

IBM Projectors



IBM C400, M400 and E400 projectors

Highlights

- **Choose from a selection of portable and conference room projectors to meet your unique needs**
- **Quickly synchronize video signals with IBM ThinkPad notebooks using auto-sensing technology**
- **Save on maintenance and the cost of lamp replacement with long-lasting lamps**
- **Rest easy with 3-year Limited Warranty with Replacement Services for projectors under warranty¹ and one of the longest limited warranties in the industry**

A powerful pair

For powerful presentations that leave a lasting impression, pair your IBM ThinkPad® notebook with an IBM projector. All IBM projectors are optimized to work with ThinkPad notebook computers—so you can present with confidence.

A quick start

IBM projectors help you start your presentations quickly with auto-sensing technology. These projectors are specially designed to pick up video signals from IBM ThinkPad notebooks almost immediately. So you can avoid awkward pauses, heavy sighs and impatient finger-tapping—and make a great first impression.

A lasting light

IBM projectors give you high-quality, bright presentations and lamps that last. Superb brightness and contrast are necessary attributes of great images. IBM projectors give you as many as 2650 lumens for maximum impact. And the high-quality lamps used in all IBM projectors can last up to 3000 hours.*

A sigh of relief

Rest easy with a 3-year limited warranty¹ on your projector from IBM as well as a 3-month limited warranty on the lamp. You'll also enjoy access to IBM worldwide² service and support. Our long lamp life and industry-leading warranty and service combine to deliver exceptional total cost of ownership. With other projectors, you could pay extra to get the service and support that come standard with IBM. For example, if an IBM projector under warranty needs a warranty-related repair, a replacement projector can be shipped to you quickly and easily.

For important warranty information see page 6.

Call **1 888 SHOP IBM** or go to **ibm.com** (U.S.) or **ibm.ca** (Canada) to buy direct, locate an IBM reseller or for more information.

IBM M400 Projector—an extra-light, extra-small, microportable projector

Enjoy ultra portability and travel with ease. Designed with the needs of the business traveler in mind, the new IBM M400 projector features a footprint about half the size of a sheet of office paper and weighs just 1.1 kilograms (2.4 pounds)—making it the ideal solution for presentations on the go. And the convenient carrying case included with the projector encloses all cables and accessories for hassle-free travel.



IBM M400 projector

The M400 projector also lets you take advantage of superb image quality. Using DLP technology, the M400 projector features bright images (1100 lumens) with a high image contrast ratio, making it an ideal solution for projecting video, presentations and spreadsheets. Native XGA resolution (1024 x 768) and bright, long-lasting lamps give you superb image quality.



Control panel features on the IBM M400 projector

IBM E400 Projector—an entry-level projector with enhanced value

Travel light to the office, home and on the road. Boasting one of the lowest weights among entry-level projectors, the IBM E400 projector is easy to carry between home and office. Take advantage of professional presentation capabilities for the office and for business travel—as well as HDTV and DVD compatibility at home. Traveling is convenient with an included carrying case and remote control with integrated laser pointer.



IBM E400 projector

Leverage good image quality and professional features—in an affordable package. The E400 projector gives you affordable options for projecting a professional image. Digital Light Processing (DLP) technology helps you achieve the high-quality images and brightness that professional presentations and home users demand.



Control panel features on the IBM E400 projector

Light and bright

IBM C400 Projector—an ideal conference room projector

Move easily from one office to another or from boardroom to conference room with a lightweight, compact projector that doesn't skimp on features. At only 3.1 kilograms (6.8 pounds) and a 50% reduction in size and requires barely more desk space than a standard sheet of paper, this projector provides portability to share throughout your department. Your staff will appreciate exceptional brightness with 2650 lumens as well as XGA (1024x768) maximum resolution.

You can also enjoy time savings and convenience with remote asset management. The C400 makes it possible to manage your projector remotely over your network. Simply connect your projector to your network with an RJ-45 cable, and you will be able to access and manage your projector through any PC on your network via a Web browser. The projector can even automatically trigger an e-mail to your projector administrator to proactively alert them to any problems. And unlike projector manufacturers who charge extra for remote management software, IBM offers this feature as a standard on the C400.



IBM C400 projector



Control panel features on the IBM C400



Remote control

All IBM projectors come with a common remote control as a standard feature. An integrated laser pointer helps you pinpoint ideas. Controls that mirror those on the projectors' control panel offer ease of use.



Zoom lens

An integrated lens lets you zoom and focus easily. You can even zoom and pan without walking across the room to get to the projector using your remote control.



Leveling feet

Located on all three projectors, this feature, along with elevator functionality, helps keep your projector steady on uneven or cluttered surfaces as well as helps you position the projector image perfectly.

What kind of projector do you need?

How will you use your projector?	IBM recommends:
K-12 and higher education; government use	C400 E400
Hotel, large hall or large conference use	C400
Hotel use, small or medium conferences or events	M400 E400
Meetings and education presentations	E400 M400 C400
Mobile presentations, sales and small meetings	M400 E400
Novice use requiring reasonable pricing	E400
Commercial equipment for ceiling use	C400 E400

IBM Data/Video Projector specifications

Projector:	M400	E400	C400
Part number	0037A04	0038A04	0039A04
Weight	1.1kg (2.4 lbs)	2.1kg (4.6 lbs)	3.1kg (6.8 lbs)
Dimensions	48x182x162mm/1.9x7.2x6.4"	97x280x205mm/3.82x11.02x8.07"	86x285x220mm/3.38x11.22x8.66"
Display technology	DLP; Single-chip 0.7" DMD	DLP; Single-chip 0.55" DMD	DLP; Single-chip 0.7" DMD
Native resolution	XGA (1024x768)	SVGA (800x600)	XGA (1024 x 768)
Lumens (Economy Mode)	1100 (n/a)	1300 (1000)	2650 (1850)
Contrast ratio	1800:1	1500:1	1200:1
Limited warranty¹	3 years	3 years	3 years
Computer compatibility	SVGA, XGA, SXGA	VGA, SVGA, XGA	SVGA, XGA, SXGA
Video connectors	S-Video & Composite video mini-jack	S-Video & Composite video connector	VGA, S-Video & Composite video connector
Video compatibility	NTSC, PAL, SECAM, SDTV(480i), EDTV(480p), HDTV (720p, 1080i)	NTSC, PAL, SECAM, EDTV (480p), HDTV (720p, 1080i)	NTSC, PAL, SECAM, SDTV(480i), EDTV(480p), HDTV (720p, 1080i)
Keystone correction	+/- 12 degrees	+/- 15 degrees	+/- 15 degrees
Zoom	1.20:1 manual zoom	1.16:1 manual zoom	1.20:1 manual zoom
Audio connector	3.5mm mini-jack	3.5mm mini-jack	3.5mm mini-jack
Speaker	1 x 0.5 Watt Mono	1 x 1 Watt Mono	1 x 3 Watt Mono
Max. power consumption	250W	155W	350W
Control Features:			
Projection	Front, rear	Front, rear, ceiling	Front, rear, ceiling
Keylock	Yes	Yes	Yes
Elevator feet	Yes	Yes	Yes
Leveling feet	Yes	Yes	Yes
Lamp:			
Part number	73P2790	73P2775	73P3191
Power	120W P-VIP**	200W P-VIP	250W P-VIP
Life hrs* Standard Mode (Economy Mode)	2000 (3000)	2000 (3000)	1500 (3000)
Limited warranty¹	90 days	90 days	90 days

For important warranty information see page 6.

* Lamp Life is a measure of brightness degradation only, and is not a specification for the time it takes a lamp to fail and cease light output. Lamp Life is defined as the time it takes for more than 50% of a lamp sample population to have brightness decrease by approximately 50% of the rated lumens for the specified lamp. For example, if the defined life of your lamp is 2000 hours and its brightness is rated at 1100 lumens, then there is a 50% chance that over 2000 hours of run time, your lamp will have decreased its brightness by 50% to approximately 550 lumens.

** Ballast drives lamp at 114 watts

Projection screen distances and sizes

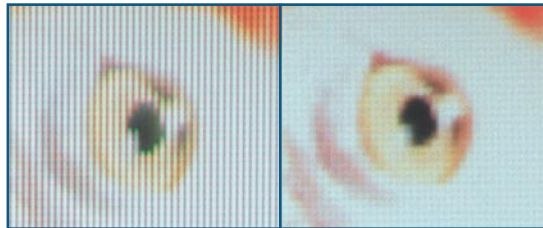
Projector	Minimum screen		Maximum screen	
	Distance	Size	Distance	Size
M400	0.07m (0.28')	0.66m (2.2')	7.85m (25.79')	6.32m (20.7')
E400	1.5m (4.92')	0.76m (2.5')	4.4m (14.4')	5.35m (17.6')
C400	1.5m (4.92')	0.73m (2.4')	10.0m (32.8')	6.93m (22.7')

Keep a spare projector lamp on hand.

Though IBM projector lamps are designed to last up to 2000 hours*, it never hurts to have added peace of mind. IBM offers spare projector lamps so you can have an extra ready when (and if) you need it. We even keep most projector lamps in stock for up to three years after the projector model has been withdrawn from the market—helping protect your investment for years to come.

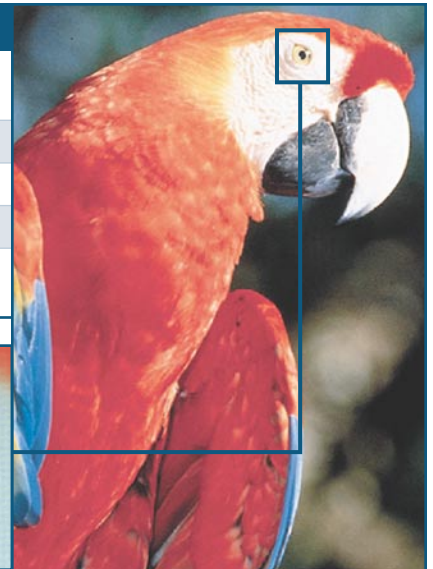
Why new DLP technology is better than LCD technology

	Liquid Crystal Display (LCD) technology	Digital Light Processing (DLP) technology
Image quality	Larger gaps between panels	Smaller gaps between panels
Weight and size	Heavy and clunky	Lightweight and portable
4,000 hour engine test³	Catastrophic optical degradation	Superior picture reliability
Image clarity	Grainy and pixelated	Looking through a clear pane of glass



LCD Technology

DLP Technology



It's all done with mirrors.

DLP technology, found in IBM projectors, uses 1,000,000 tiny mirrors to help eliminate the "screen door" effect seen with comparable LCD-projected images.

IBM mobile presentation essentials

On-the-go presenters have everything they need with these extras.

IBM ThinkPad X40 Notebook

Lightweight and powerful, this ThinkPad notebook is a great choice for presentations on the go.

IBM ThinkPad Carrying Case—Expander

Carry and protect your notebook and presentation materials in style.

IBM USB 2.0 High Speed Memory Key—128MB

Easily tote large presentations in this thumb-size device.

Portable, collapsible screen

Give your presentation more power and presence.

Kensington MicroSaver Security Cable Lock from IBM

Help prevent theft by securing your IBM ThinkPad or Projector to a stationary object.



For information about other IBM projector accessories, visit:

ibm.com/pc/us/accessories/projectors(U.S.) or **ibm.ca/accessories/projectors** (Canada)

Projector

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****Warranty:** For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept JDJA/B203. IBM makes no representation or warranty regarding third-party products or services.

Footnotes:

[1] Limited warranty: Support unrelated to a warranty issue may be subject to additional charges. Bulb covered by a separate 90-day limited warranty.

[2] International Warranty Service: is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[3] DLP-based projectors: A 2002 study by the Munsell Color Science Laboratory (MCSL) at Rochester Institute of Technology compared the picture reliability of DLP-based projectors to that of TFT-based projectors. The initial test results, recently announced by Texas Instruments, who commissioned the study, assert that DLP-based projectors demonstrated superior picture reliability over the test period (4,000 hours) while the LCD-based projectors suffered optical degradation that was catastrophic. See "DMD Field Reliability: A Comparison of Competing Technologies used in Data Projectors," by Michael R. Douglass and Rick W. McCall.

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