abi

A Brighter Image P/L



Document Camera

JY-130B

(1.3 Megapixel Camera output resolution)



(850,000 pixel Camera output resolution)

USER MANUAL

Please read this manual carefully before operating the visual presenter and keep it for reference.

NOTICES: PLEASE READ CAREFULLY BEFORE USE

- Use the document camera under the rated electric conditions.
- Do not place the document camera on any unstable surface. It may fall and cause injures or damages.
- Do not place this device directly under sunlight or near heaters.
- Do not place this device near water.

- Keep the camera away from acid or alkali gas.
- Do not place this document camera in humid, dusty, windy or vibrant locations.
 - The recommended operating environment is: Temperature: 0°C--45°C(32°F-113°F)
 - Humidity: less than 75%
- Always unplug BEFORE cleaning the device. Use a damp soft-cloth for cleaning. Do not use volatile solvent.
- When this equipment functions abnormally, such as smoke, smell, noise, immediately unplug and call for professional assistance.
- Unplug the document camera or shut off the power when not in use.

CONTENTS

PART NAME AND FUNCTIONS:	
1. Appearance:	
2. Rear Panel	4
3. Front control panel	
SPECIFICATIONS:	6
SETTING UP:	7
OPERATION PROCEDURES	8
TROUBLE-SHOOTING:	9

SERVICE: Contact: A Brighter Image Pty Ltd Tel: 02.9938 6866 Fax: 02.9938 6899 Address: Unit H, 134-140 Old Pittwater Rd, BROOKVALE NSW 2100 Email: info@abimage.com.au Website: www.abimage.com.au

PART NAME AND FUNCTIONS:

1. Appearance:



- (1) camera control knob
- (4) main mechanical arm
- (2)sensor cover(5) side lamp
- (7) power switch (8) ba
- (10) base unit
- (8) base light
- (11) infrared receiver
- (3) upper mechanical arm(6) lighting arm
- (9) control panel

2. Rear Panel



- V1、L1、R1: Video & Audio Input
- V2, L2, R2 : Video & Audio Input
- VIDEO: Composite Video Signal Output
- S-VIDEO: S-video Output (YC synchronization sever)
- MIC : Microphone Input
- A1, A2 : PC Audio Input
- A OUT: Audio Output
- VGA OUT1、VGA OUT2: VGA Output
- VGA1、VGA2: VGA Input
- RS-232 : Serial Port (for Control System)
- USB : PC Signal Transmission (optional)

3. Front Control Panel:



- (1) . **HOME** : When the camera is in operating, press this button for 3 seconds, it will stop transmitting image and go to standby, if press for another 3 seconds, the camera will get back to work again.
- (2) . AV : Switch the input signal source (video1 or video2).
- (3) . **PC** : Switch between PC1 & PC2.
- (4) . AC : Perform white balance automatically.
- (5) . **BRT+、BRT -** : Image brightness control.
- (6) . SHARPNESS+, SHARPNESS : Image sharpness control.
- (7) . P/N : Switch the image mode between positive and negative.
- (8) . LAMP : Lamp control, switch the lighting mode as up lamp down lamp- all turned off up lamp, etc.
- (9) . **AF** : Auto focus button.
- (10) . **ZOOM+/ ZOOM -** : Image zoom in and zoom out control.
- (11) . FOCUS+/FOCUS : Adjust focus manually.
- (12) . **FRZ** : Image control, switch between shoot and freeze.
- (13) . **FN:** Function button, using with other buttons for special functions.

Control with FN button

(1) . **FN + LAMP** : Switch the image between text mode and dynamic mode. Text mode gives sharper and

better-colored images when showing printed material.

- (2) . **FN + BRT+**, **FN + BRT -** : Image chroma control (red).
- (3) . **FN + SHARPNESS+**, **FN + SHARPNESS -** : Image chroma control (blue).
- (4) . FN + ZOOM +, FN + ZOOM : MIC volume control.
- (5) . **FN + PC** : Capture the image in the screen. (Available for models with image capture function).
- (6) . FN + AV : Multi-image mode enabled ; (Available for models with image capture function)Press again to return to normal mode.

In multi-image mode:

ZOOM+: Display the first image.

- FOCUS : Display the second image.
- **ZOOM -** : Display the third image.
- **FOCUS +** : Display the fourth image.
- **FN+AF** : Images page turning.
- (7) . **FN + FOCUS -** : Output right-and-left mirror image.
- (8) . **FN + FOCUS +** : Enable the function of side-by-side images comparison on same screen.

SPECIFICATIONS:

Power supply			12V DC power adapter
Maximum power consumption		ption	20 W
	Temperature	$0 - 45^{\circ}$ C	
Operating condition		Humidity	5%75%
Dimensions(packing case))	465mm×430mm×220mm (W×D×H)
Weight			5.5 kg
Light source			LED
Compliance			FCC , CE
Input	Audio		2 x , <2.0 Vp p
	Video		2 x , <1.0 Vp p/75Ω
	Signal system		PAL
	VGA (PC)		2x
Output	Audio		1 x , <2 Vp p
	Video		1 x , <1.0Vp p/75Ω
	Signal system		PAL
	VGA (PC)		2X
	Video output		RGBHV
	Sensor		CMOS image sensor
	Total pixel		1,300,000
	Focus		Auto/manual
Camara	Zoom		> 12X
Camera	Scan frequency		48 KHz (horizontal), 60 Hz (vertical)
	Images side-by-side comparison		Manual
	Brightness adjustment		Manual
	Text/dynamic mode switch		Manual
	Minimal surrounding illumination		4 Lux/ F 1.8 (maximum gain)

SETTING UP:

- Unpack, put aside all packing materials. Unfold the lighting arms until reach the end position.
- 2. Raise the camera arm completely.
- Rotate the camera head until the lens face the center of the base unit.
- Connect RGB interface: use the provided RGB cable, connect the output of the document camera with the RGB input the display (monitor, television or projector).
- Connect the composite video-in interface: use the provided RCA pin cable.
- Connect the S-video-in interface: connect the S-video-out interface (mini DIN 4P) with the S-video-in interface of the display.
- Plug the power cord into the power cord receptacle of the document camera and the AC outlet.



OPERATION PROCEDURES:

1.General:

- 1). Turn on the Power switch.
- 2). Place the target object on the base unit surface.
- 3). Adjust the image size according to the object size by pressing the ZOOM+/ ZOOM buttons on the control panel.
- 4). Press the "AF" button for automatic focus.
- 5). " Frz" button can be used to lock the image while changing displaying materials.

"FN" and "FRZ" button can be used to compare a previous captured image with the current image side by side.

Turn the knob on the camera head will changing the alignment of the showing image.

2. Showing printed material:

For sharper image and more vivid color, choose the Text mode by pressing "FN" and "P/N" button.

3. Showing the 3D objects:

Use the "FOCUS+/FOCUS - " buttons on the front panel to adjust the focus on any part of the 3D object.

4. Showing the transparent material such as an overhead transparent sheet:

Press the "Lamp" button until the built-in base light lights up.

TROUBLE-SHOOTING:

Symptoms	Possible causes/counter-measures	
No image	1. Power cord is not properly connected.	
	2. Cables are not properly connected.	
	3. Power switch is not turned on.	
	4. The built-in fuse is broken: Change fuse.	
Upper light not on	1. The filament is broken. Change the bulb.	
	2. the lamp is not fully plugged in its holder:	
Out of focus or blurring	1. The object is too close to the lens.	
image	2. Focus is on the max. point of "Tele" press "Wide".	
	3. Auto-focus is not on: press AF again.	
	4. Fog on the lens in damp climate. It will disappear	
	gradually when the equipment warms up.	

If the problem still remains after checking the above, consult your dealer or authorized service personnel.

PACKING LIST AND ACCESSORIES:

Item	Quantity
Power cord	1
VGA Cable	1
USB Software CD	1
User Manual	1
Spare Fuse	1(installed in the power receptacle)