NEWS RELEASE

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Avio

October 16, 2009
Nippon Avionics Co., Ltd.
http://www.avio.co.jp/english/

Built-in Document Camera, Short Throw Lens, and Reasonable Price!

Sales Begin for the Intelligent Projectors 'iP-01UE' and 'iP-01BE'

Suitable for both educational classrooms and corporate meeting rooms

Tokyo, October 16, 2009 - NEC Corporation subsidiary, Nippon Avionics Co., Ltd. (Head Office: Tokyo, Japan, President: Shunichi Suzuki, Hereinafter: Avio) will formally release the "iP-01UE" and "iP-01BE" on November 2 as the latest models in the "Intelligent Projector- iP" series: the all-in-one projectors with a built-in document camera.

In addition to projecting PC and video/DVD images, as most other projectors currently available on the market do, our "iP" products also have a built in document camera which enables projection of printed paper, solid objects, photographs and transparencies as-is. Because of this additional feature, the "iP" products are becoming the standard projector for many businesses and schools to use in their classrooms, meeting rooms and conference rooms. Customer feedback notes on overall improvement in meeting and presentation effectiveness due to the products' multi-function capability.

These new models are equipped with a short throw lens enabling a shorter

projection distance from the screen (55% of previous "iP" models). Therefore, images can be projected on a large screen in small conference rooms and meeting spaces where it was difficult, if not impossible, to use a projector before. Furthermore, projector use in many classrooms is more easily accomplished by placing the projector on the teacher's desk and projecting directly onto a blackboard or a whiteboard. This eliminates the need to move desks around and project on special screens or boards.

The introduction of these two new models, allows for further improvements in implementing new ICT utilization methods of work efficiency improvement for various users and educational applications.

<Product Overview>

Product name	Model No.	Specifications	Release date	Remarks
Intelligent Projector iP Series	IP-01UE	Resolution: Native XGA Brightness: 2,500 Lumens	November 2, 2009	USB memory port
	IP-01BE			Basic Model

<Major Features>

(1) Built-in 3.15M pixel document camera

A high resolution document camera is built inside the projector allowing a document, photograph, textbook, magazine/newspaper, transparency or other solid object to be projected onto a large screen by simply placing it on the top glass.

All documents such as articles from the morning paper, or product brochures can be immediately projected onto a large screen. In addition to papers, other solid objects such as a product samples can also be projected.

A document placed on the glass on the top of the projector is directly projected onto a screen.

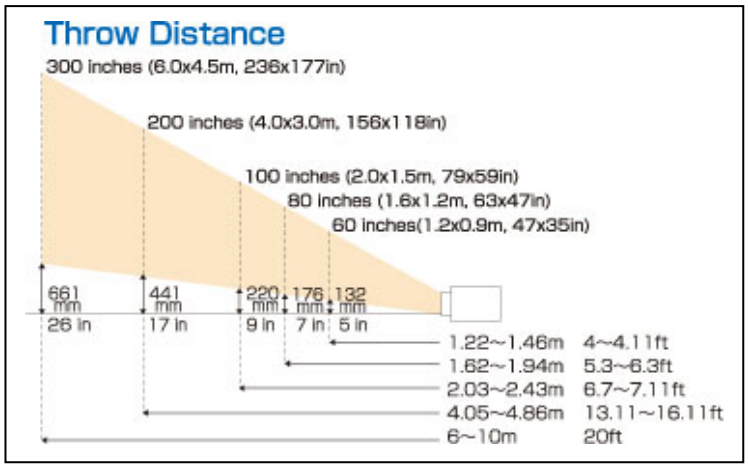
In a classroom, notebooks, printouts or textbooks on which students create work can be immediately projected onto a screen for the whole class to view. This leads to improved comprehension, understanding and concentration of all students. As noted above, solid objects such as models or plants can also be projected.

These projectors also contain many other basic functions of stand alone document cameras such as image rotation, which accommodates both portrait and landscape document orientations, and a digital zoom function which enables 25

times magnification of small print or items such as fine newspaper characters.

Like all standard projectors, these projectors can project PC and video/DVD media. Images from the various sources (internal document camera, PC or video/DVD) can be easily switched by a simple push of a button.

(2) Short throw lens



Images can be projected onto a large screen from a short distance. (the projector is set 1.2m from the screen for a 60 inch diagonal screen size.)

Small rooms are not a problem for sharing information on a large screen. In classrooms, the projector can be placed on the teacher's desk for projection onto the blackboard or the whiteboard, eliminating the need to rearrange the students desks.

(3) USB interface (available on the iP-01UE only)

If a presentation is stored on a USB memory device in advance it can be reproduced and projected without a PC.

*For reproduction from USB memory a special conversion software is required. (The conversion software can be downloaded from our website.)

*Only reading the data out (projection) and storing the data in the USB memory can be accomplished at the projector.

In addition an image captured and projected by the internal document camera can also be stored to the USB memory. The stored image data can be reproduced and/or transferred to a PC repeatedly and therefore can be conveniently used in preparation of meeting minutes or for later material review.

(4) Front located air vent

Because the air vent for the cooling fan is located on the front of the projector, people sitting nearby will not be bothered by the heat from the exhaust.

(5) 2,500 lumens brightness

A bright and clear image is projected- even with the lights on and curtains open. Brightly colored images are created from the DLP® method of using BrilliantColor™ technology allowing superior color reproducibility.

(6) Easy installation due to the all-in-one design

Because the document camera and USB interface are completely integrated, the

many functions of the unit can be performed without connecting multiple devices. Particularly in schools, the teacher is spared the trouble of collecting multiple pieces of equipment separately (such as the projector, document camera and PC), and setting them up (with many cables). As a result, classroom preparations can be completed during short break times.

*USB interface is available only with iP-01UE.

(7) Convenient and easy to use presentation support functions

Convenient presentation functions are available such as:

- Wide screen compatibility:

  Wide screen video images from WXGA (1,280x768 dots) PC input or DVD can be displayed.

- Direct power off:

  You can start packing up the equipment immediately after concluding the meeting or the presentation.

- Image "blank-out" function:

  Projection can be temporarily stopped without turning off the lamp.

- Pointer function:

  A pointer can be displayed on the projected screen and easily maneuvered by the remote controller.

- Still image function:

  Images from the PC (or video) can be stilled.

- Built-in speaker:

  5W mono speaker for output of sound from DVD or PC is built-in.

- Blackboard mode;

  Included mode which optimizes the color reproducibility of an image when the image is projected onto the blackboard.

For questions regarding the above, please contact;

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<Specifications>

Model		iP-01UE	iP-01BE
Type		1chip DLP® color wheel color separation method	
Panel	Size	0.55 inches DLP® Panel, Aspect Ratio 4:3	
	Number of Pixels	786,432 pixels (1,024 x 768 dots)	
Projection Lens		Manual Zoom: 1 to 1.2x	
Optical Source		260W Super High-pressure Mercury Lamp	
Screen Size		33 to 300 inches diagonal	
Projection Distance		0.7 to 6.1 m (approx. 26.4 in to 20 ft)	
Color Reproducibility		Full color (16,770,000 colors)	
Brightness		2,500 Lumens	
Contrast Ratio		1,500:1	
Scan Frequency		Horizontal 24.8 to 91.1 kHz, Vertical 50 to 85 Hz	
Resolution (At RGB signal input)		Native: 1,024X768 pixels (Maximum: Compressed display of 1,600 x 1,200 pixels is possible.)	
OHP Input/Output	Scanner / Camera	3.15 Mega-pixels color CMOS camera	
	Total Number of Pixels	2,048 x 1,536 pixels	
	Max Scanning Size	288 mm x 216 mm (11.3 in x 8.5 in)	
	Reading Speed	6 frames/second	
	Scanner Output	Exif JPEG (2,048 x 1,536 pixels)	None
Input terminal (image)	PC Input	15 pin Mini SUB-D 1 ch (Component Video)	
	Video Input	RCA Pin Jack 1 ch, NTSC/PAL/SECAM/PAL-N/PAL-M/NTSC4.43 Compatible to D1, D2, D3 and D4 images *1 (Common to PC)	
Audio Input	common to PC/video	RCA Pin Jack (L,R) 1 ch	
Audio Output		5W Mono	
Memory Interface		USB Memory Stick*2 (USB 2.0)	None
Keystone Correction		Manual ±15° Vertical Only	
Operating Range of Temperature and Humidity		Temperature: 0 to 35°C (32 to 95°F), Humidity: 20 to 80% (no condensation)	
Power Source (Switching Power Supply)		100-120/220-240V AC , 50/60 Hz	
Power Consumption		370W (100-120V AC), 370W (220-240V AC)	
Input Current		3.7A (100-120V AC), 1.7A (220-240V AC)	
External Dimensions		290 (W) x 405 (D) x 140 (H) mm /11.4 (W) x 15.9 (D) x 5.5 (H) in (not including protrusions)	
Weight		5.0 kg (approx. 11.0 lbs.)	

Accessories	Power Cord (3 m/3.3 yd), PC Connection Cable (2 m/2.2 yd, mini SUB-D 15 pins), USB Memory Stick (2 GB), Remote Control, User's Manual CD, Battery (Coin-type lithium battery:CR2025)	Power Cord (3 m/3.3 yd), PC Connection Cable (2 m/2.2 yd, mini SUB-D 15 pins), Remote Control, User's Manual CD, Battery (Coin-type lithium battery:CR2025)
Regulation	Meets FCC Class A Requirements Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3) CE	

*1 D terminal/RGB conversion cable is required for input of D1~D4 images.

*2 Avio optional USB memory sticks are guaranteed to operate. Other USB memory devices may not operate. Initial formatting of the USB memory using FAT 32 is required. Large numbers of recorded images may delay the speed of saving/playback.