viewing the

cu-rown drive (for software installation and viewing inc user's manual).

An 802.11b/g bull-in wireless LAN system or external 802.11b/g LAN card must be installed and running nor-mally. However, some 802.11g/b wireless LAN may not allow connection to 802.11g projectors. The data trans-fer speed will be lower with an 802.11b LAN than that

with an 802.11g LAN.

vser: Internet Explorer 6.0 or later, Netscape Communicator 7.0 or later DirectX® 8.1b or later must be installed.

Operation is not guaranteed for all computers that meet the above conditions

Notes on use

- The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use. The length of tithe that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
- The brightness of the lamp will gradually decrease with use. The lamp, LCD panel, polarizing plate, and polarizing beam splitter (PBS) are consumable parts. These parts may need to be replaced during the guarantee period if the projector is used for six or
- during the guarantee period if the projector is used for six or more hours per day. The replacement cycle of the LCD panel, polarizing plate, and polarizing beam splitter (PSB) will be shortened if the projector is subjected to continuous use for six or more hours. Likewise, the replacement cycle of the lamp will be shortened if the power is frequently turned on and off or the projector is subjected to continuous use for 10 or more hours. Interruptions may occur in the wireless connection due to signal interference or PC conditions.

Panasonic

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