

# HP mp3320 digital projector



Impress your audience with a mobile solution that is among the best on the market. Enjoy HP performance and reliability in a remarkably easy-to-use and affordable projector.

## Smooth, easy operation

- **Navigate menus easily with language localization.** Because the projector is preconfigured especially for your geographic region, you can choose the on-screen display language that best fits your needs and take advantage of the projector's full functionality.
- **Optimize for data or video at the touch of a button.** Whether you're delivering a PowerPoint presentation with charts and graphs or running video, you need a clear, bright, crisp picture. This projector features image optimization for data and video, providing the best color contours and contrast levels for your presentation.
- **Get quick setup on the go.** With electronic keystone correction adjustments, you'll deliver a squared, undistorted image for a professional presentation—every time.
- **Connect to virtually any device.** Use the projector with a range of devices, including a laptop computer, PDA, or DVD player. The projector is equipped with built-in audio as well as full-screen NTSC/PAL/SECAM video capability, and is compatible with VGA, composite, component, S-video, and HDTV inputs.

## Images that impress

- **Enjoy bright, crisp images you'll have to see to believe.** The projector delivers superior brightness with 2,400 ANSI (max) lumens<sup>1</sup> and is equipped with a super-sharp contrast ratio of 2,000:1.
- **Project sharp images.** With true XGA native resolution and VGA to SXGA+ scalability, you'll always see great detail, whether you're presenting at a small, impromptu meeting or a large business conference.

## Powerful features at a great price

- **Lighten your traveling load.** At less than 9.9 by 8.3 by 2.8 in (251 by 210 by 70 mm) and under four pounds (less than 2 kg), the projector has a footprint the size of a standard sheet of paper and fits neatly into your briefcase or backpack with room to spare. Get the ultimate in mobility at a great price.
- **Save money and preserve your lamp.** The convenient economy mode option lets you operate at 20 percent lower lumens, lengthening the lamp life from 2,000 hours (normal mode) to 4,000 hours (economy mode).<sup>2</sup>
- **Choose a one or three-year warranty.** Depend on HP to help you protect your investment. Choose the standard, one-year warranty or select added protection with a three-year warranty. Both warranties include Express Exchange,<sup>3</sup> so that you can get right back to work.

## Superb fidelity with true-to-life color

- **Rely on DLP for on-screen consistency and rich color.** DLP technology leads the pack when it comes to quality and consistency on the screen. This proven technology keeps color looking the same across the screen, with no fading or resolution loss.
- **See color vibrancy and accuracy—especially vivid, dazzling yellows.** You don't have to learn the science of color, HP understands it for you. Color comes alive, thanks to unique technology: HP's industry-leading color science uses a five-segment wheel that makes reds richer and yellows more vivid. See colors as they were meant to be seen!

<sup>1</sup> The ANSI (max) lumens rating is based on ANSI/NAPM IEC 61947-1 tests of 47 units, in January 2006, with a projector mean ANSI lumens of 2,390 and maximum ANSI lumens of 2,479. The ANSI (max) lumens specification is provided to enable customers to accurately compare HP Digital Projectors lumens with the lumen ratings of other vendors. Lamp brightness will decline with use. Replacing the used lamp with a new factor lamp will restore the projector's output to its original brightness range.

<sup>2</sup> Lamp life results will vary depending upon mode selected, environmental conditions, and usage.

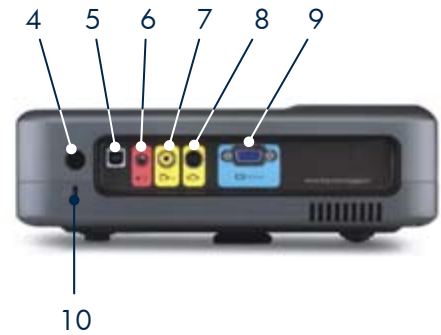
<sup>3</sup> Program features and availability vary by country.

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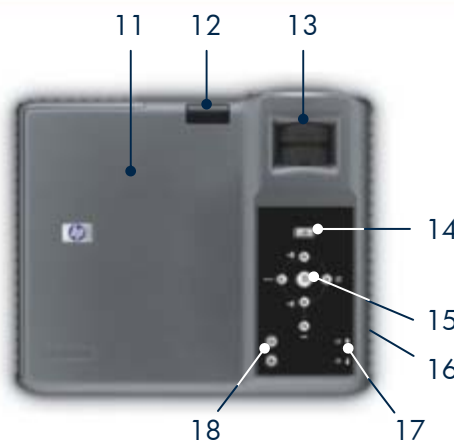
- 1 Projection lens with swing-up cover
- 2 IR remote control sensor (1 of 2)
- 3 Venting
- 4 IR remote control sensor (2 of 2)
- 5 USB input
- 6 Audio input (3.5 mm phone jack)
- 7 Composite video input (RCA jack)
- 8 S-video inputs (Min Din 4 pin)
- 9 Computer/component input
- 10 Security slot
- 11 Magnesium alloy top and bottom, high temperature plastic sides
- 12 Elevator foot button
- 13 Zoom adjustment, focus ring
- 14 Power button
- 15 Menu, directional controls, sync and source buttons
- 16 Power cable input
- 17 Lamp and temperature warning LED indicators
- 18 Image optimization selector: data mode, video mode
- 19 Hide button
- 20 Mouse pad
- 21 Power button
- 22 Right-click mouse button
- 23 Page-up button
- 24 Auto sync button
- 25 Page-down button
- 26 Image optimization selector button: data mode, video mode
- 27 Menu buttons
- 28 Source button
- 29 Left-click mouse button



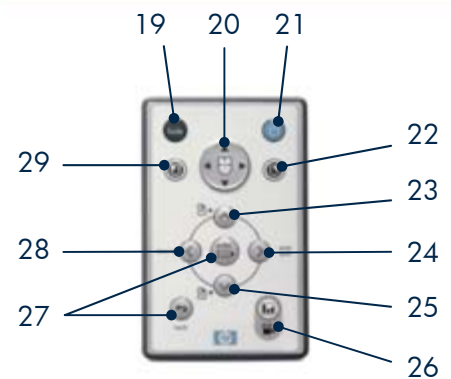
HP mp3320 digital projector (front view)



Inputs (rear view)



Controls (top view)



Standard remote control<sup>4</sup>

## Projector highlights

- **Give interruption-free presentations.** The projector features a credit card-size remote control<sup>4</sup> with mouse functionality, and by connecting with USB, you can control your laptop from the projector—leaving you free to manage your presentation while staying focused and engaged with your audience.
- **Be flexible.** Utilizing the many adjustable features is easy, with focus, zoom, and image optimization buttons all located on top of the projector and most of them on the remote control as well.
- **Project from nearly anywhere.** The smart, stylish design is functional in a variety of settings, with digital and optical zoom, one-hand elevator foot operation, and support for ceiling or tripod mounting—making this projector truly mobile. At just 3.8 lbs (1.7 kg)—less than most notebook computers—and with your included carrying case, the projector is designed to keep pace with your business lifestyle.
- **Make sure audiences can hear presentations clearly.** The projector emits operating noise as low as 35 dB,<sup>5</sup> so viewers can enjoy presentations without having to strain to hear them.

<sup>4</sup> Actual physical appearance may vary.

<sup>5</sup> Operating noise is 35 dBA in economy mode and 37 dBA in standard mode.

# Enjoy outstanding image quality—even in large rooms—from a mobile, easy-to-use projector at a price you can afford.

## Always dazzling

Don't let its size fool you: this portable digital projector reliably gives you astonishing image quality. You'll rival the best projecting technology with 2,400 ANSI (max) lumens,<sup>6</sup> plus a razor-sharp contrast ratio of 2,000:1 for superior clarity. And when it comes to on-screen quality and consistency, DLP technology is the undisputed industry leader. Combined with the projector's high lumens rating, DLP delivers a perceptible difference in color fidelity and depth across the whole screen. And DLP technology protects your investment by keeping color looking great year-after-year, with no fading.

## Small is good

In business and consulting applications, mobility is the name of the game. While the projector's sturdy design and high compatibility ensure reliable performance under demanding and unpredictable travel conditions, it is also light and easily portable. Depend on its agility, to adjust for an awkward position with keystone correction, and to always tote easily.

Now you can travel with just your projector and a laptop or even a PDA. Walk into a room and within minutes have your projector set up and ready, with little clutter or fuss:

1. Plug into an AC outlet and connect to your presentation source (laptop, VCR, etc.).
2. Adjust the picture with focus, elevation, and keystone correction, if needed.
3. Stand back and begin!

## Designed to put you in your best light

Effective communicators know not to let technology get in the way of their ideas: so make an immediate impression with the smooth and simple HP mp3320 digital projector. The slim design keeps you looking professional while the light weight and easy setup make sure you aren't encumbered by your tools.

With its compact size and low noise level, the projector won't distract your audience from the spectacular images or your voice as you command the room. Plus, the wireless control lets you range freely and be engaged—making the best impact for your presentation.

## Maximize your presentations with versatile accessories from HP



**6-foot (1.8 meter) component (HDTV) VGA cable**  
**L1713A**

Easily present high definition content from devices with component outputs.



**Premium remote control<sup>7</sup>**  
**L1631A**

Effortlessly control every detail of your presentation with a laser pointer and enhanced navigation controls.



**HP ceiling mount**  
**L1703A**

Easily mount your projector to the ceiling and enable permanent installation.



**HP lamp module**  
**L2152A**

Prevent distracting interruptions during your presentation with this back-up lamp module.



**Deluxe combination travel case**  
**L1622A**

An economical and sturdy design allows you to take a notebook, projector, and even a mobile printer, wherever you need to present.



**HP mobile 60-inch screen**  
**L1633A**

Give your audience the big picture whenever and wherever you want with a self-contained, easy-to-use mobile screen.



**HP presenter 50-inch screen**  
**L1671A**

Compact and convenient for simple transport, this projector screen allows great presentations, no matter where you are.

<sup>6</sup>The ANSI (max) lumens rating is based on ANSI/NAPM IEC 61947-1 tests of 47 units, in January 2006, with a projector mean ANSI lumens of 2,390 and maximum ANSI lumens of 2,479. The ANSI (max) lumens specification is provided to enable customers to accurately compare HP Digital Projectors lumens with the lumen ratings of other vendors. Lamp brightness will decline with use. Replacing the used lamp with a new factor lamp will restore the projector's output to its original brightness range.

<sup>7</sup> Actual physical appearance may vary.

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## Technical specifications

<b>Brightness</b>	2,400 ANSI (max) lumens <sup>8</sup>
<b>Resolution</b>	True XGA (1024 by 768)
<b>Image contrast</b>	2,000:1 full on/full off
<b>Lamp life<sup>9</sup></b>	4,000 hours, economy mode; 2,000 hours, normal mode
<b>Weight</b>	3.8 lb (1.7 kg)
<b>Dimensions (w by d by h)</b>	9.88 by 8.27 by 2.77 in (251 by 210 by 70 mm)
<b>Projected image</b>	
Size	Adjustable from 24.4 to 292.5 in (0.62 to 7.4 m) diagonal
Uniformity	Greater than 75% typical
Throw distance	Approximately 3.3 to 29.4 ft (1.2 to 12 m)
Offset	115% of image above the center line
<b>Zoom capability</b>	Digital and optical
<b>Display technology</b>	Texas Instruments DLP™ (single-panel 0.7 in 12° DDR DMD XGA projection system)
<b>Scalable resolution</b>	Native XGA (1024 by 768), scales up from VGA (640 by 480), scales down from SXGA (1400 by 1050)
<b>Projector lens</b>	~2.4 (wide), ~2.65 (tele); 1.2x manual zoom; manual focus
<b>Keystone correction</b>	±16° (32° total)
<b>Light source</b>	200-watt compact P-VIP projector bulb
<b>Audio</b>	Monaural speaker, 1-watt peak output
<b>Video capability</b>	S-video, composite, component, HDTV (up to 1080i)
<b>Video formats</b>	NTSC, PAL, SECAM
<b>Input connections</b>	Computer input (VGA terminal), composite video input (RCA jack), S-video inputs (Min Din 4-pin), audio input (3.5 mm phone jack), USB input
<b>Computer signal input detection</b>	Automatic
<b>Computer compatibility</b>	NTSC-M (3.58 MHz), 4.43 MHz, PAL-B, D, G, H, I, M, N, SECAM-B, D, G, K, K1, L, HDTV-480i, 480P, 576i/P, 720P, 1080i
<b>Image synchronization</b>	Automatic
<b>Remote control</b>	With power, page up/down, mouse, menu, sync, and source buttons
<b>Menus</b>	User-friendly multilingual On Screen Display (OSD)
<b>Mounting capability</b>	Ceiling, tripod (third-party), and tabletop
<b>Tilt angle</b>	8 degrees with elevator foot
<b>What's in the box</b>	HP mp3320 digital projector, 10-ft power cable, VGA cable, USB cable, 6 ft (1.8 m), HP Audio miniplug cable, 6 ft (1.8 m), <sup>10</sup> remote control, remote control battery, carrying case, documentation kit, including Quick Setup Card, CD-ROM with User's Guide, Important Safety Information booklet, Worldwide Limited Warranty and Technical Support booklet, Worldwide Telephone Numbers booklet, Program License Agreement
<b>Warranty</b>	Device: one or three-year limited hardware warranty including Express Exchange Lamp: 90-day limited warranty or 500-hours (whichever comes first)

## Environmental ranges

<b>Operating</b>	Temperature: 41 to 95° F (5 to 35° C) Humidity: 35 to 80% RH max, non-condensing Altitude: up to 10,000 ft (3048 m)
<b>Storage</b>	Temperature: -4 to 140° F (-20 to 60° C) Humidity: 20 to 80% RH max, non-condensing Altitude: up to 40,000 ft (12,192 m)

## Noise level

<b>Power</b>	
Requirements	Input voltage: 100 to 240 VAC, 50/60 Hz
Consumption	250 watts maximum

## Certifications

Safety/Electromagnetic compatibility	Safety certifications cULus, TUV-GS, CCC, EN60950, PSB, NOM, B-mark, GOST, FDA DHHS, SHOAN, EMI/EMC certifications, FCC Part 15 Class B, EN55022: 1998, EN55024: 1998, VCCI, MIC, C-Tick
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<sup>9</sup>Lamp life results will vary depending on mode selected, environmental conditions, and usage.

<sup>10</sup>Included in box with the L2141A 3-year warranty bundle only.

<sup>11</sup>Included in-box with all bundles.

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## Ordering information

HP product	Number
HP mp3320 digital projector, 1-year warranty	L2140A
HP mp3320 digital projector, 3-year warranty	L2141A
<b>Accessories and supplies</b>	
HP deluxe combo carry case	L1622A
HP premium remote control	L1631A
HP mobile 60-inch screen	L1633A
HP presenter 50-inch screen	L1671A
HP soft sleeve bag (cover case) <sup>11</sup>	L1678A
HP ceiling mount	L1703A
HP replacement lamp module	L2152A
HP credit card remote control <sup>11</sup>	L2310A
<b>Cables</b>	
HP RCA to RCA composite, 6 ft (1.8 m)	L1527A
HP audio miniplug, 6 ft (1.8 m) <sup>10</sup>	L1532A
HP VGA, 6 ft (1.8 m) <sup>11</sup>	L1625A
HP S-video, 6 ft (1.8 m)	L1635A
HP USB, 6 ft (1.8 m) <sup>11</sup>	L1661A
HP component RCA to VGA, 6 ft (1.8 m)	L1713A
HP S-video, 20 ft (6 m)	L1715A
HP SCART to S-video adapter	L1717A
HP Engineered S-video, 50 ft (15.2 m)	L2144A
HP Engineered VGA, 50 ft (15.2 m)	L2145A
<b>Service and support</b>	
Web support	www.hp.com
Phone support	1-800 HP Invent (1-800-474-6836)

For more information visit our website at [www.hp.com](http://www.hp.com)

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