Specifications

Model Name		XJ-350	XJ-450
Display	Features	1 x 0.7"12º DLP™	
	Resolution	1024 x 768 pixels	
Picture	Brightness	2200 ANSI lumens	2800 ANSI lumens
	Colour reproduction	16.77 million	
Lens	Focusing	Manual	Auto
	Features	Optical 2X zoom	
	Focal length / Aperture	f= 20 to 40 mm / F:2.0 to 2.8	
	Projection ratio distance/width	1.4 - 2.8 : 1	
	Offset	100%	
	Projection screen size	15-inch to 300-inch	
	Projection range	Minimum: 0.8 m 60" screen: 1.6 m to 3.2 m: 100" screen: 2.7 m to 5.3 m	
Lamp	Type/lifetime	200 W NSH/ approx. 2000 h	250 W NSH/ approx. 2000 h
Digital keystone correction	Vertical	±30º auto	
	Horizontal	±8º manual	±30º auto
Terminals	Computer	1 x 15-pin HD	
	Video	1 x RCA	
	S-Video	1 x Mini-DIN	
	Component video	Opt. adapter over 15-pin HD	
	Audio	3.5 mm jack	
	Mouse remote	USB	
Computer compatibility	Resolution	True: XGA (1,024 × 768) Compressed: UXGA (1,600 × 1,200)	
	Hor./vert. frequency	15 to 92 kHz / 50 to 85 Hz	
	Signal	Analogue RGB	
Video compatibility	Input signal	PAL, PAL-N, PAL-M, PAL60, SECAM, NTSC, NESC4.43	
	Input terminals	Composite-Video, YCbCr, YPbPr	
Audio system	Speaker	1 x 1 W	
Remote control	Features	Wireless IR with mouse emulation	Wireless IR with mouse emulation and laser pointer
General	Dimensions (W x H x D)*¹	230 × 55 × 171 mm	278 × 64 × 197 mm
	Weight	1.8 kg	2.4 kg
	Cabinet	Magnesium	
	Colour	Silver grey	
	Power supply	100 to 240 V AC 50/60 Hz	
	Operating temperature	5ºC to 35ºC	
	Added features	Digital zoom, rear projection, ceiling projection*² (XJ-450 only), Picture-in-Picture, user logo, mute, freeze, Kensington slot	
	Supplied accessories	Power cable, RGB cable, USB cable, video cable, IR remote control, batteries, case, user manual on CD, quick start card, warranty card	
Regulations		Meets IEC60950: UL listed (UL60950, CSA60950) Meets Industry Canada ICES-003 Class B: Meets FCC Part 15 Class B Meets Low Voltage Directive (EN60950, NEMKO approved) Meets EMC Directive (EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3) Meets ACA rules (AS/NZS 3548 Class B): PSB approved: MIC approved Electrical Appliance and Material Safety Law (S-JQA approved) Meets VCCI Class B	

*1 Excluding protrusions
*2 Requires separately sold hanger for installation. Inquire with your CASIO dealer for details.

Projection distance

Screen size	WIDE	TELE
40-inch	1.1 m	2.1 m
60-inch	1.6 m	3.2 m
80-inch	2.1 m	4.3 m
100-inch	2.7 m	5.3 m
150-inch	4.0 m	8.0 m
200-inch	5.3 m	10.7 m
300-inch	8.0 m	16.0 m

*Projection spheres are approximations, with a margin of error of about ±5%.

Projection distance
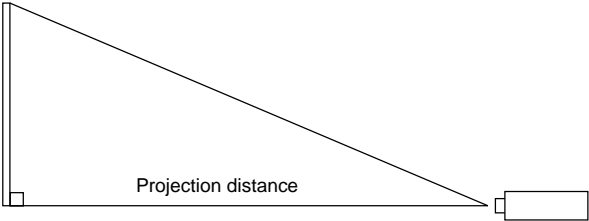
Safety precautions

Please be sure to read the operator's manual carefully before using these products to ensure their safe use.

Warning: Do not use any power source voltage, connection cord or AC adapter other than those specified. To do so could result in fire or electric shock.

Caution: Do not install this product in any place where it could come into contact with water, moisture, steam, dust or oily smoke or in any high-temperature location. This may cause fire, electric shock or machine failure.
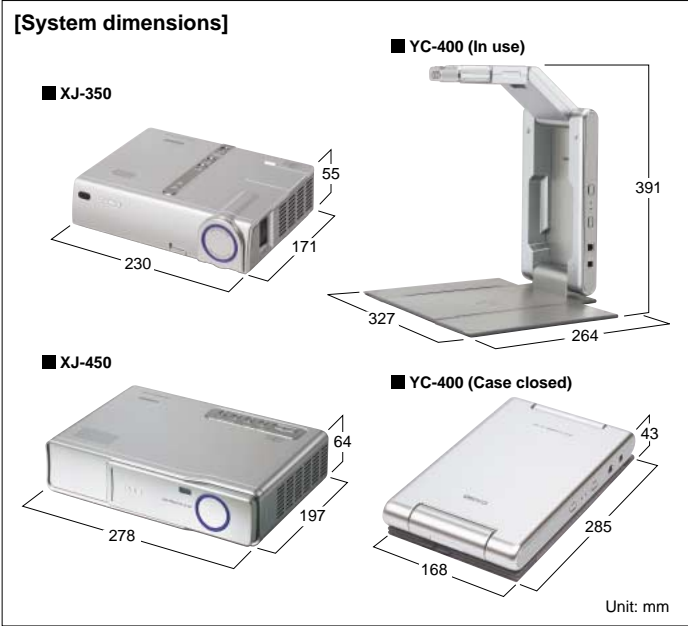
•This projector's light source is a high-voltage mercury lamp with extremely high internal pressure. Due to its characteristics, this lamp may explode with a bang or fail to ignite due to shock or overuse. The period of use before an explosion or failure may occur differs greatly, however, depending on the individual lamp and usage conditions. •Be sure to set up this equipment properly according to the instructions in the operator's manual. Failure to make connections properly or attempts to make alterations may result in accidents. CASIO cannot accept responsibility under such circumstances. •Specifications and designs are subject to change without notice. •The colour tones of the products shown may differ from the actual products due to printing. •The screen images shown are superimposed graphics.

•CASIO is a registered trademark of CASIO Computer Co., Ltd. in Japan. •CASSIOPEIA is a registered trademark of CASIO Computer Co., Ltd. •DLP, the DLP logo and the DLP medallion are trademarks of Texas Instruments. •XGA is a registered trademark of International Business Machines Corporation in the United States. •Windows is a registered trademark of Microsoft Corporation in the USA and/or other countries. •Other product names or company names in this catalogue are either trademarks or registered trademarks of their respective owners. •This catalogue is current as of January 2004.

http://world.casio.com/

Specifications

Model Name		YC-400
Imaging element		1 / 2.5" square pixel primary colour CCD (Total pixels: 4.23 million: effective pixels 4.00 million)
Display resolution	Still image	XGA (1024 x 768), SVGA (800 x 600)
	Through display	QVGA (320 x 240)
Projection lens		F2.6 - 4.8 / f–5.8–17.4 mm (35 mm format: 35.0 to 105.0 mm)
Zoom	Optical	1.8X auto (Document Camera mode, Scanner mode) 3X auto (Board Camera mode, Business Camera mode)
	Digital	Supported (7.5X, scrollable)
Focal point adjustment		Contrast type auto focus
Projection range		33 cm (i/o 31 cm) (Document Camera mode, Scanner mode)
		40 cm to ∞ (Board Camera mode, Business Camera mode)
Shutter speed		Auto
Aperture		Auto
White balance		Auto
Image rotation		Supported (90º / 180º / 270º)
Terminal		USB 1.1 x 1
Power requirement		100 to 240 AC, 50 / 60 Hz
Dimensions (W x H x D)*		Case closed: 168 × 43X 285 mm In use: 327 × 391 × 264 mm
Weight		1.6 kg

* Excluding protrusions

[System dimensions]

■ XJ-350

■ XJ-450

■ YC-400 (In use)

55
391
230
171
327
264

■ YC-400 (Case closed)

64
278
197
43
285
168

Unit: mm

Options

Product	Model	XJ-350	XJ-450
Portable 60-inch screen	YN-6	Yes	Yes
Portable 80-inch screen	YN-8	Yes	Yes
Leather carrying case (Notebook PC carrier type)	YB-1	Yes	Yes
Component video cable	YK-3	Yes	Yes
Replacement lamp (for XJ-350)	YL-30	Yes	—
Replacement lamp (for XJ-450)	YL-40	—	Yes

YN-6
Portable screen

Leather carrying case

YL-30
Replacement lamp

DATA PROJECTOR
GENERAL CATALOGUE 2004

Ultra-Compact! Lightweight! High-Performance!

CASSIOPEIA® PRO

Casio's new data projectors designed to meet the demands of today's business world.

Compact! Lightweight! High-Performance!

CASIO technology activates the business meeting.
CASSIOPEIA® PRO Series — the new data projector standard.

For smooth presentations . . .

And lively discussions generating new ideas . . .

When CASIO's engineers set out to develop the next-generation data projector, their target was much more than just a machine to project images.

They envisioned a tool that would transform meetings into vibrant environments for opinion exchange and innovative thinking leading to business breakthroughs.

The result is a conveniently compact data projector featuring surprisingly high luminosity, accompanied by a Multifunctional Camera System with a high-resolution 4-megapixel digital camera.

These nicely balanced specifications stimulate creative thinking, and help users win new business.
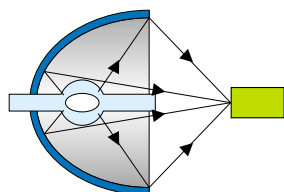
Data Projector
XJ-350
Ultra-Compact | 2200 ANSI lumens | True XGA support

- DLP™ system installed
- Ultra-Compact package (230 x 55 x 171 mm, 1.8 kg)
- 2200 ANSI lumens high luminosity
- Wide-angle, variable-range 2X zoom
- Vertical/horizontal keystone correction

Data Projector
XJ-450
Compact | 2800 ANSI lumens | True XGA support | Auto focus

- DLP™ system installed
- Compact package (278 x 64 x197 mm, 2.4 kg)
- 2800 ANSI lumens high luminosity
- Wide-angle, variable-range 2X zoom
- Automatic vertical/horizontal keystone correction
- Auto focus

When case closed

Multifunctional Camera System
YC-400
4-megapixel digital camera

- Real-time projection of documents and objects
- Save, edit and replay of meeting materials and projection screen contents
- Image correction function for one-touch optimisation of photographic images
- Camera unit removable for use as an independent digital camera
- Compact folding case (closed: 168 x 43 x 285 mm, 1.6 kg)

CASIO technologies contributing to compactness, lightweight and high luminosity

ACR system
Optical technology

An originally developed aspherical Acornic Reflector technology that optimises the capabilities of the luminous source lamp has made exceptional high luminosity and compactness possible.
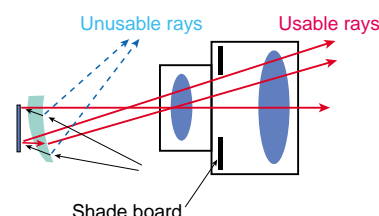
CASIO's original ACR system design improved efficiency approx. 30%.
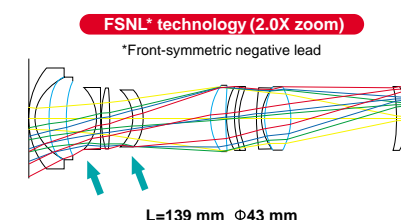
IMC system
Optical technology

These products' remarkable compactness, lightweight and brightness were achieved through the development of an optical system with an Inverse Meniscus Condenser lens as its core.

Unusable rays

Usable rays

Shade board

Wide-angle 2X zoom lens
Lens technology

A new wide-angle 2X zoom lens has contributed further to both compactness and lightweight.

FSNL* technology (2.0X zoom)

*Front-symmetric negative lead

L=139 mm Φ43 mm

Data projectors featuring remarkably high levels of luminosity and flexibility as well as exceptional compactness

PICTURE BY DLP™
A TEXAS INSTRUMENTS TECHNOLOGY

Data Projector
XJ-350

Ultra-Compact | 2200 ANSI lumens | True XGA support

Data Projector
XJ-450

Compact | 2800 ANSI lumens | True XGA support | Auto focus

For Seminars

Now, brighter than ever!
An optimal combination of
high luminosity with compactness

Our original aspherical Acornic Reflector (ACR) technology maximises the characteristics of the luminous source lamp to achieve high luminosity of 2200 ANSI lumens (XJ-350) and 2800 ANSI lumens (XJ-450). This ensures vivid image projection — even in brightly lit meeting rooms.

For Meetings

Mobile format for smart portability

A new optical system centered on CASIO's original Inverse Meniscus Condenser (IMC) lens has enabled the XJ-350 and XJ-450 to realize remarkably compact packages, measuring just 230 x 55 x 171 mm and 278 x 64 x 197 mm and weighing only 1.8 kg and 2.4 kg, respectively.
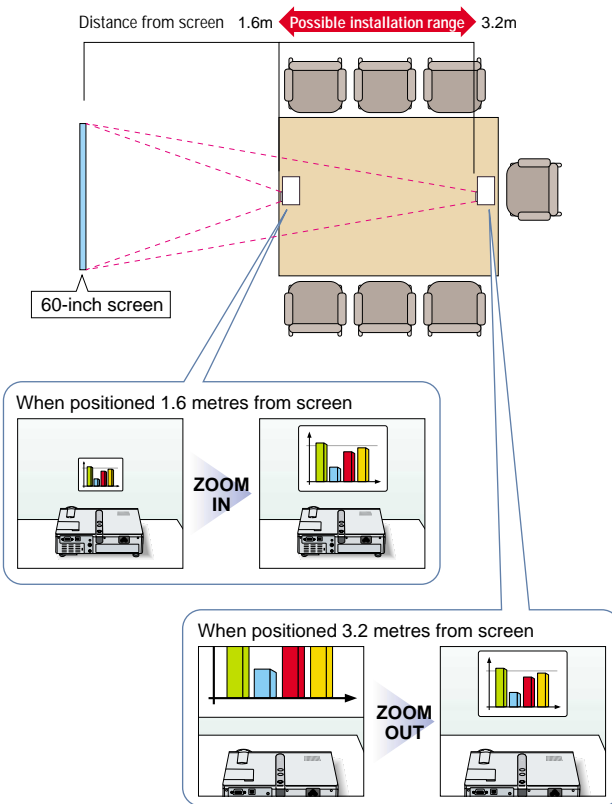
■XJ-350　　■XJ-450
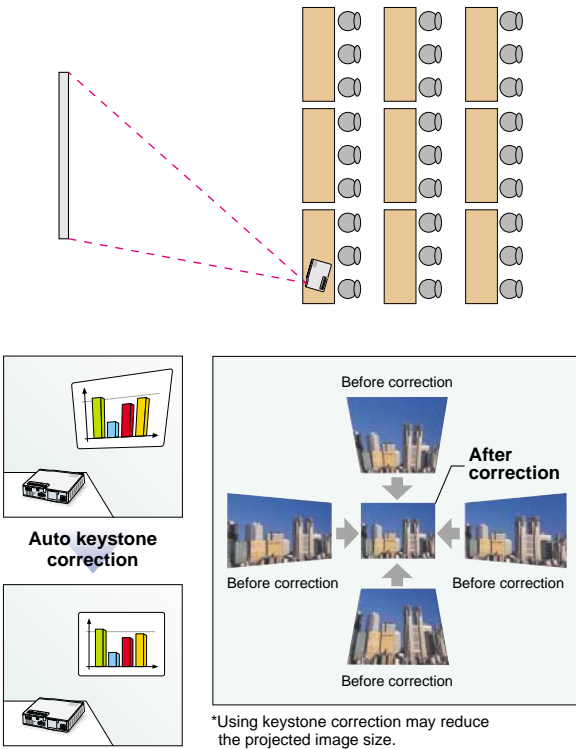
Newly developed wide-angle 2X zoom lens

These highly compact projectors are equipped with a wide-angle 2X zoom lens — the highest magnification among data projectors on the market.* Users can project 15- to 30-inch images from almost point-blank range, as close as 0.8 metres from the screen, or 60-inch images from 1.6 to 3.2 metres. This makes it possible to conduct lively, colourful presentations in venues ranging from small meeting rooms to spacious classrooms.

Distance from screen　1.6m　Possible installation range　3.2m

60-inch screen

When positioned 1.6 metres from screen

ZOOM IN

When positioned 3.2 metres from screen

ZOOM OUT

Automatic vertical/horizontal keystone correction expanding the setup range `XJ-450`

The XJ-450 employs a phase difference sensor system to detect both horizontal and vertical projector inclinations of up to ±30º and conduct one-touch automatic correction of trapezoidal distortions.

Auto keystone correction of image distortion

Auto keystone correction

Before correction
After correction
Before correction
Before correction
Before correction
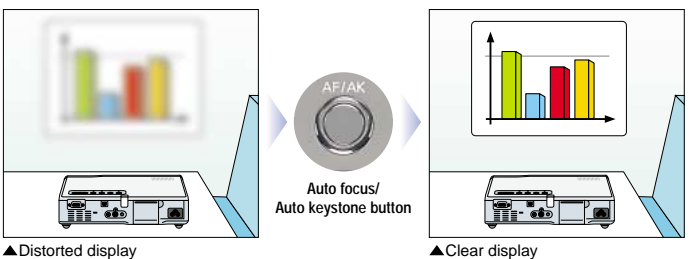
*Using keystone correction may reduce the projected image size.

The XJ-350 also detects vertical projector inclinations of up to ±30° and corrects distortions automatically. Horizontal corrections can be made manually within the range of ±8°.

Auto focus permitting quick setup `XJ-450`

The XJ-450's auto focus function* automatically corrects focusing distortions produced on the screen due to projector positioning. Clear, beautiful screen images can be produced with the touch of a button, reducing the time and effort required for setup.

*Keystone correction is conducted automatically at the same time.

AF/AK
Auto focus/Auto keystone button

▲Distorted display　　▲Clear display

True XGA-compatible high-luminosity DMD display element

A high-luminosity DMD (Digital Micromirror Device) supporting true XGA (1,024 x 768) display provides vivid image reproduction. UXGA (1,600 x 1,200) compression display is also supported.

User logo projection function for initial screen logo projection

The projectors are equipped with a logo projection function enabling users to project the logo or character of their company, store or brand on the initial screen. Visual symbols can be communicated easily and impressively in connection with presentations.

ABCDE Co., Ltd.

Picture-in-Picture function for simultaneous small-screen image presentation

The built-in Picture-in-Picture function supports projection of still or animated images from the VIDEO or S-VIDEO input as a small screen over a background image. The small screen can be repositioned freely or adjusted in size in three steps. This feature makes rich, in-depth communication of information possible in meetings of all kinds.

Rear projection function for projection from behind the screen

When projecting from behind the screen, the operator can flip the images horizontally with a simple setting change. The same projector setup conditions and projection ranges apply as for projection from the front of the screen.
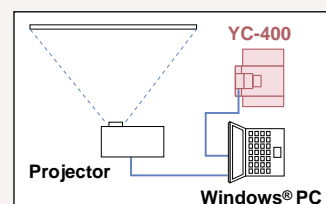
CASIO
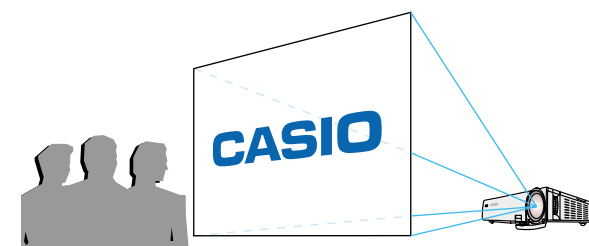
The Multifunctional 4-Megapixel Camera System is much more than simply a document camera.

Multifunctional Camera System

YC-400

4-megapixel digital camera

Windows® Me / 2000 Professional / XP compatible

YC-400

Projector

Windows® PC

When case closed

▲The 4-megapixel CCD camera projects even tiny letters written on paper with clear legibility.

4-megapixel CCD camera realizing highly detailed images

The fine detail captured by its 4-megapixel CCD enables the camera system to achieve vivid projection of everything from documents to three-dimensional objects. The system is also equipped with a scanner function permitting data-saving without pushing the shutter button, a maximum 3X optical zoom and auto focus. The high-resolution CCD supports real-time record-keeping as well as clearly detailed projection of zoom images of intricate characters and photographs.

▲Solid objects can also be projected clearly.

Save/edit/replay of whiteboard entries

Photographic subjects captured by the CCD as PC screens can be saved for future reference. Users can take advantage of this function to compose and record handwritten information added to images projected on a whiteboard during a meeting, for example, and save the images as visual minutes. The meeting can then be resumed smoothly at a later date.

Removable camera unit usable as digital camera

The camera unit can be removed from the stand and used as an independent high-performance 4-megapixel digital camera. Images shot with the easily removable camera can be projected immediately after the unit is reinstalled on the stand. The image data can also be saved on an SD card.

Technical specifications of digital camera unit

Recording Format	JPEG (Exif, Ver. 2.2), DPOF- and DCF-compliant
Recording Medium / Capacity	Internal flash memory 10 MB*, Card slot for SD-card / MMC
Image Deletion	One image, All images
Imaging Element	1/2.5" CCD-chip (4.23 MP total / 4.0 MP effective)

*Some built-in memory is used for storage of system data. Because of this, the amount of built-in memory abailable to you for storage may be less than the indicated capacity.

Advanced correction function for enhanced meeting efficiency

An original image-processing algorithm automatically corrects inclination and distortion (trapezoidal shapes) of photographed images. Only the appropriate areas of photo images are selected for projection, and colour tones are corrected automatically as well. This makes it possible to project beautifully balanced images on the screen, even when documents are placed roughly or images are shot from an oblique angle.
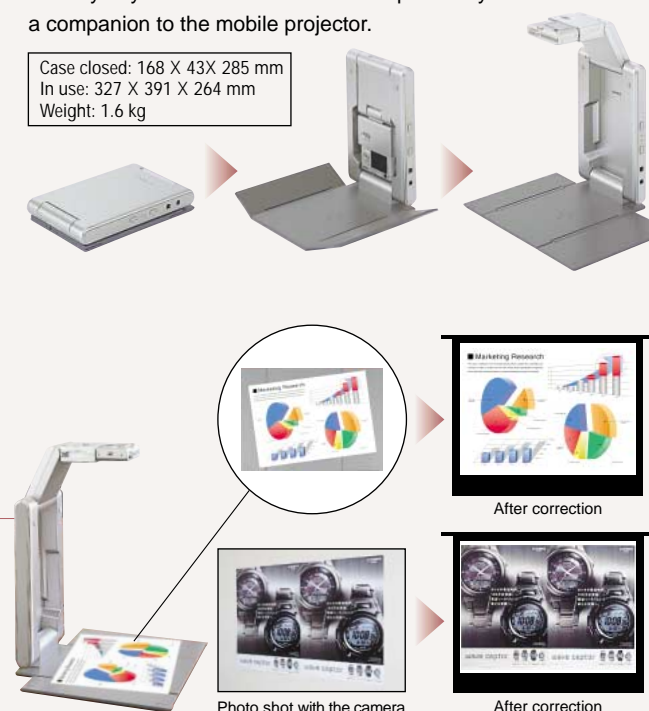
Photo shot with the camera — After correction

Smartly portable compact package

The compact folding package is designed to travel virtually anywhere. It exhibits excellent portability as a companion to the mobile projector.

Case closed: 168 X 43X 285 mm
In use: 327 X 391 X 264 mm
Weight: 1.6 kg

After correction

Multifunctional Camera System for Better Business Results

In meetings

The high-resolution 4-megapixel digital camera handles enlargement and detailed projection of even fine newspaper print or precision machines, significantly broadening the range of information you can present.

In seminars
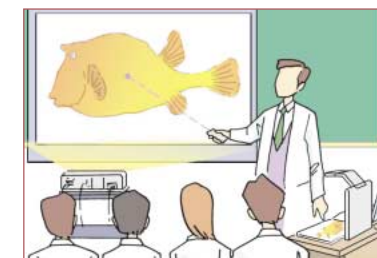
The ability to project even thick illustrated books, encyclopedias and specimens permits the instructor to communicate ideas clearly by presenting a variety of materials.

As a digital camera

You can project images directly from the removable digital camera when it is reinstalled in the stand after shooting. Since there's no need to transfer the images to a PC, you can make reports or presentations much more efficiently.