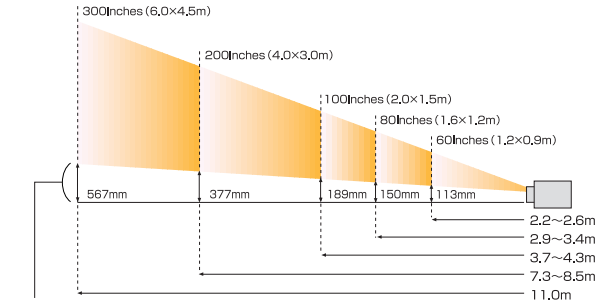


specifications

Model Name		iP-30BE	iP-30SE
Main Part Specification	Type	1chip DLP® color wheel color separation method	
	Size	0.7 inches DLP® Panel, Aspect Ratio 4:3	
	Number of Pixels	786,432 pixels (1,024 x 768 dots)	
Projection Lens		Manual Zoom: 1 to 1.16x	
Optical Source		200W Super High-pressure Mercury Lamp	
Screen Size		33-300 inches diagonal	
Projection Distance		1.3 to 11.0 m	
Color Reproducibility		Full color (16,770,000 colors)	
Brightness		2,500 ANSI lumens	
Scan Frequency		Horizontal 24.8 to 68.7 kHz, Vertical 50 to 85 Hz	
Resolution (At RGB signal input)		Native: 1,024 x 768 dots (Maximum: Compressed display of 1,280 x 1,024 dots is possible.)	
OHP Input/Output	Scanner	4.13 Mega-pixels color CCD camera	
	Total number of pixels	2,384 x 1,734 dots	
	Number of effective pixels	2,272 x 1,704 dots	
	Max Scanning Size	288 mm x 216 mm (11.3 in x 8.5 in)	
	Reading speed	3 frames/second	
	Scanner Output	—	Exif JPEG (2,272 x 1,704 dots)
	System Requirements	—	OS Compatibility: Windows®2000 Professional English Ver. (SP3 or more) , Windows®XP English Ver., USB Interface: USB2.0
Input terminal (image)	PC Input	15 pin Mini D-sub 1 ch	
	Video Input	RCA Pin Jack, 1ch, S-Video(Mini DIN 4Pin)1ch NTSC/PAL/SECAM/PAL-N/PAL-M/NTSC4.43 Compatible to D1, D2, D3 and D4 images (*1)	
Audio Input	PC Input	Stereo Mini Jack 1 ch	
	Video Input	RCA Pin Jack 1 ch	
Audio Output		2 W monaural	
USB Connector *2		—	1 system USB connector (Mini B type), USB2.0
Keystone Correction		Vertically ±15°(auto adjustable)	
Operating Range of Temperature and Humidity		Temperature: 0 to 35°C (32 to 95°F), humidity: 20 to 80% (no condensation)	
Power Source		100-120/220-240VAC, 50/60 Hz	
Power Consumption		310W (100-120VAC), 300W (220-240VAC)	
Input Current		3.1A (100-120VAC), 1.6A (220-240VAC)	
External Dimensions (mm/in)		290 (W) x 360(D) x 123(H) /11.4(W) x 14.2(D) x 4.8(H) (not including protrusions, Including the cover)	
Weight		5.0 kg (approx. 11.0 lbs.)	
Accessories		Power Cord (3 m/3.3 yd), RGB cable (2m, mini D-SUB 15 pins), Remote Controller, User's Manual, Battery (Coin-type Lithium battery:CR2025), Lens cap	Power Cord (3 m/3.3 yd), RGB + USB cable (2m, mini D-SUB 15 pins + USB), Remote Controller, User's Manual, Battery (Coin-type Lithium battery:CR2025), Lens cap
Lamp Kit		IPLK-G1	

*1 D terminal/RGB conversion cable is required for input of D1~D4 images.
*2 USB connectors are not guaranteed to work with all personal computers.



Length to the lower side of the projected screen.

Projection Distance



This product uses Pb free solder.

Caution

- ※ A DC type Super High pressure lamp is used in this projector and it is rare for the lamp to explode during use. The unit is also designed to forcibly turn off the lamp because there is a high possibility that the lamp will break if it is used beyond the limit of lamp usage time.
- ※ Light polarizing elements such as the light source lamp and other optical components are parts that have a service life. When used for a long time, repair and replacement will be necessary.
- ※ DLP and the DLP® logo are trademarks of Texas Instruments.
- ※ Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- ※ Company names and commodity names are trade names or registered trade marks of each company.
- ※ Specifications and designs are subject to change without prior notice in order to improve the product.

<http://www.avio.co.jp/>

NIPPON AVIONICS CO.,LTD.

Partner Business Department

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Phone: 81-3-5436-0625 Fax: 81-3-5436-0639

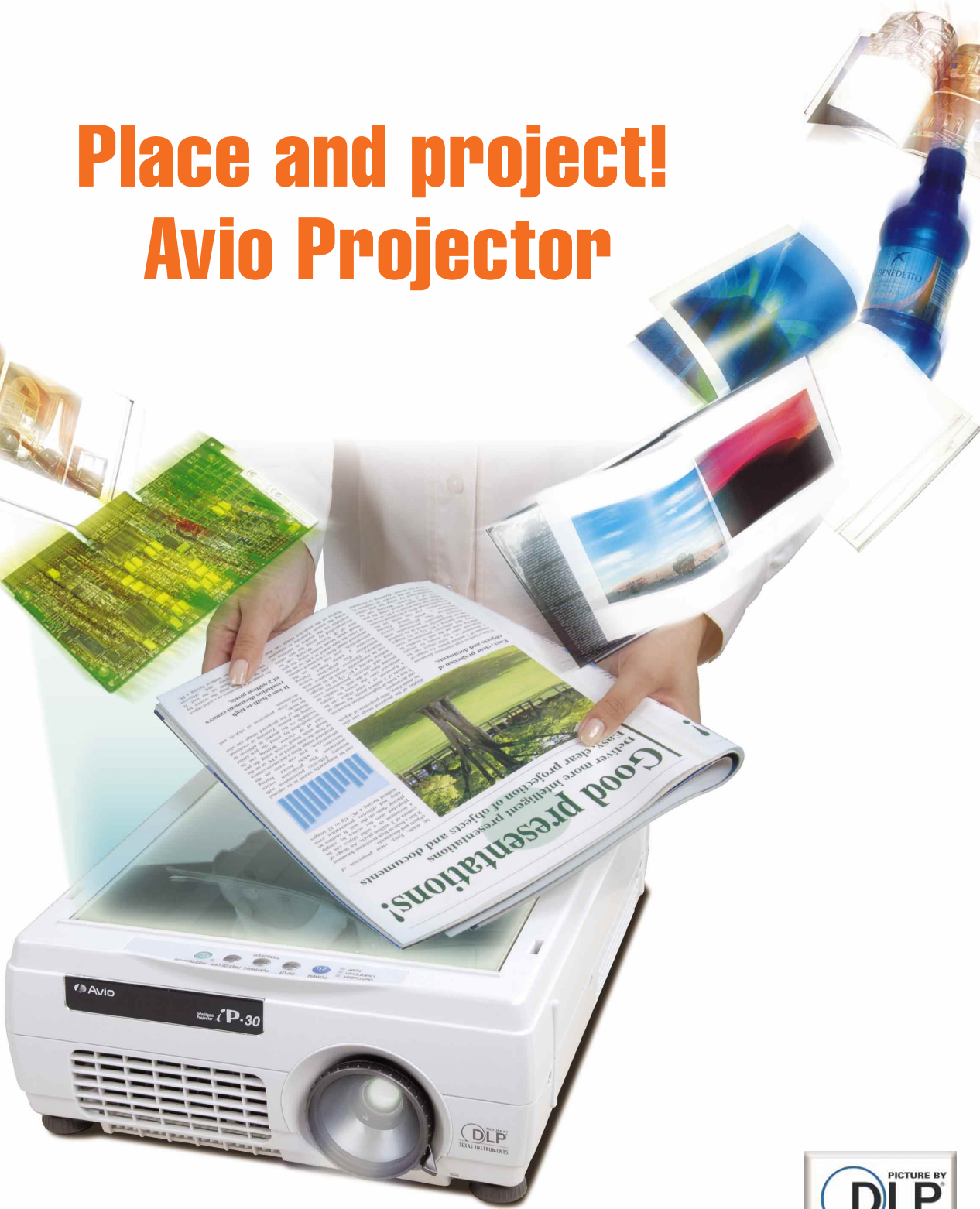
Projector with a built-in 4.13 million-pixel document camera / 2,500 ANSI Lumens



iP-30BE·30SE

Intelligent Projector

Place and project!
Avio Projector



NIPPON AVIONICS CO.,LTD.



A strong help in business and education

Intelligent Projector

NEW

iP-30BE-30SE

Advanced "ease of handling and ease of use"

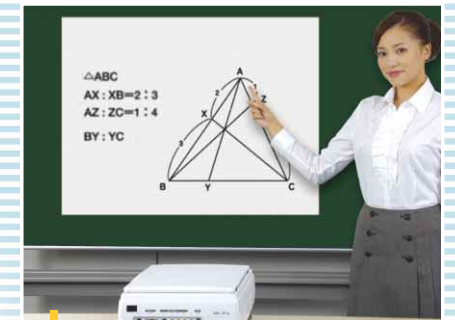
Compact size is realized even including a built-in document camera



20% reduction in volume
(Comparing to our previous model)



Useful in business meetings



Helps teachers in classrooms



Helps students to understand better

We use DLP® technology

2 models in the family

DLP® Technology

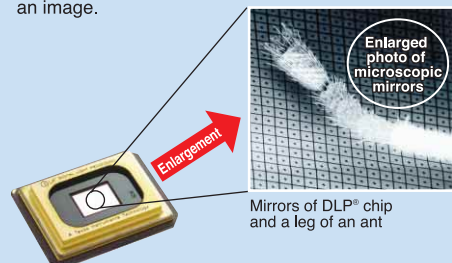
What is DLP®? (Digital Light Processing)

DLP®, developed by Texas Instruments (TI), is a unique imaging system where light is reflected on microscopic mirrors for projecting on a screen.

The mechanism of DLP® technology

The main component of the DLP® technology is the DLP® chip

The main part of the DLP® technology is the DLP® chip. The DLP® chip consists of a two dimensional array of 480 thousand to 2 million microscopic mirrors, and each mirror represents a pixel (image) to produce an image.



Mirrors of DLP® chip and a leg of an ant

Images are produced by ON or OFF of the mirrors

The secret of producing an image is a simple "ON" and "OFF" of the mirrors. When the mirror is "ON", the mirror tilts +12° to reflect light, and an image is projected onto a screen through a lens. On the other hand, when the mirror is "OFF", the mirror tilts -12° resulting the light from the lamp to be absorbed by the light absorbing panel and the screen becomes black. This ON/OFF switching is made in a high speed of a few thousand times per second. Such high speed switching helps to produce clear and smooth moving images or beautiful colorings.



The features of DLP® projectors

High contrast ratio where black stands out

White is more white, and black is more dark. Because the contrast between black and white is so clear in a DLP® projector, a clear image with deepness can be projected.



Allows lightweight and small size

By using the DLP® technology, the reduction in weight by approximately 1kg and in volume by approximately 20% is realized comparing to our previous model.

Line Up

Easy presentation by projecting PC images or actual object

iP-30BE

Basic model with simple operation

Built-in 4.13 million-pixel document camera
Projection of PC images and video images

XGA 1,024 x 768 native resolution

(Compatible display resolution: VGA-SXGA)

Brightness 2,500 ANSI lumens

Various presentation based on a built-in software

iP-30SE

Scanner function Whiteboard function

Multi functional model for complete features

**Troublesome preparation is no longer required
You will not lose a chance to give a presentation**

Intelligent Projector

NEW *i* **P-30BE** **Basic Model**

Built-in 4.13 million-pixel document camera / 2,500 ANSI Lumens



A meeting goes on smoothly

**Simply place a material
you want to show**

PC screen projection function

Images from a PC or video images can be projected

**As in the case of ordinary projectors,
it is equipped with a PC input terminal and a video input terminal.**

※ As long as the PC provides RGB output, no need to worry about the manufacturer or the type of OS.

Document camera function

● Presentation can be given even without having a PC

Labor and time to prepare presentation material can be saved.
Because you need not bring in a PC,
it contributes to security control.

● Easy presentation for everybody

Operation is so easy that you simply
have to place an object you want to
show on the glass window of the
projector.

● Document, book or product sample can be projected as it is

An article from a newspaper of that day
or a FAX message just received can be
projected immediately.

Documents or solid objects can be projected as they are

Basic functions pursuing the ease of use

Actual object projection function by a built-in high definition document camera

A CCD camera of 4.13 million-pixels is built-in. Anything placed on the glass window of the projector is projected as is on the screen. The newly developed ultra short focal distance flat field lens helps to produce a clear image without distortion in all corners on the screen.



**Clear images are realized
so that even small characters
of newspaper or magazine
can be clearly read**

**On the foundation stone of reliance
stands Avio's advanced technology**

How long has it taken for people to realize that "machines are supposed to function correctly?" Although this concept has become common sense, consumers may not understand the process of constant improvements while sustaining basic quality. The products of Nippon Avionics have been widely utilized because they stand on the foundation stone of "reliance", the proof of careful quality management. Based

**On the foundation stone of reliance
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i **P-30**

Other document camera

Basic Functions

Built-in memory function



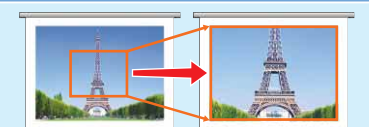
Projected images can be saved in the internal memory of the projector as a history. (Approximately 60 frames.) Saved images can be selected for display from the thumbnail screen.

Vertical/horizontal switched display



Vertically oriented image can be rotated 90°, and left/right size ratio is adjusted automatically.

Zoom · Scroll function



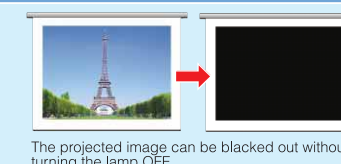
Zooming up to 25 times in area, when using the document camera, and up to 16 times in area, when projecting PC/video images, is possible, and the enlarged image can be scrolled.

Pointer function



A pointer can be displayed on the projected screen. The pointer type can be changed.

Blackout function



The projected image can be blacked out without turning the lamp OFF.

Still image display



Image from a PC (or a video) can be frozen and displayed as a still image.

Auto keystone correction

New



Trapezoidal distortion of a screen due to projection angle is adjusted automatically. (±15°, vertical only)

Blackboard mode

New



It is equipped with a mode which optimizes the color reproducibility when projected on a blackboard.

Direct power OFF

New



Cooling fan will keep turning even after turning the power of the projector OFF and disconnecting the power cable. You can start putting away the equipment immediately after the conference or the presentation is over. * Put the projector back into a container case only after the cooling fan has stopped.

Feature rich projector equipped with a PC interfacing function

Intelligent Projector

NEW **iP-30SE** Multi functional model

Built-in 4.13 million-pixel document camera / 2,500 ANSI Lumens

Images captured
by the document camera
can be transferred to a PC



PC interfacing function further expands your application

– iP Viewer –

With PC

Basic functions of

iP-30SE

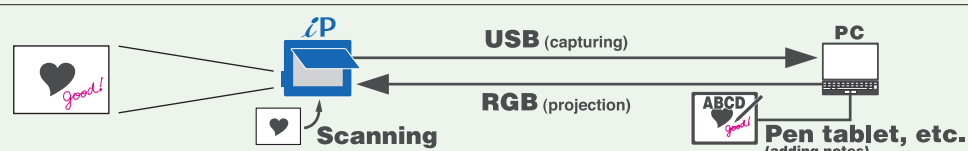


PC interfacing function

iP-30SE quickly turns into a "scanner" or a "whiteboard"! Easy-to-understand and convincing presentation can be given by saving images of documents or solid objects captured and projected by a document camera or writing over those images.

In order to activate above functions, OS of Windows®2000 Professional English version (SP3 or higher) or Windows®XP English version and USB2.0 port are required.

Connection
with
a PC



Transfer to PC

**Scanner
function**

Presentation
while
adding notes

**Whiteboard
function**

Saving images
with added notes

**Data saving
function**

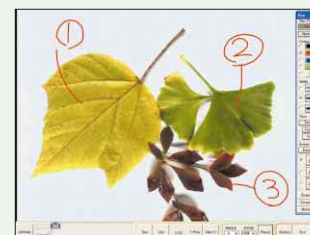
iP Viewer

This is a presentation software which automatically boots up by simply connecting iP-30SE and the PC via a USB cable. It enables transfer of images from the document camera to the PC or adding notes to the presentation screen.

Installation of the
software is not required

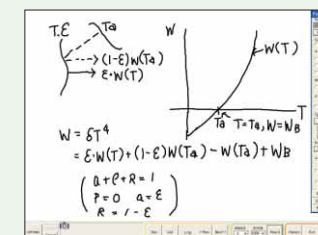
● Scanner function

Images from the document camera can be easily transferred to the PC.



● Whiteboard function

Presentation can be given while adding notes on an image captured by the document camera, on the data inside the PC, or on the whiteboard screen (white paper screen created inside the PC) by using the pen tool of the iP Viewer.



● Data saving function

Images of the presentation with added notes can be saved. It is useful for repeated use, printout or mail delivery.

