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TRADEMARKS

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THE MARK OF CROSSED-OUT WHEELED BIN INDICATES THAT THIS PRODUCT MUST NOT BE DISPOSED OF WITH YOUR OTHER HOUSEHOLD WASTE. INSTEAD, YOU NEED TO DISPOSE OF THE WASTE EQUIPMENT BY HANDING IT OVER TO A DESIGNATED COLLECTION POINT FOR THE RECYCLING OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT. FOR MORE INFORMATION ABOUT WHERE TO DROP OFF YOUR WASTE EQUIPMENT FOR RECYCLING, PLEASE CONTACT YOUR HOUSEHOLD WASTE DISPOSAL SERVICE OR THE SHOP WHERE YOU PURCHASED THE PRODUCT.

Remote Control Battery Safety Information

- Store batteries in any cool & dry place.
- Do not dispose used batteries in domestic waste. Dispose batteries at special collection points or return to stores if applies.
- Remove the batteries if they are not in use for long period of time. Battery leakage and corrosion can damage the remote control, dispose batteries safely.
- Do not mix and use old and new batteries.
- Do not mix and use different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose batteries in a fire.
- Do not attempt to short circuit the battery terminals.

Remote Control Class 2 Laser Product

LASER RADIATION
DO NOT STARE INTO THE BEAM
CLASS 2 LASER PRODUCT

Table of Contents

AVerMedia

Introduction

Thank you for purchasing the AVerMedia® AVerVision CP355.

AVerVision CP355 is integrated with 5X optical zoom and wide angle technology to increase the area of visibility. You can use this to display documents, negatives, transparencies, and 3D objects onto a TV, LCD or DLP projector making presentations a snap.

AVerVision CP355 is an ideal presentation tool for business, academic, medical and the scientific community.

Package Contents
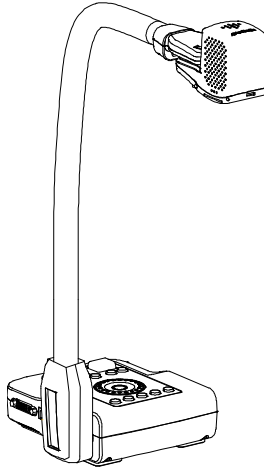
AVerMedia® AVerVision CP355
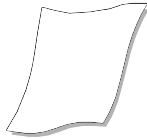
Anti-glare Sheet

Bag
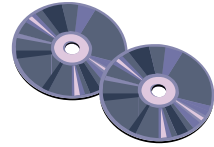
Software & Manual CD
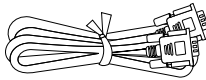
RGB Cable
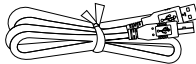
USB Cable

Remote Control (batteries included)
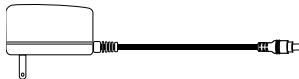
Power Adapter

* The power adapter will vary depending on the standard power outlet of the country where it is sold.

S-Video/RS-232 Cable

AVerMedia

1

Optional Accessories
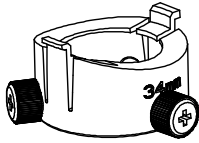
34mm Microscope Adapter
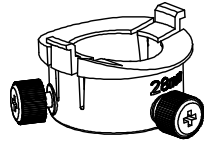
28mm Microscope Adapter
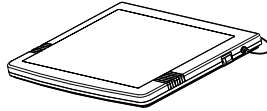
Light Box

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AVerVision CP355 Parts

The illustrations below identify the parts of AVerVision CP355.

(1) Camera head
(2) LED light
(3) Camera lens
(4) LED light switch
(5) IR sensor
(6) Control panel
(7) Right panel
(8) Gooseneck
(9) Rear panel
(10) Left panel
(11) Label slot

(8)
(1)
(2)
(3)
(4)
(9)
(5)
(6)
(7)
(10)
(11)
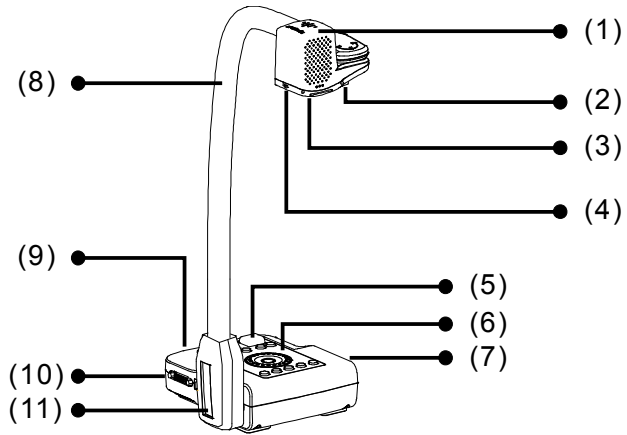
(12) DC 12V port
(13) Antitheft slot
(14) Camera head holder

Right Panel

(13)
(12)
(14)
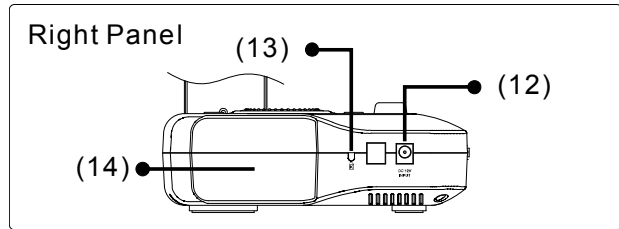
(15) S-Video output port
(16) Composite video output port
(17) RGB input port
(18) RGB output port

Rear Panel

(17)
(18)
(15)
(16)
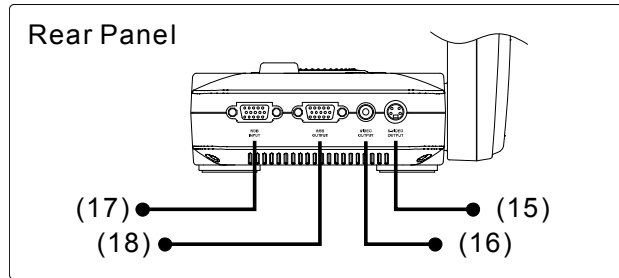
(19) TV-RGB switch
(20) USB port
(21) DVI-I output port

Left Panel

(19)
(20)
(21)

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3
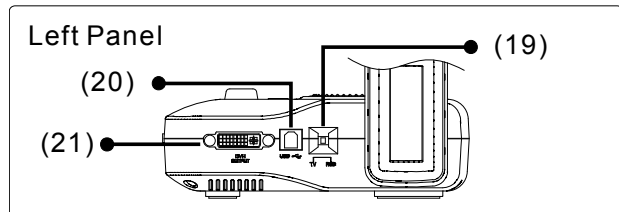
Technical Specifications

Image

Sensor	1/2.5" Progressive Scan CMOS
Pixel Count	3.2 mega pixels
Frame Rate	24 fps (max.)
White Balance	Auto / Manual
Exposure	Auto / Manual
Image mode	Text / Graphics / High Frame / Wide Angle / Microscope / Macro / Infinite
Effect	Color / B/W / Negative / Mirror / Reverse / Freeze
Analog RGB output	HD 720P; XGA 60 Hz; SVGA 60 Hz; VGA 60 Hz
Image Capture	Up to 80 Frames

Optics

Lens	F3.2 (Wide); F6.8 (Tele)
Focusing	Auto / Manual
Shooting Area	315mm x 236mm 400mm x 300mm (max.) (wide angle mode)
Zooming	5X Optical Zoom, 2X AVERZOOM, 8X Digital Zoom

Power

Power Source	DC 12V, 100-240V, 50-60Hz
Consumption	18 Watts (lamp off); 20 Watts (lamp on)

Lighting

Lamp Type	LED light with laser pointer

Input/Output

RGB Input	15-Pins D-sub (VGA)
RGB Output	15-Pins D-sub (VGA)
DVI-I Output	DVI-I Type
S-Video/RS-232	Mini-DIN Jack (use S-Video/RS-232 Adapter cable)
Composite Video	RCA Jack
USB	USB2.0
DC 12V Input	Power Jack

Dimension

Operating	430mm x 180mm x 600mm
Folded	355mm x 245mm x 63mm
Weight	2.6 kg (about 5.73 lbs)

Making the Connections

The ports on the rear, left and right panel of CP355 enable you to connect the unit to a computer, graphics display monitor or LCD/DLP projector, TV or other device. Illustrated below are the ports that are located at the rear, left and right panel of CP355 with their corresponding labels.
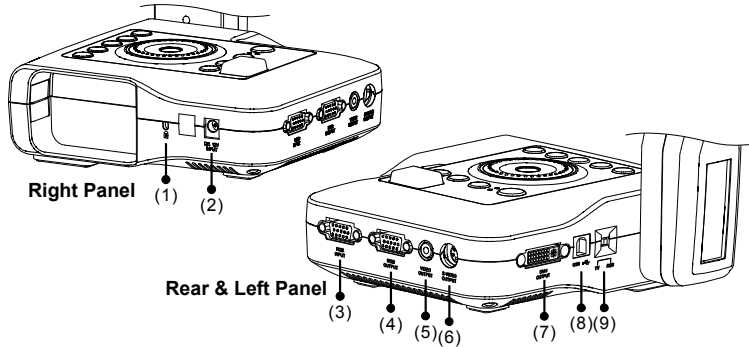
Port	Description
(1) Antitheft Slot	Attach a Kensington compatible security lock or antitheft device.
(2) DC 12V Input	Connect the power adapter into this port.
(3) RGB INPUT	Input the signal from a computer or other sources and pass it through to the RGB Output port only. Connect this port to the RGB/VGA output port of the computer.
(4) RGB OUTPUT	Output the signal from the camera, RGB input port, or the captured images from the memory on a CRT/LCD/MAC monitor or LCD/DLP projector.
(5) VIDEO OUTPUT (RCA/Composite)	Output the signal from the camera or the captured images from the memory on TV or Video equipment. Connect this port to the VIDEO input port of a TV or video equipment.
(6) S-VIDEO OUTPUT	Output the signal from the camera or the captured images from the memory on TV or Video equipment. Connect this port to the S-VIDEO input port of a TV or video equipment.
(7) DVI-I OUTPUT	Output the signal from the camera, RGB input port, or the captured images from the memory on a CRT/LCD/MAC monitor or LCD/DLP projector with DVI-I interface.
	If the display device does not support DVI-I, it can only display the signal from the camera and the captured images.

5

Port	Description
(8) USB	Use CP355 as a USB Camera or transfer the captured images from CP355 memory to PC. Connect this port to the USB port of the computer.
(9) TV-RGB switch	Switch to output display video either from Video and S-VIDEO, or RGB and DVI-I output port.

Connecting the Power Adapter

Connect the power adapter to a standard 100V~240V AC power source.

Wall outlet   Power adapter
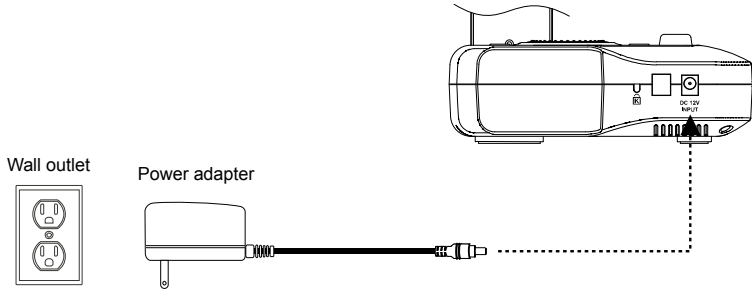
Connecting a TV

Locate the VIDEO, S-VIDEO or SCART RGB input port of the TV or Video equipment (i.e., VCR) to record your presentation on a videotape and connect it to S-VIDEO or VIDEO OUTPUT port of CP355.

- For better video quality, we strongly suggest using S-VIDEO connection.
- Make sure the TV/RGB switch is set to TV.

INPUT

S-Video to SCART cable (not supplied)

SCART

S-Video cable (not supplied)

S-VIDEO   Projector

RCA cable (not supplied)

VIDEO

RCA to SCART cable (not supplied)

SCART   Television

VCR
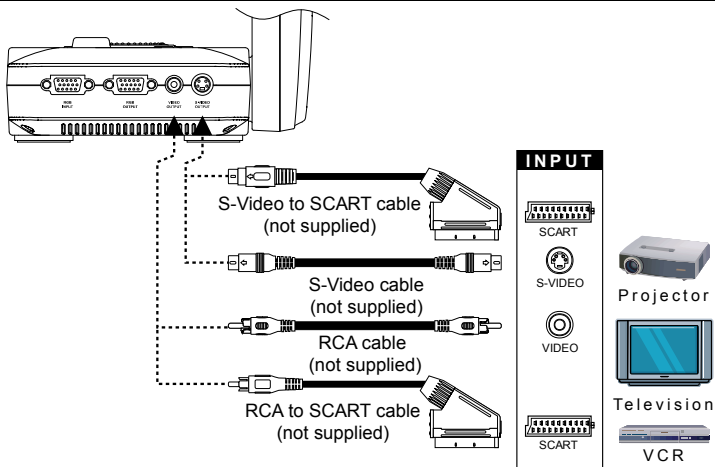
Connecting a CRT/LCD/MAC Display Monitor or LCD/DLP Projector

Locate the RGB (VGA) input port of the graphics display device and connect it to RGB OUTPUT port of CP355.

Make sure the TV/RGB switch is set to RGB.

RGB cable

LCD/DLP projector

CRT monitor

LCD monitor

MAC monitor
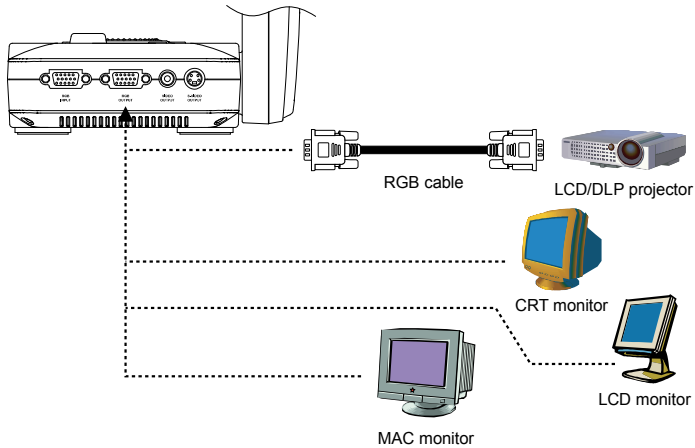
Connecting an LCD/MAC Display Monitor or LCD/DLP Projector with DVI-I interface

Locate the DVI-I input port of the display device and connect it to DVI-I OUTPUT port of CP355.

Make sure the TV/RGB switch is set to RGB.

LCD Monitor with DVI interface

DVI cable (not supplied)

LCD/DLP projector with DVI interface

7
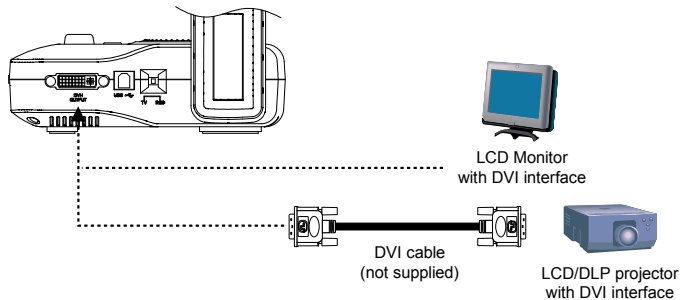
Connecting a Computer

Locate the RGB (VGA) output port of the computer or laptop to display your PC presentation on screen and connect it to RGB INPUT port of CP355. The video signal from the RGB INPUT port is streamed to RGB OUTPUT port, and displayed on the screen.

> - To display computer image, press Camera/PC button on the control panel or remote control to switch CP355 to PC mode.
> - For laptop to output display image, use the keyboard command (FN+F5) to switch between the display modes. For different command, please refer to your laptop manual.

Computer

Laptop

RGB cable

MAC
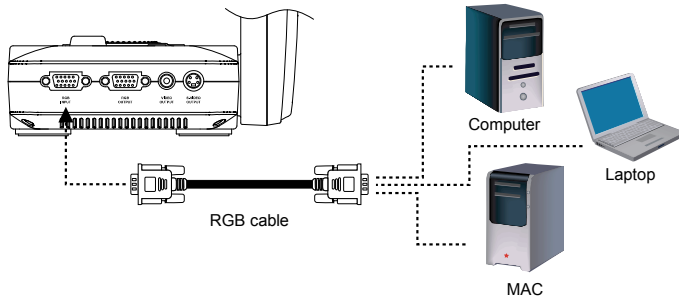
Connecting a Computer via USB

Locate the USB port of the computer or laptop and connect it to USB port of CP355. This enables you to use CP355 as a USB Camera and to transfer the captured images from the memory and to computer. Also see "Transfer Image from AVerVision CP355 to PC".

Computer

Laptop

USB cable

MAC
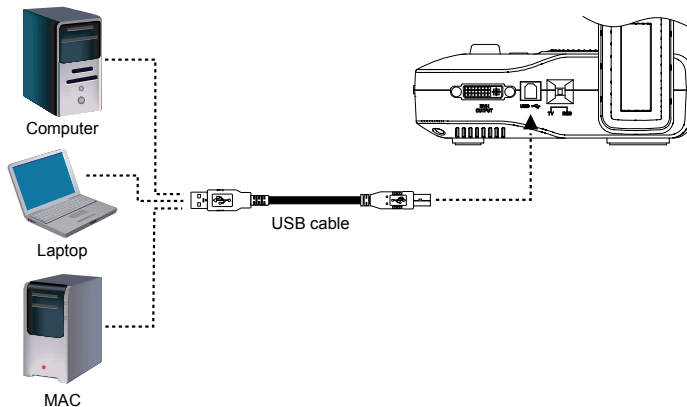
Connecting to a Microscope

Connecting the CP355 to a microscope enables you to examine microscopic objects on a big screen without straining your eyes.

> Make sure to connect the longer hook to the front latch hole of the camera head.
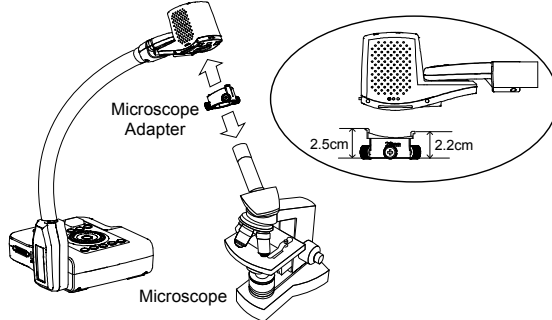
Setting Up AVerVision CP355

This section provides useful tips on how to adjust the CP355 to meet your needs.

Camera Head

The camera head can be turned 90° to the left and right.
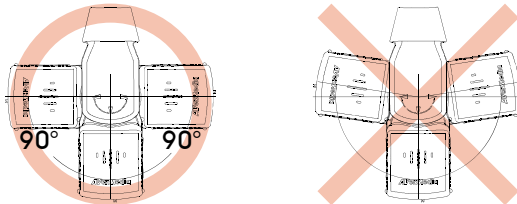
LED Light Switch

A unique feature of the CP355 is the four (4) laser positioning pointers that define the viewing area. This enables the user to quickly center the object underneath the camera. The three (3) various light and laser positioning pointers settings are provided as follows:
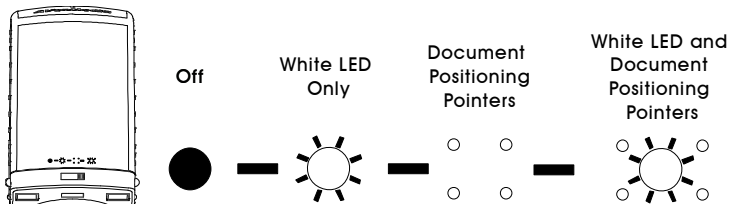
Infrared Sensor

Aim the remote control at the infrared sensor to operate the unit.
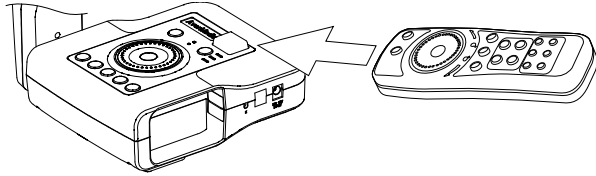
Flexible Gooseneck and Arm

The flexible gooseneck and arm design allows you to position the camera head from any angle.

> When positioning the camera head in upright position, press REVERSE on the remote control to rotate the image 180° . You may also rotate the image 180° in OSD menu. Just press **MENU**, select **REVERSE** in IMAGE menu list, and then press **ENTER** to turn on/off image reverse.
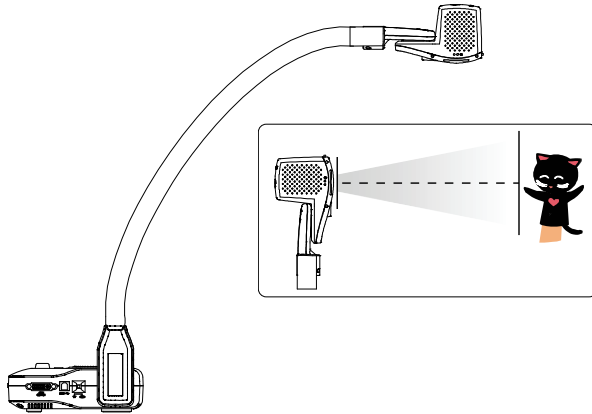
Anti-glare Sheet

The anti-glare sheet is a special coated film that helps eliminate any glare that maybe encountered while displaying very shiny objects or glossy surfaces such as magazines and pictures. To use, simply place the anti-glare sheet on top of the shiny document to reduce reflected light.
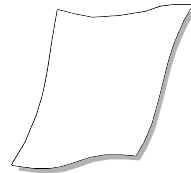
Using the Infrared Remote Control

Use the CP355 Remote Control to enhance your presentation by having the ability to switch between three (3) presentation modes and access various features. To use the remote control, first insert the batteries (2 "AAA" size batteries are provided) into the battery compartment at the back of the remote. Use the figure and descriptions below as a reference for remote control functions.

Name	Function
(1) POWER	Turn the unit on/off.
(2) LASER	Turn on the laser pointer.
	⚠ **DO NOT** look directly at the laser pointer and avoid aiming the laser at any surface that may reflect the beam (i.e., a mirror or mirrored surface).
(3) Shuttle Wheel	- Turn the shuttle wheel clockwise to zoom in and counter-clockwise to zoom out the image in Camera and Playback mode only. When it reaches the maximum optical zoom level of about 5X, you can still continue to AVERZOOM up to 2X and 8X digitally zoom. To return to normal view (100%), press **ENTER**. - Press the shuttle wheel ▲,▼,◄, &► to pan the image while in zoom in mode, to make a selection on 16-thumbnail images or move to the next or previous single full screen preview in Playback mode, or to make a selection and adjustment on the OSD main-menu and sub-menu (See Menu Functions for more details).

11

Name	Function
(4) ENTER	Make a selection in Playback mode and OSD menu. Use this to quick zoom to 200% or back to 100% in Camera mode only.
(5) MENU	Pull up and exit the OSD main-menu and sub-menu.
(6) CAMERA/PC	Switch between Camera and PC mode. - Camera mode displays the video signal from the built-in camera. - PC mode displays the video signal from the RGB INPUT port of CP355.
(7) AUTO FOCUS	Adjust the focus automatically.
(8) CAP/DEL	- Capture a still image in Camera mode. The captured image is saved in the memory and can store up to 80 images. The image size can be saved either in 1024 x 768 (default) or 2016 x 1520 pixels. If the Capture setting is in Continuous mode, use **CAP/DEL** button to start and stop successive still image capture. To stop continuous capture, press **CAP/DEL** button when "SAVE" message in the status box at the lower right corner of the screen disappear. To set the image size of your choice, press **MENU**, select **CAPTURE** in IMAGE menu list, press **ENTER**, select **IMG SIZE**, press **ENTER**, use ▲ and ▼ to make a selection, and press **ENTER** to save the setting. - Remove the selected picture from the built-in memory permanently in Playback mode.
(9) EFFECT	Convert and display the image in BW, Negative or Color in Camera and Playback mode only.
(10) PIP	Show a thumbnail size playback screen at the corner of the screen to view the captured image from the memory in Camera mode. Use ◄ or ► to move to the previous or next image and **ENTER** to view the image in full screen and press **ENTER** again to go back to PIP mode. To move the thumbnail playback screen to different corners or close, press PIP button repeatedly. You may also press CAMERA/PC to exit PIP mode and switch to Camera mode.
(11) PRESENTER	Select to turn on/off AVERBOX or AVERVISOR. Only one feature can be used at a time. In the PRESENTER menu, use ▲ and ▼ to select between AVERBOX or AVERVISOR, and press **ENTER** to turn on/off the selected feature. Then press **MENU** to close menu or execute the turned

Name	Function
	on feature. To exit AVerBox or AVerVisor mode, press CAMERA/PC to switch to Camera mode.
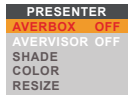
Name	Function
(10) PRESENTER	- AVerBox overlays a frame on the presentation screen. Selecting **SHADE** changes the opacity of the area outside the box from 0%, 50% and 100%, **COLOR** to change the frame color from red, green and blue, and **RESIZE** to change the size of the frame. To resize the frame, press the shuttle wheel ▲, ▼, ◄, & ► then press **ENTER** when done resizing. To move the frame around the presentation screen, use the shuttle wheel ▲, ▼, ◄, & ►.
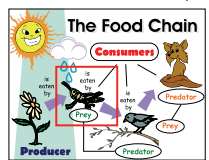
- AVerVisor covers part of the presentation screen. The upper part of the presentation screen is slightly exposed when it is being called each time. To expose part of the covered area, press the shuttle wheel ▲, ▼, ◄, & ►. Select **SHADE** to change the darkness of the shaded area between 50% or 100%.

Name	Function
(12) PLAYBACK	View the captured image from the memory in 16-thumbnail images. Use ▲, ▼, ◄, & ► to make a selection and **ENTER** to view the selected image in full screen. To zoom in and out the image, turn the shuttle wheel clockwise and counter-clockwise. To start slide show, press **MENU**, select **START** and press **ENTER** to begin and end. Select **INTERVAL** to set the display time interval between frames in second. To change the slide show time interval, select **INTERVAL**, press **ENTER** and the bar will turn red, use ◄ & ► to increase and decrease the value, and

13

Name	Function
	then press **ENTER** to save the setting and the bar will turn white.

SLIDE SHOW
START
INTERVAL
1   1   10

Name	Function
(13) AUTO IMAGE	Automatically adjust and set the white balance and exposure setting.
(14) FREEZE	Toggle to pause or resume the camera.
(15) REVERSE	Rotate the image by 180°in Camera mode only.
(16) TIMER	Set/start/pause/resume the timer in TIMER menu. The timer will automatically count up after count down reaches zero to show the elapsed time. The timer continues to run even when you switch to different modes.

In TIMER menu, select **SET TIME** to set the time value, **START** to begin the countdown timer, **PAUSE**/**RESUME** to temporarily halt or continue, and **STOP** to end.

To set the timer value, select **SET TIME**, press **ENTER** and the bar will turn red, use ◄ & ► to increase and decrease the value, and then press **ENTER** to save the setting and the bar will turn white.

TIMER
START
PAUSE
STOP
SET TIME
0   0   120

Once the countdown timer starts, in the status box at the lower right corner of the screen, the timer format is displayed in hours : minutes : seconds.

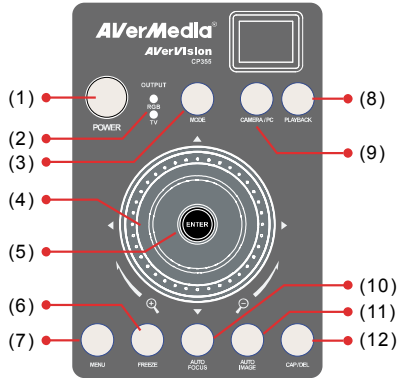| Name	Function
(17) SPLIT SCRN	Divide the screen into two parts. One side displays the live image from the CP355 camera and the other side displays the captured images from the memory in 8-thumbnail images.

Use the ▲,▼,◄, &► to make a selection and **ENTER** to enlarge the selected image in split screen mode. To horizontally or vertically pan the enlarged image, use the ◄ & ► or ▲&▼ respectively.

To switch to different split screen type or close, press **SPLIT SCRN** button repeatedly. You may also press **CAMERA/PC** to exit Split Screen mode and switch to Camera mode.

Touch Button Control Panel

The touch button control panel located on the top side of the CP355 provides quick access to commonly used functions.

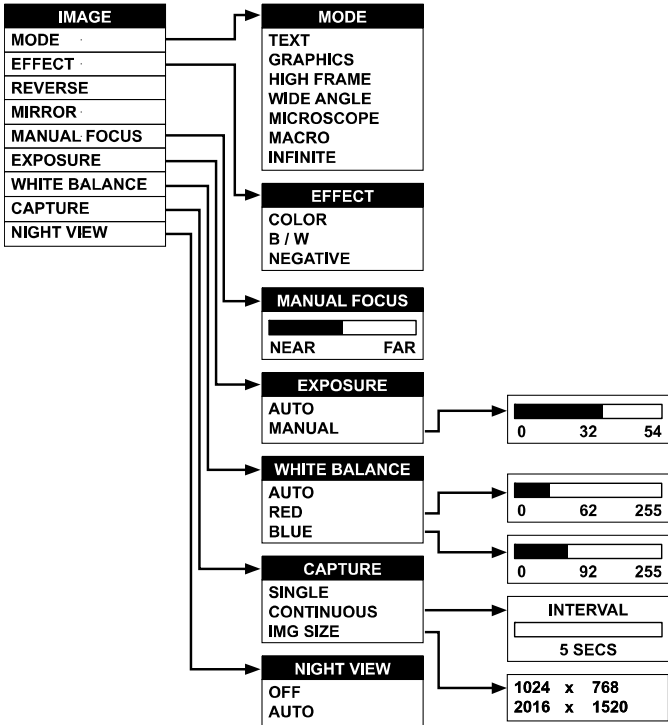| Function	Description
(1) POWER	Turn the unit on/off.
(2) Output LED Indicator	Indicate the setting of the TV to RGB switch to which port the video signal is being sent out.
	- RGB indicates that the video signal is sent out thru RGB OUTPUT port of CP355.
	- TV indicates that the video signal is sent out thru VIDEO and S-VIDEO OUTPUT port of CP355.
(3) MODE	Toggles between Text, Graphics, and High Frame.
	Text - corrects the intensity of the adjacent pixel making it more uniform producing sharper and clearer images.
	Graphics - adjusts the gradient of the adjacent pixel making it appears to have a smooth image.
	High Frame - increases the frame rate capture and can visually tracks the motion and react quickly. Sufficient lighting is required when using this mode.
	Wide Angle - extends the area of visibility up to 400mm x 300mm shooting area.
(4) Shuttle Wheel	- Turn the shuttle wheel clockwise to zoom in and counter-clockwise to zoom out the image in Camera and Playback mode only. When it reaches the maximum optical zoom level of about 5X, you can still continue to AVERZOOM up to 2X and 8X digitally zoom. To return to normal view (100%), press **ENTER**.
	- Press the shuttle wheel ▲,▼,◄, &► to pan the image while in zoom in mode, to make a selection on 16-thumbnail images or move to the next or previous single full screen preview in Playback

15

Function	Description
Shuttle Wheel	mode, or to make a selection and adjustment on the OSD main-menu and sub-menu (See Menu Functions for more details).
(5) ENTER	Make a selection in Playback mode and OSD menu. Use this to quick zoom to 200% or back to 100% in Camera mode only.
(6) FREEZE	Toggle to pause or resume the camera.
(7) MENU	Pull up and exit the OSD main-menu and sub-menu.
(8) PLAYBACK	View the captured image from the memory in 16-thumbnail images. Use ▲,▼,◄, & ► to make a selection and **ENTER** to view the selected image in full screen. To zoom in and out the image, turn the shuttle wheel clockwise and counter-clockwise. To start slide show, press **MENU**, select **START** and press **ENTER** to begin and end. Select **INTERVAL** to set the display time interval between frames in second. To change the slide show time interval, select **INTERVAL**, press **ENTER** and the bar will turn red, use ◄ & ► to increase and decrease the value, and then press **ENTER** to save the setting and the bar will turn white. SLIDE SHOW START INTERVAL 1 1 10
(9) CAMERA/PC	Switch between Camera and PC mode. - Camera mode displays the video signal from the built-in camera. - PC mode displays the video signal from the RGB INPUT port of CP355.
(10) AUTO FOCUS	Adjust the focus automatically.
(11) AUTO IMAGE	Automatically adjust and set the white balance and exposure setting.
(12) CAP/DEL	- Capture a still image in Camera mode. The captured image is saved in the memory and can store up to 80 images. The image size can be saved either in 1024 x 768 (default) or 2016 x 1520 pixels. If the Capture setting is in Continuous mode, use **CAP/DEL** button to start and stop successive still image capture. To stop continuous capture, press **CAP/DEL** button when "SAVE" message in the status box at the lower right corner of the screen disappear. To set the image size of your choice, press **MENU**, select **CAPTURE** in IMAGE menu list, press **ENTER**, select **IMG SIZE**, press **ENTER**, use ▲ and

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16

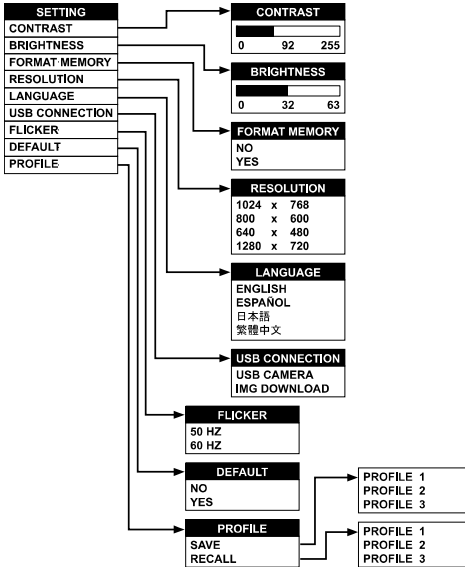| Function	Description
(CAP/DEL)	▼ to make a selection, and press **ENTER** to save the setting.
	- Remove the selected picture from the built-in memory permanently in Playback mode.

OSD Navigation Tree

There are 2 tab menus in CP355: IMAGE and SETTING tabs. For TV output, the RESOLUTION will be disabled in SETTING menu list.

IMAGE MENU

IMAGE
- MODE
- EFFECT
- REVERSE
- MIRROR
- MANUAL FOCUS
- EXPOSURE
- WHITE BALANCE
- CAPTURE
- NIGHT VIEW

MODE
- TEXT
- GRAPHICS
- HIGH FRAME
- WIDE ANGLE
- MICROSCOPE
- MACRO
- INFINITE

EFFECT
- COLOR
- B / W
- NEGATIVE

MANUAL FOCUS
NEAR   FAR

EXPOSURE
- AUTO
- MANUAL

0   32   54

WHITE BALANCE
- AUTO
- RED
- BLUE

0   62   255

0   92   255

CAPTURE
- SINGLE
- CONTINUOUS
- IMG SIZE

INTERVAL
5 SECS

1024 x 768
2016 x 1520

NIGHT VIEW
- OFF
- AUTO

SETTING MENU
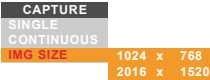
Menu Functions

The MENU functions of CP355 enhance fine-tuning your screen display, set the timer, select OSD language and more. Press the **MENU** button to call up and exit from 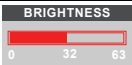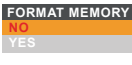the main menu or sub-menu display. Use ◄or► to select between IMAGE and SETTING menu list. Then use ▲or▼ to select the items in the menu list. To make a selection or change setting, press **ENTER**. To adjust the setting, press ◄or►.

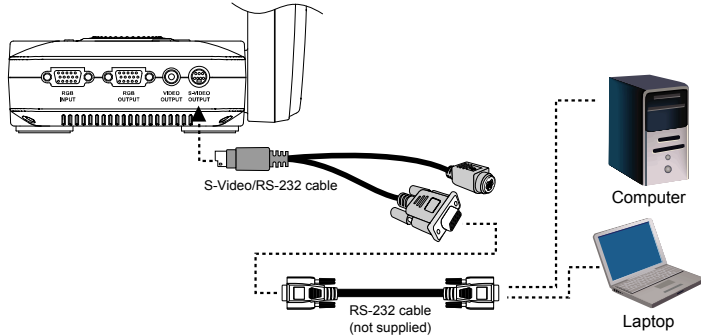| OSD Menu	Description
	IMAGE > MODE Use ▲or▼ to select between Text, Graphics and High Frame enhancement mode and then **ENTER** to make a selection. **Text** - corrects the intensity of the adjacent pixel making it more uniform producing sharper and clearer images. **Graphics** - adjusts the gradient of the adjacent pixel making it appears to have a smooth image. **High Frame** - increases the frame rate capture and can visually tracks the motion and react quickly. Sufficient lighting is required when using this mode. **Wide Angle** - extends the area of visibility up to 400mm x 300mm shooting area. **Microscope** - automatically fixes the optical zoom and displays the microscope image more clearly. **Macro** - improves the ability to view small details and

18

OSD Menu	Description
MODE TEXT GRAPHICS HIGH FRAME WIDE ANGLE MICROSCOPE MACRO INFINITY	get close-up view from the subject in the range of 5 to 20cm. **Infinite** - set to view the subject far away from the camera in the range of 55cm and beyond.
EFFECT COLOR B / W NEGATIVE	**IMAGE > EFFECT** Use ▲ or ▼ to select and display the image in Camera mode into positive (true color), monochrome (black and white) or negative. Then press **ENTER** to make a selection.
MENU IMAGE SETTING MODE GRAPHICS EFFECT COLOR REVERSE OFF MIRROR OFF MANUAL FOCUS AUTO EXPOSURE AUTO WHITE BALANCE AUTO CAPTURE SINGLE (06/80) NIGHT VIEW OFF	**IMAGE > REVERSE** Press **ENTER** to turn off/on REVERSE. Reverse rotates the image by 180° in Camera mode.
MENU IMAGE SETTING MODE GRAPHICS EFFECT COLOR REVERSE OFF MIRROR OFF MANUAL FOCUS AUTO EXPOSURE AUTO WHITE BALANCE AUTO CAPTURE SINGLE (06/80) NIGHT VIEW OFF	**IMAGE > MIRROR** Press **ENTER** to turn off/on MIRROR. Mirror flips the image in Camera mode.
MANUAL FOCUS NEAR FAR	**IMAGE > MANUAL FOCUS** Use ◄ or ► to manually adjust the focus and then press **ENTER** to save the setting and exit.
EXPOSURE AUTO MANUAL	**IMAGE > EXPOSURE** Use ▲ or ▼ to select between AUTO or MANUAL. Then press **ENTER** to make a selection. **AUTO** to automatically adjust the camera exposure to determine how much light is required. **MANUAL** to manually adjust the exposure level. Press **ENTER** and the bar will turn red, use ◄ & ► to increase and decrease the exposure level, and then press **ENTER** to save the setting and the bar will turn white. Press **MENU** to close the menu. **EXPOSURE** AUTO MANUAL 0 32 54
WHITE BALANCE AUTO RED BLUE	**IMAGE > WHITE BALANCE** Use ▲ or ▼ to select between auto or manually adjust the red and blue color to suit the lighting condition or color temperature. Then press **ENTER** to make a selection. To manually adjust the red or blue color level, select **RED or BLUE**, press **ENTER** and the bar will turn red, use ◄ & ► to increase and decrease the level, and then press **ENTER** to save the setting and the

19

WHITE BALANCE
AUTO
RED
BLUE

bar will turn white.

WHITE BALANCE
AUTO
RED
BLUE   0   62   255

WHITE BALANCE
AUTO
RED
BLUE   0   92   255

CAPTURE
SINGLE
CONTINUOUS
IMG SIZE

IMAGE > CAPTURE

Use ▲or▼ to select **SINGLE** or **CONTINUOUS** capture mode and **IMG SIZE** to select the capture pixel size of the image.

Select **SINGLE** to save one still image only and **CONTINUOUS** to save successive still images until the built-in memory is full or when the **CAP/DEL** button is being press again to stop.

In Continuous mode, press ENTER the bar will turn red, use ◄ & ► to increase and decrease the capture time interval between frames and then press **ENTER** to save the setting and the bar will turn white. The time interval can be set from 5 to 600 sec.

CAPTURE
SINGLE
CONTINUOUS   INTERVAL
IMG SIZE   5 SECS

In **IMG SIZE**, press **ENTER**, use ▲ and ▼ to make a selection, and press **ENTER** to save the setting.

CAPTURE
SINGLE
CONTINUOUS
IMG SIZE   1024 x 768   2016 x 1520

NIGHT VIEW
OFF
AUTO

IMAGE > NIGHT VIEW

Use ▲or▼ to turn Night View **OFF** or **AUTO**.

If you are presenting in a low-light condition, Night View enables the image of the object to appear as though under normal lighting conditions. CP355 can automatically adjust the exposure to compensate for the adverse condition, but the captured image will appear to be in slow motion.

CONTRAST
0   128   255

SETTING > CONTRAST

Use ◄ or ► to emphasize or reduce the difference between light and dark conditions then press **ENTER**. The contrast level can be adjustable up to 255.

BRIGHTNESS
0   32   63

SETTING > BRIGHTNESS

Use ◄ or ► to increase or decrease the brightness level and improve the visibility of the image then press **ENTER**. The brightness level can be set up to 63.

FORMAT MEMORY
NO
YES

SETTING > FORMAT MEMORY

Use ▲or▼ to select **NO** to exit or **YES** to format and delete all the images saved in the built-in memory then press **ENTER**.

OSD Menu	Description
	Please wait till the message "FORMAT" at the lower right corner of the screen disappear to finish the process.
RESOLUTION 1024 x 768 800 x 600 640 x 480 1280 x 720	**SETTING > RESOLUTION** Use ▲or▼ to choose from different supported display resolutions then press **ENTER** to make the selection. This selection will be disabled in TV output mode.
LANGUAGE ENGLISH ESPANOL 日本語 繁體中文	**SETTING > LANGUAGE** Use ▲or▼ to select from different supported languages then press **ENTER** to make the selection.
USB CONNECTION USB CAMERA IMG DOWNLOAD	**SETTING > USB CONNECTION** Use ▲or▼ buttons to select the function of USB between USB CAMERA and IMG DOWNLOAD. Then press **ENTER**. USB Camera - can be used as a computer webcam or with our bundled software to record video and capture still image. Img Download - transfer the captured images from the built-in memory to computer hard disk.
FLICKER 50 HZ 60 HZ	**SETTINGS > IMAGE > EXPOSURE > FLICKER** Use ▲or▼ to select between 50Hz or 60Hz. Some display devices cannot handle high refresh rates. The image will flicker a couple of times as the output is switched to another refresh rate.
DEFAULT NO YES	**DEFAULT** Use ▲or▼ to select **YES** to restore to original factory default setting or **NO** to exit then press **ENTER** to make the selection.
MENU IMAGE SETTING CONTRAST 92 BRIGHTNESS 32 FORMAT MEMORY NO RESOLUTION 1024 X 768 LANGUAGE ENGLISH USB CONNECTION USB CAMERA FLICKER 60 HZ DEFAULT NO PROFILE OFF	**SETTING > PROFILE** Press **ENTER** and use ▲or▼ to select between **SAVE** or **RECALL**. Then press **ENTER** again to make a selection. **SAVE** - store the current setting in the selected profile number. Only effect, mode, brightness and contrast settings can be saved. **RECALL** - restore the setting back to the selected profile number. In the SAVE/RECALL selection, use ▲or▼ to select saving/restoring the setting from the three profile number then press **ENTER**.

PROFILE		PROFILE	
SAVE	PROFILE 1	SAVE	
RECALL	PROFILE 2	RECALL	PROFILE 1
	PROFILE 3		PROFILE 2
			PROFILE 3

RS-232C Diagram Connection

CP355 can be controlled using a PC through RS-232 connection.

S-Video/RS-232 cable

RS-232 cable
(not supplied)

Computer

Laptop

RS-232C Cable Spec

Make sure the RS-232 cable matches the cable spec design.

PC COM Port

DSUB-9P (Female)

5 4 3 2 1

9 8 7 6

CD	1	----------	1	
RXD	2	----------	2	TXD
TXD	3	----------	3	RXD
DTR	4	----------	4	
SG	5	----------	5	SG
DSR	6	----------	6	
RTS	7	----------	7	
CTS	8	----------	8	
RI (CI)	9	----------	9	

AVerVision RS-232 Port

DSUB-9P (Female)

5 4 3 2 1

9 8 7 6
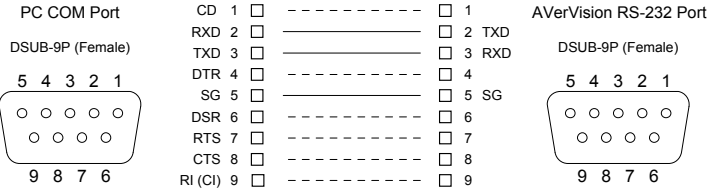
RS-232C Transmission Spec

- Start bit : 1 bit
- Data bit : 8 bit
- Stop bit : 1 bit
- Parity bit : None
- X parameter : None
- Baud rate(Communication speed) : 9600bps

RS-232C Communication Format

Start Code(1 Byte)   : 0xFF
Type Code(1 Byte)   : 0x70
DataLength Code(1 Byte)   : 0x01
Data Code(1 Byte)   : See the Command Table for reference.
CheckSum Code(1 Byte)   : See the Command Table for reference.
Format   : Start + Type + DataLength + Data + CheckSum
Example   : 0xFF + 0x70 + 0x01+ 0x1 + 0x70 (Command Power)

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RS-232C Command Table

Function	Start	Type	Data Length	Data	Checksum
POWER	FF	70	1	1	70
ENTER	FF	70	1	2	73
UP	FF	70	1	3	72
DOWN	FF	70	1	4	75
LEFT	FF	70	1	5	74
RIGHT	FF	70	1	6	77
PLAYBACK	FF	70	1	7	76
MENU	FF	70	1	8	79
PC/CAMERA	FF	70	1	9	78
AUTOIMAGE	FF	70	1	A	7B
AUTOFOCUS	FF	70	1	B	7A
FREEZE	FF	70	1	C	7D
CAPTURE	FF	70	1	D	7C
REVERSE	FF	70	1	E	7F
TIMER	FF	70	1	F	7E
EFFECT	FF	70	1	10	61
PBP	FF	70	1	11	60
PRESENTER	FF	70	1	12	63
PIP	FF	70	1	13	62
POWER ON	FF	70	1	40	31
POWER OFF	FF	70	1	41	30

Transferring the Captured Image to PC

This enables you to transfer the captured image from the built-in memory to PC.

⚠️ The instruction below **MUST** be read and followed **BEFORE** connecting the USB cable.

1. **MUST** set the USB CONNECTION as IMG DOWNLOAD before connecting the USB cable.

   To set the USB CONNECTION as IMG DOWNLOAD, press **MENU** > select **USB CONNECTION** in SETTING menu list and press ENTER, select **IMG DOWNLOAD** and press **ENTER**.

2. When "IMG DOWNLOAD" appears at the lower right corner of the presentation screen, you may now connect the USB cable.

3. Upon connecting the USB cable, the system automatically detects the new removable disk. You may now transfer the captured image(s) from the CP355 built-in memory to PC hard disk.

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Troubleshooting

This section provides many useful tips on how to solve common problems while using the CP355.

There is no picture on the presentation screen.
1. Check all the connectors again as shown in this manual.
2. Check the on/off switch of the display output device.
3. Verify the setting of the display output device.
4. If you are presenting from a notebook or computer through the display output device, check the cable connection from computer RGB (VGA) output to RGB input of CP355 and make sure CP355 is in PC Mode.

I have set up the CP355 and checked all the connections as specified in the manual but I cannot get a picture on the preferred presentation screen.
1. The unit POWER button turns orange in standby mode. Press the POWER button again to turn on and the LED light will turn blue.
2. The default camera display resolution setting is on 1024x768. If your output device does not support this resolution; no image can be projected. Simply press hold the MENU and ► button to the change the resolution setting.
3. If your display output device is on TV or any analog device, please switch the TV-RGB dip switch to TV.

The picture on the presentation screen is distorted or the image is blurry.
1. Reset all changed settings, if any, to the original manufacturer default setting (Refer to the Menu Functions for more details and steps).
2. Use the Brightness and Contrast menu functions to reduce the distortion if applicable.
3. If you discover that the image is blurry or out of focus, press the Auto Focus button on the control panel or remote control.

There is no computer signal on presentation screen.
1. Check all the cable connections among the display device, CP355 and your PC.
2. Connect your PC to the CP355 first before you power on your computer.
3. For notebook, repeatedly press FN+F5 to toggles between display modes and display the computer image on the presentation screen. For different command, please refer to your laptop manual.

The presentation screen does not show the exact desktop image on my PC or Notebook after I toggle from Camera to PC mode.
1. Return to your PC or Notebook, place the mouse on the desktop and right click, choose "Properties", choose "Setting" tab, click on "2" monitor and check the box "Extend my Windows desktop onto this monitor".
2. Then go back one more time to your PC or Notebook and place the mouse on the desktop and right click again.
3. This time choose "Graphics Options", then "Output To", then "Intel® Dual Display Clone", and then choose "Monitor + Notebook".
4. After you follow these steps, you should be able to see the same desktop image on your PC or Notebook as well as on the presentation screen.

How do I transfer the images from CP355 to a computer?   Is it normal that CP355 will reset to camera mode after I download images and disconnect the USB cable?

Choose "IMG DOWNLOAD" in SETTING tab, USB CONNECTION menu, and then connect the USB cable to transfer the captured images from the CP355 to the computer. When finished, unplug the USB cable. The CP355 will automatically reset and switch to camera mode.

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26