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# EYE SAFETY WARNINGS

Avoid staring/facing directly into the projector beam at all times Keep your back to the beam as much as possible.

A stick or laser pointer is recommended to avoid the need for the user to enter the beam

> When projector is used in a classroom, adequately supervise students when they are asked to point out something on the screen.

In order to minimize power, use room blinds to reduce ambient light levels.

#### IMPORTANT SAFETY INSTRUCTION

- 1. Do not block any ventilation openings To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow
- 2. Do not use the projector near water or moisture. To reduce the risk of fire and/ or electric shock, do not expose the projector to rain or moisture.
- 3. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat
- 4. Do not use the projector in direct sunlight.
- 5. Do not use near any appliance generating a strong magnetic field.
- 6. Do not use the projector in areas
- susceptible to excessive dust and dirt. 7. Turn off the product before cleaning.
- 8. Turn off the product before removing the battery
- 9. Disconnect the battery if the product is not being used for a long period of time. 10. Ensure that the ambient room
- temperature is within 5-35°C 11. Relative Humidity is 5 - 35°C, 80%
- (Max.), non-condensing. 12. Do not expose the battery to
- temperatures above +60°C (+140°F) 13. New or idle batteries can have short-
- term reduced capacity. Fully charge the battery before initial use
- 14. Do not put the battery into your mouth.
- 15. Do not let the battery contacts touch another metal object.
- 16. Do not drop, throw or try to bend your product.
- 17. May explode if disposed of in fire.
- 18. Clean only with dry cloth.

- 19. Only use attachments/accessories specified by the manufacturer.
- 20. Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
  - Unit has been dropped.
  - Charger or plug has been damaged.
    Liquid has been spilled on to the
  - projector.
  - Projector has been exposed to rain or moisture
  - Something has fallen in the projector or something is loose inside

Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please contact your local reseller or service center before you send the unit for repair.

- 21. Do not let objects or liquids enter the projector. They may touch dangerou voltage points and short out parts that could result in fire or electric shock.
- 22. See projector enclosure for safety related markings.
- 23. The unit should only be repaired by
- appropriate service personnel. 24. Do not touch the projector for a long
- time while the projector is used.
- 25. CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type
- 26. Dispose of Used Batteries According to the Instructions.

#### REGULATION & SAFETY NOTICES

This appendix lists the general notices of your Projector.

#### FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna
- · Increase the separation between the device and receiver. Connect the device into an outlet on
- a circuit different from that to which the receiver is connected
- · Consult the dealer or an experienced radio/television technician for help.

#### Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

#### Caution

Changes or modifications not expressly approved by the manufac-turer could void the user's authority, which is granted by the Federal Communications Commission, to operate this device.

#### Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful

- interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

#### Notice: Canadian users

This Class B digital apparatus complies with Canadian

Remarque à l'intention des utilisateurs canadiens Cet appareil numerique de la classe B est conforme a la e NMB-003 du Canada

Declaration of Conformity for EU countries EMC Directive 2004/108/EC (including

- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

# DISPOSAL OF OLD ELECTRICAL & **ELECTRONIC EQUIPMENT**

(Applicable throughout the European Union and other European countries with separate collection programs)

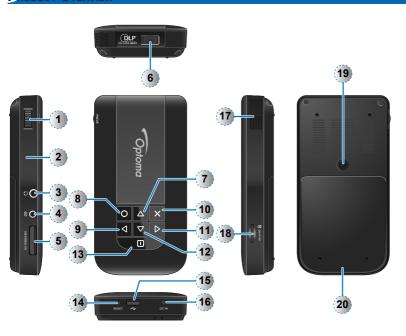
This symbol found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources.



This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.



## PRODUCT OVERVIEW



- 1. Focus Dial
  - Speaker
- Audio Out Connector
- 4. AV Input Connector
- VGA Input Connector
- 6. Lens
- 7. Up Button (△)
- 8. OK Button (O)
- 9. Left Button (◄)
- 10. Cancel / ESC Button (x) 11. Right Button (▷)
- 12. Down Button (♥)
- 13. Power / Home Button (1) 14. Reset Button
- 15. Micro USB port
- 16. DC Input
- 17. Air vent
- 18. MicroSD card Slot
- 19. Screw Hole for Tripod Converter
- 20. Battery Cover

<Note> Items 7~12 are also function buttons. Functions vary depending on the current

1. Remove the battery cover. (①~③) 2. Align the battery contacts with the contacts in the battery compartment. (4) 3. Completely insert the battery with the battery pull tab extending underneath. (3) 4. Slide the battery cover back into place with the battery pull tab inserted inside. (6~7)

# PACKAGE OVERVIEW



<Note>

<Note>

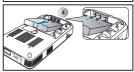
The standard accessories may vary in

each region due to different applications.

The inclusive power plug head varies per

## INSTALL THE BATTERY









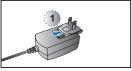
- Standard Accessory
- 1. Power adaptor with AC Plug
- 2. VGA Cable
- 3. USB Male Cable
- 4. Battery
- 5. AV Cable
- 6. Carrying Case
- 7. Warranty Card and Quick Guide
- 8. Extra Bezel

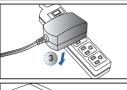
#### Optional Accessory

- 9. iPod Connection Kit
  - a. USB cable for iPod Connector b. iPod Cable

  - c. iPod Connector
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#### CHARGE THE BATTERY







When the LED indicator lights red, the battery is low. Replace the battery immediately or connect the power adapter to charge the battery.

- 1. Insert the plug. (1)
- 2. Connect the charger. (2~3)
- 3. During charging, the LED indicator lights amber. (4)
  - The battery will not charge while the projector is operating. Turn the projector off.
- 4. The LED Charge Indicator lights green when the battery is fully charged. This process may take up to 2.5 hours.

1. For LED indicator information, see page 18

2. After the projector is turned off, the battery may not start charging right away due to over temperature protection. The projector will automatically start charging once it cools off.

 The battery has a lifespan and ages every time it is charged and discharged. It will gradually loose its charging capability as I it ages. Replace the battery at the end of its

# SWITCH ON / OFF

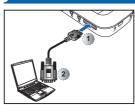


Press the Power button for 3 seconds to switch the projector on or off.

For first time use, the Language screen

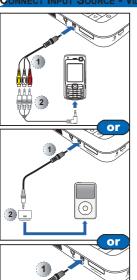
- 1. Highlight the desired language.  $(\Delta \nabla \Delta D)$
- 2. Select the item. (O)

#### CONNECT INPUT SOURCE - VGA



Connect the VGA device. (①~②) ♠ Insert the universal connector with the arrow mark facing up.

#### CONNECT INPUT SOURCE - VIDEO IN



0

- 1. Connect the AV input source.
- 2. Connect external speakers to the audio out connector of the projector. (3)

#### <Note>

- 1. All other brand and product names are trademarks or registered trademarks of their respective companies
- 2. The cables connecting the video output devices are not supplied, please contact the
- device vendor. 3. iPod nano/iPod touch/iPhone/iPod classic (version 5 and above)
- Designed for iPod/iPhone/Mobile phone/ PMP with TV out functions. Using with
- devices with audio signal voltage > 0.3Vrms is not recommended 5. The optional USB cable for iPod
- Connector is used to charge the iPod device using a computer

#### ONNECT INPUT SOURCE DATA TRANSFER



Connect a laptop or PC using the supplied Male USB Cable to transfer data to the Projector internal memory or the inserted microSD card. After connecting, switch the projector on.

#### <Note>

The laptop/PC can only detect the input source when the projector is switched on. The projection will stop when this connection is made.

# INSERT MICROSD CARD



PK120 is designed to project image from the internal memory or via a microSD card.

Insert a microSD card into the slot with the gold contacts facing down.

#### <Note>

- · To remove the microSD card, push the card to eject it from the slot.
- · Do not remove the microSD card while the projector is projecting image from the card. This can cause data loss or



2

Download from Www.Somanuals.com. All Manuals Search And Download epports microSD card size up to 32GB.

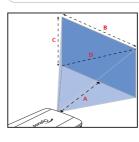
# USE A TRIPOD STAND

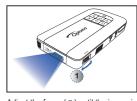


Screw a standard tripod into the screw hole on the projector.



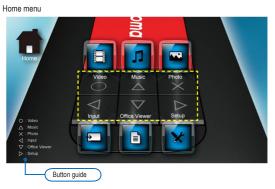
Projection I	Distance (A)	Screen Size -	Width (B)	Screen Size - I	leight (C)	Screen Diag	onal (D)
Meter	inch	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
0.500	19.7	227	8.9	128	5.0	261	10.3
0.700	27.6	318	12.5	179	7.0	365	14.4
0.975	38.4	443	17.4	249	9.8	508	20.0
1.500	59.1	682	26.8	384	15.1	782	30.8
2.000	78.7	909	35.8	511	20.1	1043	41.1
2.500	98.4	1136	44.7	639	25.2	1304	51.3
3.215	126.6	1461	57.5	822	32.4	1677	66.0

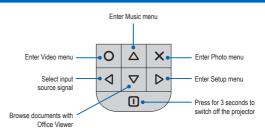




Adjust the focus (1) until the image is clear.

# How to Use the Menu





- Press the corresponding button of the desired option.
- Press X to go back a previous screen.
- Press to return to the Home menu.
   Or, press for 3 seconds to switch off the projector.

<Note>
A button guide appears on the lower left corner of most screens. The guide varies depending on the current mode. Press the corresponding button to select the option or operation.

Items ·····



Video menu



Music menu



Photo menu



Input source screen



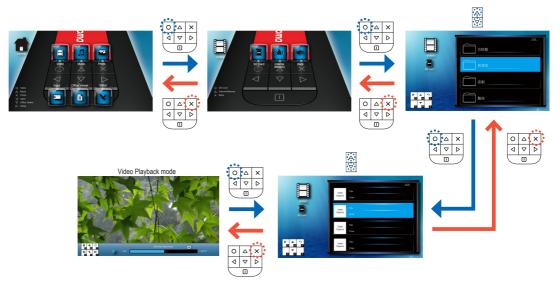
Office Viewer menu



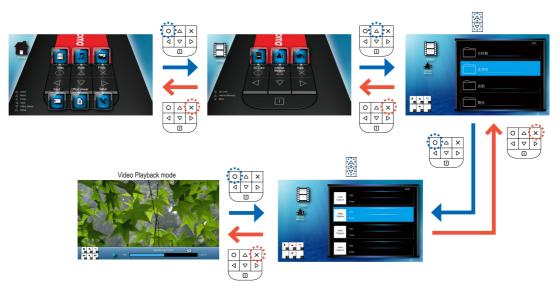
Setup menu

## How to Play Videos - Source: Internal Memory / MicroSD Card

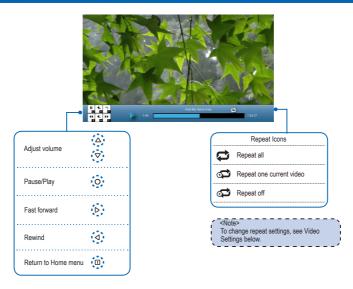
Playing Videos from the MicroSD Card



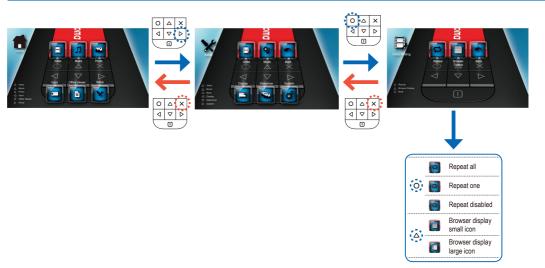
Playing Videos from the Internal Memory



# How to Play Videos - Playback Mode



# VIDEO SETTINGS



# COMPATIBILITY: VIDEOS

Compatible Video Format

Compatible video i cimat				
File Format	Video Format	Max Res.	Profile	
AVI MOV MP4 3GP	H.264 MJPEG H.263-	D1 30fps	Baseline	

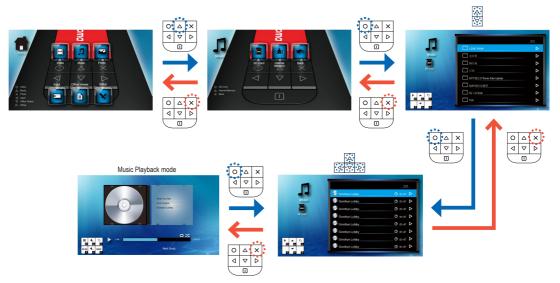
File Format	Video Format	Max Res.	Profile
AVI 3GP MOV WMV	MPEG4	D1 30fps	Simple Profile
AVI WMV	Xvid	D1 30fps	Baseline

File Format	Video Format	Max Res.	Profile
AVI MOV	MJPEG	800x480 30fps	Baseline
FLV	Sorenson Spark	800x600 30fps	Baseline

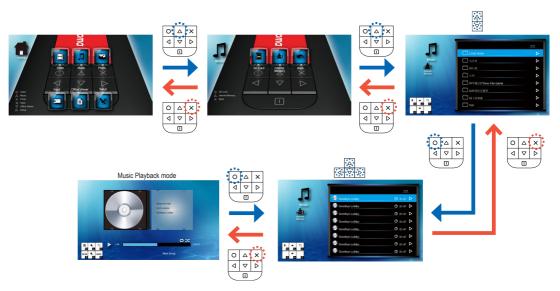
<Note>
Video format does not support content with B-Frame function.

## How to Play Music - Source: Internal Memory / MicroSD Card

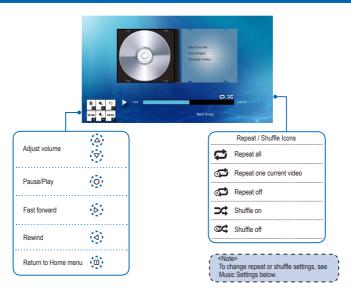
Playing Music from the MicroSD Card



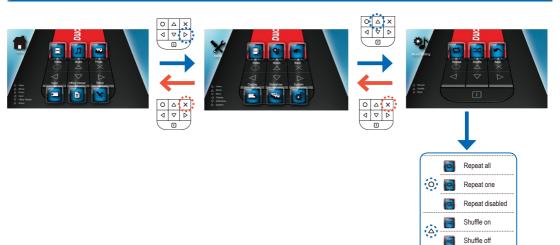
Playing Music from the Internal Memory



# How to Play Music - Playback Mode



## Music Settings

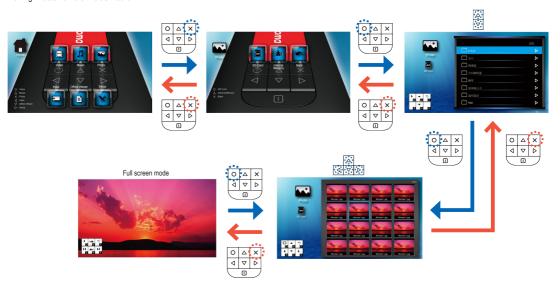


# COMPATIBILITY: MUSIC

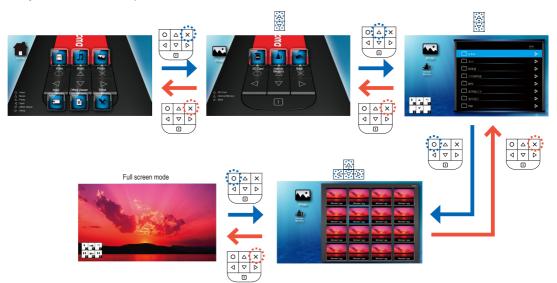
Compatible Audio Format
File Format
AAC
MP3
PCM
ADPCM
WMA
AMR
APE
Vorbis
Down

## How to View Photos - Source: Internal Memory / MicroSD Card

Viewing Photos from the MicroSD Card



Viewing Photos from the Internal Memory



### COMPATIBILITY: PHOTO

Compatible Photo Format

File Format	File Extension	<note></note>
BMP	*.bmp,	PK120 su resolution
JPG	*.jpg	Bitma
JPEG	*.jpeg	• Jpeg

| <Note>
PK120 supports the following photo resolution:
Bitmap file up to 2M (megapixels)
Jpeg file up to 7M (megapixels



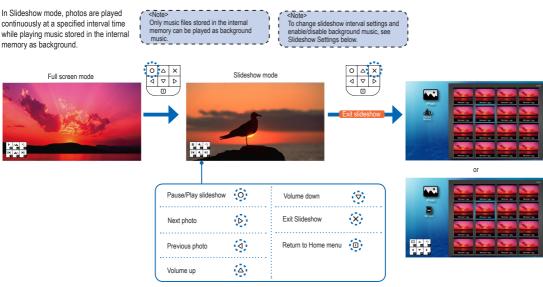
## How to View Photos - Mode: Full Screen / Slideshow

Full Screen Mode

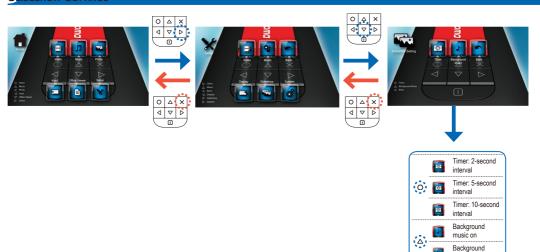


#### Slideshow Mode

continuously at a specified interval time while playing music stored in the internal memory as background.



#### SLIDESHOW SETTINGS



music off

## How to View Documents - Source: Internal Memory / MicroSD Card

Viewing Documents from the MicroSD Card



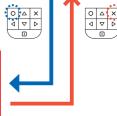












Viewing Documents from the Internal Memory



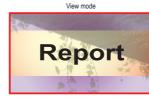


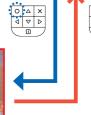






◁▽





## COMPATIBILITY: DOCUMENT

PK120 uses Picsel File Viewer to open and view Microsoft® Word files and Adobe® PDF files.

### Supported Versions

apported versions			
Version			
Microsoft® Word 95			
Microsoft® Word 97			
Microsoft® Word 2000			
Microsoft® Word 2003			
Microsoft® Word 2007			
Adobe® PDF 1.0 ~ 1.4			
	_		

#### Compatible Document Format

File Format	File Extension
Microsoft® Office Application (Word, Excel, Power Point) HTML Adobe® PDF	.doc .docx .ppt .pptx .xls .xlsx .htm .html

# Font / Language Support

PK120 has limited font support. When a document with unsupported font is opened, Office Viewer automatically substitutes the unsupported font. This may cause the document layout to look different. If no font substitutions are available, the text are displayed as blanks.

<no< th=""><th>ote&gt;</th></no<>	ote>
•	Office Viewer supports embedded for
	in Adobe®PDF documents but not in

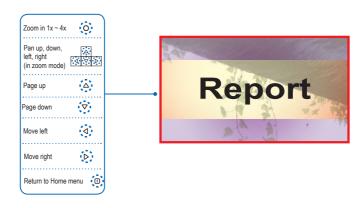
onts

Dutch	
English French German (Deutsch) Italian Japanese Korean Polish (Polski)	lberian Portuguese Spanish Swedish (Svenska) Traditional Chinese Simplified Chinese Russia Greek

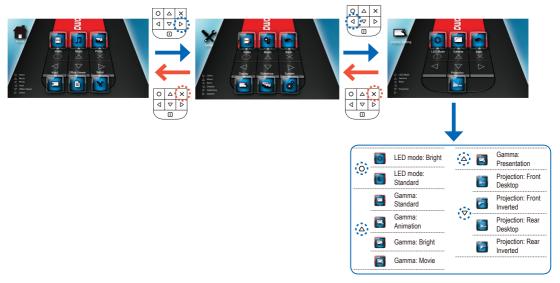
PK120 supports one default font for each language.



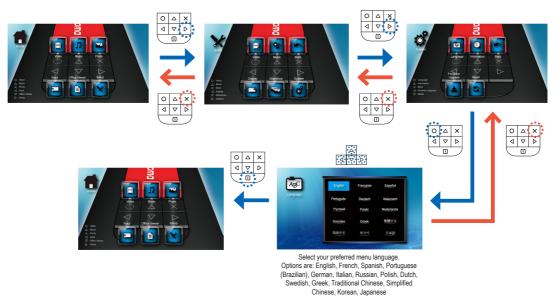
# How to View Documents - View Mode



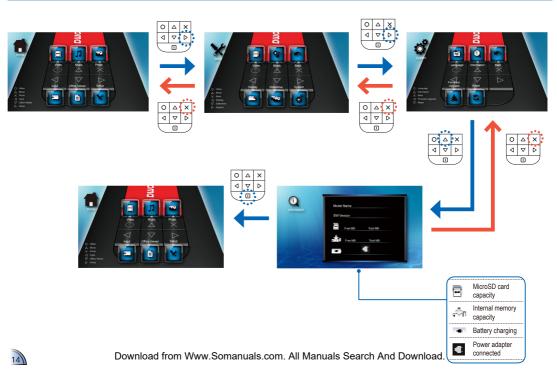




# SELECT MENU LANGUAGE



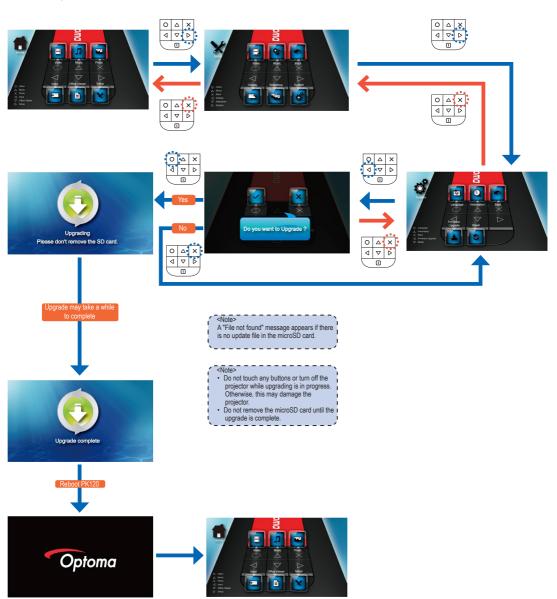
## VIEW PROJECTOR INFORMATION



# Upgrade Firmware

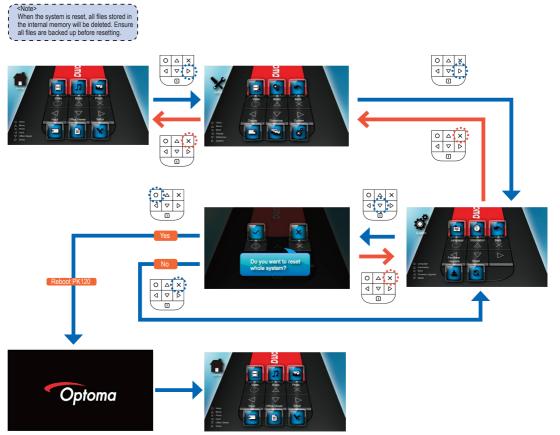
Software updates can be obtained from the OPTOMA website (<a href="www.optoma.com">www.optoma.com</a>).

- On your computer, create a folder named "upgrade".
- Download the latest firmware from www.optoma.com and save it in the "upgrade" folder.
- 2. Copy the "upgrade" folder to the root folder of the microSD card.
- 3. Insert the microSD card into the microSD card slot of the projector.
- 4. Follow the steps below.

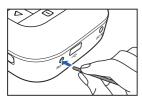


# RESET THE SYSTEM

Resetting the System by Reset Menu



Resetting the System by Reset Button



Use the Reset button to perform a hard reset on your projector.

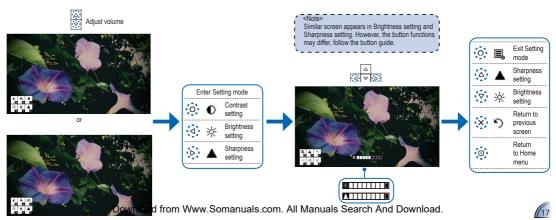
- Push the Reset button using a pointed object such as a tip of a pen or a paper clip.
- The projector resets the system and shuts down. Press for 3 seconds to reboot the projector.

# How to Use External Input Source: VGA / Composite AV

Switching Input Source .....

Once a video source device is connected to the projector and turned on, PK120 detects the video source. To manually switch the input source, do the following: <u>о</u> 🛆 х OΔX ◁▫▽ D  $\nabla$ or 0 A X VGA No Signal 0 △ X 0 A X ◁▽ 0 A X 0 ∇ ▷ Ο or Exit the input source and return • to Home menu from any point

#### Adjusting Input Source Settings



### OMPATIBLE VIDEO / VGA MODE

Timing Table					
Mode	Resolution	V-Sync (Hz)			
	640x480	60			
VGA	800x600	60			
VGA	1024x768	60			
	1280x768	60			
	480i / 480P	60			
Video le	576i / 576P	50			
Video In	720P	50 / 60			
	1080i	50 / 60			

<Note> Video format does not support content with B-Frame function

#### ROUBLESHOOTING

If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local retailer or service

#### Image Problems

### 1 No image appears on-screen

- · Ensure the cables/charger/ battery are correctly and securely connected.
- · Ensure the pins of connectors are not crooked or broken.
- · Make sure the projector is switched on.

#### Image is out of focus

- · Adjust the Focus Dial.
- · Make sure the projection screen is between the required distance 9.6 to 126.6 inches (0.245 to 3.215 meters) from the projector. See page 5.
- Image is too small or too large
  - · Move the projector closer to or further from the screen.

## Image is reversed

· Select "Setup --> Display --> Projection" from the OSD and set the projection direction.

#### Audio Problems

#### No sound

· During video or music playback, press the button.

#### **Battery Problems**

- Pattery capacity is low
  - · Remove the battery and clean the connectors
  - · The battery is worn out and needs to be replaced.
  - · The battery may not charge correctly after the projector is turned off due to the high temperature emitted by the projector. Let the projector cool for a while before connecting the charger.

#### LED Indicator

į	LED Color	Description
	No light	In operation
	Amber	Battery charging
	Green	Charge complete
	Gleen	Transferring data
	Red	Battery low
	Red (flashing)	Overheat; The projector temperature exceeds 80°C.

#### <Note>

- · The LED flashes red when the projector temperature reaches 80°C. It is recommended to switch off the projector to allow it to cool down.
- · When the projector temperature reaches 85°C, the projector automatically shuts down due to the built-in temperature protection. This is not a malfunction. Let I the projector cool down before switching it on again.

#### Clause for Office / Document Viewer

The End User may not:

- · make copies of the Picsel Products or make them available for use by third parties.
- · reverse engineer, disassemble, reverse translate, or in any way decode the Picsel Products or any copy or part of it in order to derive any source code. Save only as is permitted by any applicable law.

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Optoma reserves the right to make technical changes. Optoma assumes no liability for damages incurred directly or indirectly from errors, omissions, or discrepancies between the device and this documentation.

Other brands or logos are trademarks or registered trademarks of their respective companies.

This device is not intended for use in the direct field of view at visual display workplaces.



#### CHNICAL SPECIFICATION

PK120 Specifications		
Optical Specification	on (Panel)	
Manufacturer	Texas Instruments	
Туре	DLP® 0.2 nHD DMD	
Size	0.22 inches (diagonal)	
Display pixels	640 x 360	
Projection image size	10" ~ 60"	
Throw ratio	2.2	
Horizontal scan rate	31.5 ~ 48.4 KHz	
Vertical scan rate	50 / 60 Hz	
Aspect ratio	4:3, 16:9, Auto	
Parameters		
Internal memory	2GB NAND Flash	
External memory	micro SD card (up to 32 GB)	
Brightness	Bright mode: 12lm STD mode: 8lm	
Luminance Uniformity (JBMA)	50% (Minimum) 60% (Typical)	
Contrast Ratio	1200:1 (Typical)	
Projection Offset	100%	

/O Connectors		
Universal (24-pin) to VGA IN x 1		
Composite V	lideo / Audio (Φ 2.5mm) x 1	
mic	roSD card slot x 1	
Audio output (Φ 3.5mm) x 1		
Micro USB x 1 (for data transfer / charging)		
Input Signal Specification		
Analog RGB signal (PC)	<ul> <li>Analog RGB 0.7 +/- 0.1</li> <li>Vp-p, 75 ohm</li> <li>Separate TTL, H, V Syno</li> </ul>	
Video signal	NTSC / PAL Compsite video 1.0 +/- 0.1 Vp-p, 75 ohm	
Audio signal (Share with AV input jack)	300mVrms, 22K ohm	
AV-IN	Audio input: 0 ~ 1 Vrms Video input: 0.5 ~ 1.8 Vp-p	
Output Signal Specification		
Micro USB X 1	(Device/Battery charge) Host support < 150mA 5V	
Audio out	3.5Ψmm jack	
Speaker	Built-in stereo speaker 0.5W x 2	

NTSC	NTSC M/J 3.58MHz, 4.43MHz	
PAL	PAL B/D/G/HI/M/N, 4.43MHz	
SDTV	480i, 576i	
RGB	480i / 480P, 576i / 576P	
mputer Compa	tibility	
VESA standard	ds, PC & Macintosh compatible	
ysical Specifications		
Weight	145g (with battery)	
Dimensions (L x W x H)	117 x 60 x 21 mm	
(L x W x H)	117 x 60 x 21 mm 2.5 hours	
(L x W x H) Charging time	2.5 hours  Video: 80 min (high brightness)	
(L x W x H) Charging time Operating time Operating	2.5 hours  Video: 80 min (high brightness)  Music: 4.5 hours	

0 ~ 1829 m (0 ~ 6000 feet) above sea level

Power Specifications	
Battery	3.7V, 1800mAh
Power supply	5V, 2A, 110 ~ 240V
Charging time	2.5 hours
Battery operating temperature	Charge: 0° ~ 45°C Discharge: -20° ~ 60°C

Specifications are subject to change without prior notice.





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