



PRODUCT MANUAL

DW Series

Digital Wide Dynamic Range

Please read this manual carefully before installation.

VER. : 1.0 2011

Thank you for purchasing our *EyeCom* line of products. Before installation please read this manual carefully to ensure proper use.

* *EyeCom* is a division of Ameba Technology USA

SAFETY PRECAUTION



CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN!



CAUTION : TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS.
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

FOR ALL CAMERAS

- Do not attempt to disassemble the camera. Any modification to the construction of this camera will void the warranty.
- Do not subject the camera to extreme shocks.
- Never point the camera toward the sun.
- Install the camera under conditions where temperatures are between 14°F~122°F (-10°C~50°C).
- Please use the correct power source specified on the specification sheet.
- Do not expose the video and power connector to moisture and water.
- Avoid installing in areas with high magnetic and/or electrical interference.

INDOOR CAMERAS

In addition to the For All Cameras section:

- Install indoor cameras under conditions where humidity is below 85%.

IR CAMERAS

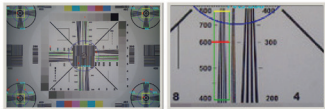
In addition to the For All Cameras section:

- Make sure there are no obstructions in close proximity to the camera that may cause IR to reflect back into the sensor. This may cause a white haze or halo effect when IRs turn on.
- Adjust for voltage drop if using 12VDC and running long power runs by increasing the voltage at the power source. IR operations may not function properly if voltage at the camera drops too low due to long power runs.

DW Series Overview

High Image Quality at 600TVL

At 600 TVL the DW Series produces superb high resolution images.



IR Smart

With IR smart, concentrated bright IR spots are eliminated delivering images with even IR distribution.



D-WDR (Digital Wide Dynamic Range)

Digital wide dynamic range allows for a properly exposed image when there are bright lights and dark shadows in the same scene.



2D-DNR (Digital Noise Reduction)

2D-DNR removes the graininess usually associated with low light and produces a picture with better clarity.



Motion Detection

4 motion detect zones.



HLC (High Light Compensation)

Very bright light source such as street lamps or headlights of vehicles are masked thus enabling objects behind to be visible.



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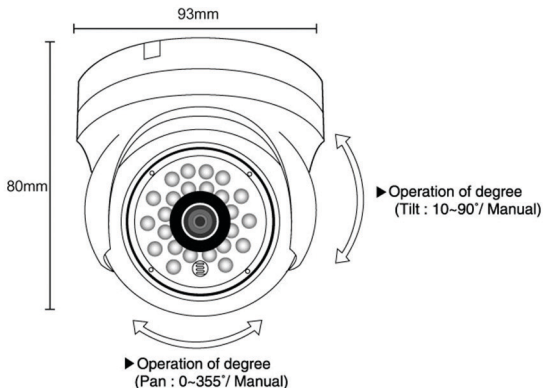
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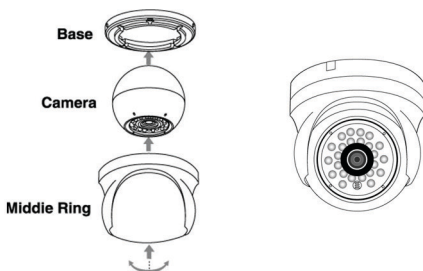
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For More Product Information,
please visit us at www.AMEBACCTV.com

FEATURES

- High Resolution 1/3" Sony Super HAD II CCD.
- Uniquely designed manual Pan/Tilt function makes the camera mounting friendly for ceiling or wall.
- Heavy duty vandal resistant with security screw.
- 24 high quality infrared led's enables viewing at darkness up to 50 ft.
- Built-in 3.6mm lens.
- Outdoor Weather Proof: IP 66.

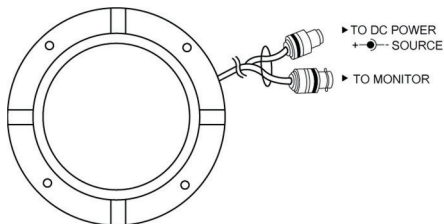




Wiring

STEP 1: Connect the coaxial cable between the camera and the monitor using 75 Ohm coaxial cable.

STEP 2: Insert the AC plug into the AC socket and the DC plug to the DC Jack.



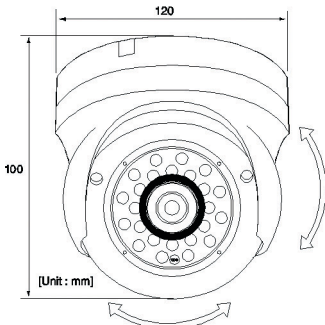
Note: AC Adapter Sold separately.

ITEM		DW-620
Total Pixels		811(H) x 508(V)
Effective Pixels		768(H) x 494(V)
Sensor		1/3" Sony Super HAD II CCD
Scanning System		2:1 Interlace
Frequency		Horizontal : 15.734KHz Vertical : 59.94Hz
ELECTRICAL	Resolution	More than 600 TV Lines
	Video Output	1.0Vp-p Composite Signal (75ohm)
	S/N (Y signal)	52dB or more (AGC OFF)
	Min.Illumination	0 Lux for Infrared Lighting Conditions
	AGC	OFF / LOW / MIDDLE / HIGH
	White Balance	ATW1(2300° K~9500° K) / ATW2(2000° K~11000° K)/MANUAL
	Electronic shutter speed	1/60s - 1/100,000s
	Back light(BLC)	OFF
	2D-DNR	ON
	D&N Selection	EXT
	D-WDR	OFF
	Dead Pixel(DPC)	OFF
	IR SMART	ON
	Motion Detection	OFF
	Privacy Masking	OFF
	Lens Shading(LSC)	OFF
	SHARPNESS	OFF
IR LEDs		24 IR LEDs
Lens Mount		3.6mm
Operating temperature/Humidity		14F~122F / -10°C~+50°C / 0~80% RH
Power Supply		DC12V 80mA (CDS ON : 300mA)
Dimensions		3.66"(W) x 3.14"(D) / 93 (W)mmx80 (D)mm
Weight		Appx.1.19lbs / 540g

Note: Design and specification are subject to change without prior notice.

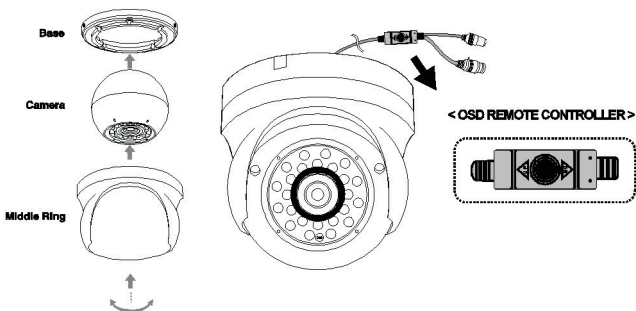
FEATURES

- High Resolution 1/3" Sony Super HAD II CCD.
- Uniquely designed manual Pan/Tilt function makes the camera mounting friendly for ceiling or wall.
- Heavy duty vandal resistant with security screw.
- 24 high quality infrared LEDs enable viewing at darkness up to 50 ft.
- Built-in Auto-Iris & Vari-focal 2.8-11mm lens for flexible range of viewing.
- User-friendly external adjustment for zoom & focus.
- ICR (True Day & Night).
- OSD control by remote controller.



► Operative range
(Tilt : 10~90° Manual)

► Operative range
(Pan : 0~355° Manual)



Wiring

STEP 1: Connect the coaxial cable between the camera and the monitor using 75 Ohm coaxial cable.

STEP 2: Insert the AC plug into the AC socket and the DC plug to the DC Jack.



* Wall Mount sold separately

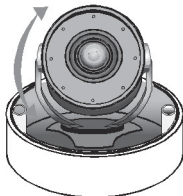
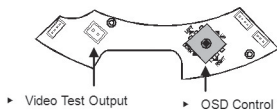
Note: AC Adapter Sold separately.

ITEM		DW-625	
Total Pixels		811(H) x 508(V)	
Effective Pixels		768(H) x 494(V)	
Sensor		1 1/3" Sony Super HAD II CCD	
Scanning System		2:1 Interlace	
Frequency		Horizontal :15.734KHz Vertical : 59.94Hz	Horizontal :15.625KHz Vertical : 50.00Hz
ELECTRICAL	Resolution	More than 600 TV Lines	
	Video Output	1.0Vp-p Composite Signal (75ohm)	
	S/N (Y signal)	52dB or more (AGC OFF)	
	Min. Illumination	0 Lux for Infrared Lighting Conditions	
	AGC	OFF / LOW / MIDDLE / HIGH	
	White Balance	ATW1(2300° K~9500° K) / ATW2 (2000° K~11000° K)/MANUAL	
	Electronic shutter speed	1/60s - 1/100,000s	1/50s - 1/100,000s
	Back light(BLC)	OFF / BLC / HLC Selectable	
	2D-DNR	ON / OFF Selectable	
	D&N Selection	AUTO / COLOR / BW / EXT	
	D-WDR	ON / OFF Selectable(Level Adjustable 0~35)	
	Dead Pixel(DPC)	OFF / Auto(Max 64points)	
	IR SMART	ON / OFF Selectable(IR GAIN Level Adjustable 0~ 255)	
	Motion Detection	OFF / ON(4Areas Selectable)	
	Privacy Masking	OFF / ON(8Masks Selectable)	
	Lens Shading(LSC)	ON / OFF Selectable(Level Adjustable 0~255)	
	SHARPNESS	ON / OFF (Level Adjustable 0~30)	
	O.S.D	Available	
IR LEDs		24IR LEDs	
Lens Mount		2.8~11mm DC Auto Iris	
Operating temperature/Humidity		14F~122F / -10°C~+50°C / 0~80% RH	
Power Supply		DC12V / AC24V 150mA (CDS ON 500mA)	
Dimensions		4" (W) x 4.72" (D) / 100(W)mm x 120(D)mm	
Weight		Appx. 2 lbs. / 800g	

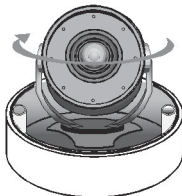
Note: Design and specification are subject to change without prior notice.

FEATURES

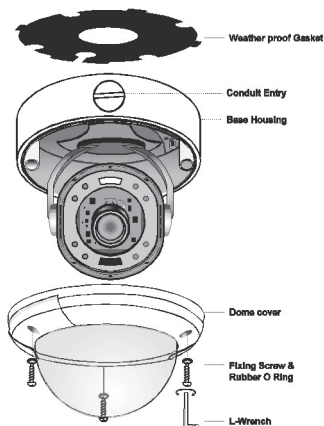
- High Resolution 1/3" Sony Super HAD II CCD.
- Uniquely designed manual Pan/Tilt function makes the camera mounting friendly for ceiling or wall.
- Heavy duty vandal resistant with security screw.
- Built-in Auto-Iris & Vari-focal 2.8-11mm lens for flexible range of viewing.
- OSD control by remote controller.



Operational Angle
(Pan : 0~355° / Manual)

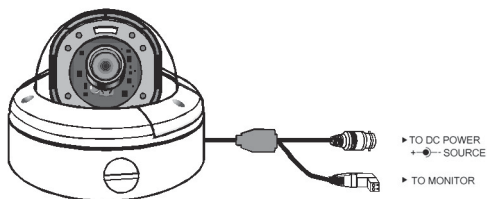


Operational Angle
(Tilt : 10~90° / Manual)



Wiring

- STEP 1: Connect the coaxial cable between the camera and the monitor using 75 Ohm coaxial cable.
- STEP 2: Insert the AC plug into the AC socket and the DC plug to the DC Jack.



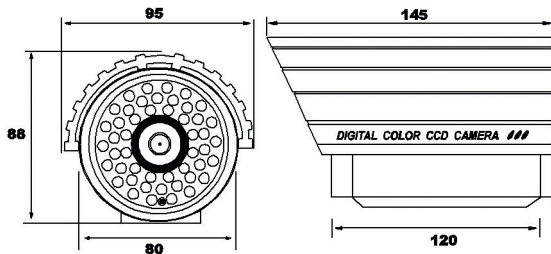
Note: AC Adapter Sold separately.

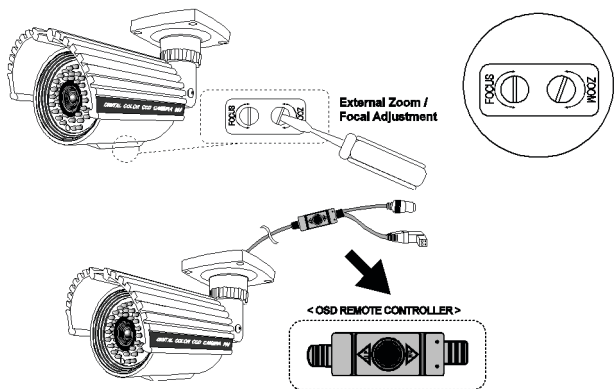
ITEM		DW-627/CC-9125DHL2
Total Pixels		811(H) x 508(V)
Effective Pixels		768(H) x 494(V)
Sensor		1/3" Sony Super HAD II CCD
Scanning System		2:1 Interlace
Frequency		Horizontal : 15.734KHz Vertical : 59.94Hz
ELECTRICAL	Resolution	More than 600 TV Lines
	Video Output	1.0Vp-p Composite Signal (75ohm)
	S/N (Y signal)	52dB or more (AGC OFF)
	Min. Illumination	0.01Lux
	AGC	OFF / LOW / MIDDLE / HIGH
	White Balance	ATW1(2300° K~9500° K) / ATW2 (2000° K~11000° K)/MANUAL
	Electronic shutter speed	1/60s - 1/100,000s
	Back light(BLC)	OFF / BLC / HLC Selectable
	2D-DNR	ON / OFF Selectable
	D&N Selection	AUTO / COLOR / BW / EXT
	D-WDR	ON / OFF Selectable(Level Adjustable 0~35)
	Dead Pixel(DPC)	OFF / Auto(Max 64points)
	IR SMART	Not Available
	Motion Detection	OFF / ON(4Areas Selectable)
	Privacy Masking	OFF / ON(8Masks Selectable)
	Lens Shading(LSC)	ON / OFF Selectable(Level Adjustable 0~255)
	SHARPNESS	ON / OFF (Level Adjustable 0~30)
	O.S.D	Available
Lens Mount		2.8~11mm DC Auto Iris
Operating temperature/Humidity		14F~122F / -10°C~+50°C / 0~80% RH
Power Supply		DC12V / AC24V 130mA)
Dimensions		5.70" (W) x 3.93" (D) / 145(W)mm x 100(D)mm
Weight		Appx. 1.33 lbs. / 600g

Note: Design and specification are subject to change without prior notice.

FEATURES

- High Resolution 1/3" Sony Super HAD II CCD.
- Uniquely designed manual Pan/Tilt function makes the camera mounting friendly for ceiling or wall.
- Heavy duty vandal resistant with security screw.
- 48 high quality infrared LEDs enable viewing at darkness up to 132 ft.
- Built-in Auto-Iris & Vari-focal 3.5~16mm lens for flexible range of viewing.
- User-friendly external adjustment for zoom & focus.
- ICR (True Day & Night).
- OSD control by remote controller.

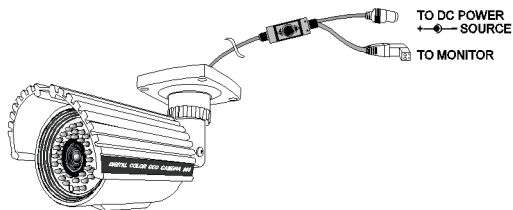




Wiring

STEP 1: Connect the coaxial cable between the camera and the monitor using 75 Ohm coaxial cable.

STEP 2: Insert the AC plug into the AC socket and the DC plug to the DC Jack.



Note: AC Adapter Sold separately.

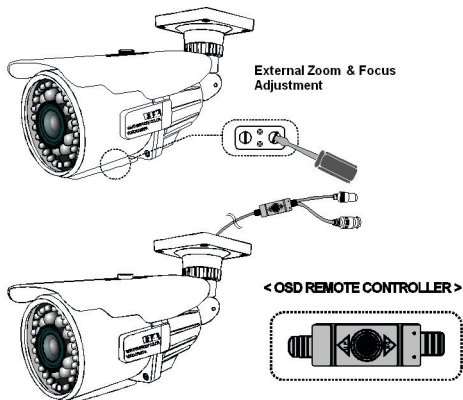
ITEM		DW-650
Total Pixels		811(H) x 508(V)
Effective Pixels		768(H) x 494(V)
Sensor		1/3" Sony Super HAD II CCD
Scanning System		2:1 Interlace
Frequency		Horizontal :15.734Khz Vertical : 59.94Hz
ELECTRICAL	Resolution	More than 600 TV Lines
	Video Output	1.0Vp-p Composite Signal (75ohm)
	S/N (Y signal)	52dB or more (AGC OFF)
	Min.Illumination	0 Lux for Infrared Lighting Conditions
	Gain Control	OFF / LOW / MIDDLE / HIGH
	White Balance	ATW1(2300°K~9500°K) / ATW2(2000°K~11000°K)/MANUAL
	Electronic shutter speed	1/60s - 1/100,000s
	Back light(BLC)	OFF / BLC / HLC Selectable
	2D-DNR	ON / OFF Selectable
	D&N Selection	AUTO / COLOR / BW / EXT
	D-WDR	ON / OFF Selectable(Level Adjustable 0~35)
	Dead Pixel(DPC)	OFF / Auto(Max 64points)
	IR SMART	ON / OFF Selectable(IR GAIN Level Adjustable 0~ 255)
	Motion Detection	OFF / ON(4Areas Selectable)
	Privacy Masking	OFF / ON(8Masks Selectable)
	Lens Shading(LSC)	ON / OFF Selectable(Level Adjustable 0~255)
	SHARPNESS	ON / OFF (Level Adjustable 0~30)
	OSD	Available
IR LED's		48 IR LEDs
Lens Mount		3.5~16mm DC Auto Iris Lens
Power Supply		DC12V / AC24V 190mA (CDS ON : 650mA Max)
Operating temperature/Humidity		14F~122F / -10°C~+50°C / 0~80% RH
Dimensions		3.14"(W) x 3.14"(H) x 4.72"(D) / 80(W) x 80(W) x 120(D)mm
Weight		Appx. 1.76 lbs. / 800g

Note: Design and specification are subject to change without prior notice.

FEATURES

- High Resolution 1/3" Sony Super HAD II CCD.
- Uniquely designed manual Pan/Tilt function makes the camera mounting friendly for ceiling or wall.
- Heavy duty vandal resistant with security screw.
- 36 high quality infrared LEDs enable viewing at darkness up to 230 ft.
- Built-in Auto-Iris & Vari-focal 5-50mm lens for flexible range of viewing.
- User-friendly external adjustment for zoom & focus.
- ICR (True Day & Night).
- OSD control by remote controller.

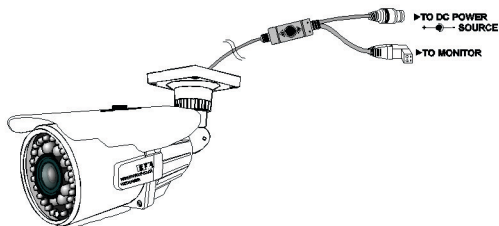




Wiring

STEP 1: Connect the coaxial cable between the camera and the monitor using 75 Ohm coaxial cable.

STEP 2: Insert the AC plug into the AC socket and the DC plug to the DC Jack.



Note: AC Adapter Sold separately.

ITEM		DW-655
Total Pixels		811(H) x 508(V)
Effective Pixels		768(H) x 494(V)
Sensor		1/3" Sony Super HAD II CCD
Scanning System		2:1 Interlace
Frequency		Horizontal :15.734Khz Vertical : 59.94Hz
ELECTRICAL	Resolution	More than 600 TV Lines
	Video Output	1.0Vp-p Composite Signal (75ohm)
	S/N (Y signal)	52dB or more (AGC OFF)
	Min.Illumination	0 Lux for Infrared Lighting Conditions
	Gain Control	OFF / LOW / MIDDLE / HIGH
	White Balance	ATW1(2300°K~9500°K) / ATW2(2000°K~11000°K)/MANUAL
	Electronic shutter speed	1/60s - 1/100,000s
	Back light(BLC)	OFF / BLC / HLC Selectable
	2D-DNR	ON / OFF Selectable
	D&N Selection	AUTO / COLOR / BW / EXT
	D-WDR	ON / OFF Selectable(Level Adjustable 0~35)
	Dead Pixel(DPC)	OFF / Auto(Max 64points)
	IR SMART	ON / OFF Selectable(IR GAIN Level Adjustable 0~ 255)
	Motion Detection	OFF / ON(4Areas Selectable)
	Privacy Masking	OFF / ON(8Masks Selectable)
	Lens Shading(LSC)	ON / OFF Selectable(Level Adjustable 0~255)
	SHARPNESS	ON / OFF (Level Adjustable 0~30)
	OSD	Available
IR LED's		36 IR LEDs
Lens Mount		5~50mm DC Auto Iris Lens
Power Supply		DC12V / AC24V 190mA (CDS ON : 480mA Max)
Operating temperature/Humidity		14F~122F / -10°C~+50°C / 0~80% RH
Dimensions		3.42:(W) x 3.46"(H) x 6.96"(D) / 87(W)mm x 88(H)mm x 177(D)mm
Weight		Appx. 2.91 lbs. / 1,320g

Note: Design and specification are subject to change without prior notice.

Troubleshooting

PROBLEM	SOLUTION
No video	<ul style="list-style-type: none">• Check power and video connection for camera and monitor.• Check for correct DC/AC power specified in the specification page.• Check for correct polarity if using DC.• If using DC, make sure distance is within voltage drop limits.
Dark Image	<ul style="list-style-type: none">• Make sure lens cover is free of dirt.• If camera have OSD, set camera to factory default setting.• Make sure camera is not facing directly at the sun.
Blurry Image	<ul style="list-style-type: none">• Make sure lens cover is free of dirt.• Adjust zoom/focus knob to focus.
IR does not turn ON	<ul style="list-style-type: none">• If using DC make sure distance is within voltage drop limits.• Under conditions with ample ambient light, IR may not switch on.
White haze/halo when IR is ON	<ul style="list-style-type: none">• Make sure lens cover is free of dirt, water drops, spider webs.• Make sure no objects are too close to lens causing IR reflection.• Check if IR from another camera is pointed at this camera.
Flickering Image	<ul style="list-style-type: none">• Make sure camera is not facing directly at the sun.
Other Image Problems	<ul style="list-style-type: none">• If camera have OSD, set camera to factory default setting.

If problem cannot be solved please contact an authorized dealer immediately.

