APOLLO

DESERT SERIES

Weatherproof outdoor TV cabinets

Installation Guide

Models: DS4239
DS5550
DS6560
DS7570
DS8680
DS9890



www.digiscreens.ae

Congratulations on the purchase of your Apollo Desert Series TV cabinet.

Apollo Enclosures (Apollo) developed environmental LED/LCD cabinets as a platform to provide an affordable solution to safely enjoy TV entertainment outdoors in both residential and commercial applications worldwide.

With optimized internal capacity, configurability, and flexibility; the Apollo environmental cabinet is the ideal solution for protecting your TV for outdoor entertainment applications of today and tomorrow, providing both quality and endurance for years to come.

To ensure your personal safety and optimum performance of your cabinet, please read this instruction manual thoroughly.

Customer Service Contacts:

It is our goal to provide a safe, practical, and fulfilling outdoor TV viewing experience with the installation of the Apollo cabinet. For questions regarding the Apollo cabinet installation or ordering any Apollo accessories, please contact Digi Screens Middle East Trading at any of the following options:

Toll Free from UAE: 8000182464

Email: contact@digiscreens.ae

Address: PO Box 487177, Dubai. UAE

In case you need to contact Customer Service, please complete the following information for future reference:

Model Number*: _____

Mfg. Code*: _____

Date of Purchase: _____

Place of Purchase: _____

*The model number and Mfg. Code are on the back bottom right of the rear panel. Retain this installation manual with your sales receipt as a permanent record of your purchase in the event of warranty service.

Product Description

Overview

The features for all Apollo models are identical in functionality with the only difference being the sizes of LED/LCD televisions that will safely fit inside each model. There is a full complement of weatherproof mounts for a complete environmental solution.

The Apollo line of weatherproof cabinets will protect a wide range of slim LED/LCD televisions in ambient temperatures of -20°C to +50°C in a partial or full sun areas. The modularity of the system design ensures easy access, simplified installation, and maintenance.

The cabinets also offer the option to add a thermostatically controlled heater module to either manage condensation in high humidity locations or provide additional protection in extreme cold climates.

You may choose a weatherproof full motion wall mount, a non-articulating wall mount, or an adjustable height ceiling mount; all with stainless steel hardware.

Specifications

- The cabinets are manufactured from durable and weatherproof powder coated aluminium.
- Anti-glare tempered glass protects the TV while significantly reducing reflection and increasing the contrast ratio for better viewing.
- Protective film applied to the back of the glass shields the TV from harmful UV & IR rays.
- A thermostatically controlled filtered air flow system cools the cabinet and protects the TV from extreme temperatures (up to 50°C) and from dust, dirt, and insects.
- Additional fans in the front cover frame stream air across the front of the TV.
- The down facing sound port speaker grilles transfer audio effectively to maximize performance.
- A water-tight cable cover facilitates the pass through of power and cable connections to TV inputs and outputs.
- A four outlet power bank with nine foot power cord provides AC power for the air-flow system, TV, and two other items.
- EZ mount TV swing brackets for simplified TV installation and easy access to TV cables and cable management.

Safety

IMPORTANT: Please read this entire installation guide before you start assembly and installation of the Apollo cabinet.

Safety Statements

⚠ WARNING

- Do not begin to install your Apollo cabinet until you have read and understand the instructions and warnings contained in this guide. If you have any questions regarding any of the instructions or warnings, please contact Toll Free from UAE 8000182464 or WhatsApp +6421472537
- This product should be installed by a qualified person or professional installer.
- Make sure the supporting surface (wall or ceiling) will safely support the combined weight of the cabinet and the attached LED/LCD TV.
- If mounting to wooden wall studs, make sure that the mounting screws are anchored into the centre of the studs. Use of an edge-to-edge stud finder is highly recommended.
- Do not lift more weight than you can handle. Use additional manpower or mechanical lifting equipment to safely handle placement of the TV into the cabinet.



- Tighten screws firmly, but do not over-tighten. Over-tightening can damage the parts and reduce their holding power.

⚠ **WARNING:** This cabinet is equipped with a nine foot power cord and plug. **Do not use an extension cord.** This plug **must be plugged into an approved weatherproof** power outlet. Unless the above connection method is followed, you are not protected against severe or lethal shock in the event of a short circuit in the cabinet equipment or electrical components. Please check electrical codes for proper equipment.

The four outlet power strip located inside the cabinet is used for the following:

- Internal fan power – factory set up
- TV power cord
- Two auxiliary outlets for optional heater module or alternate accessory (such as Apple® TV, media player, or accessory not requiring more power than available from the standard 240 VAC, 13 Amp circuit).

Precautions

When working on or using this cabinet, the following precautions should be noted:

- Do not install the cabinet near heat sources such as heaters, stoves, or other heat generating products.

- Do not submerge the Apollo cabinet in water. This product is weatherproof and not designed to be submerged in water.

- Do not use high-pressure hoses or water jets on the cabinet. It is designed to withstand normal rain, garden hoses and sprinklers. **NEVER SPRAY OR DIRECT WATER FROM A HOSE OR SPRINKLER TO THE BOTTOM OF THE CABINET WHERE THE SPEAKER GRILLES ARE LOCATED.**

Getting Started

1. Parts List

Quantity	Item
1	Apollo Front Cover
1	Apollo Back Panel
2	Swing Brackets
1	Cable Cover Assembly
1	Assembly Hardware Kit

2. Selecting the Best Viewing Location

a. For best viewing enjoyment, we recommend that you install your cabinet in a shaded area, under a canopy, trees, or facing away from the sun during your optimum viewing time of day. Positioning the front of the cabinet out of direct sun on the glass will also provide a clearer image and minimize the tendency for direct sun to fight with the image and wash it out.

b. If you install your TV with direct sun on the TV for more than one hour per day, the Apollo Desert Series cabinets are designed to protect your TV from the direct sun exposure. They include protective film applied to the anti-glare safety glass to shield the TV from harmful UV and IR rays, as well as additional crossflow fans installed in the front cover to stream air between the TV and the glass. For best viewing enjoyment in this application, we recommend that you source a TV with the best peak brightness level (preferably 1000 nits and higher) to enjoy in high ambient light environments. Standard TVs have brightness levels of 350 – 500 nits. You can find information on the TVs with the highest peak brightness level by searching on https://www.rtings.com/tv/tests/picture-quality/peak-brightness

c. During high temperature days of 32 ºC or higher, direct sun exposure on the face of the cabinet may cause the TV to exhibit blackout spotting in the picture screen, commonly known as “isotropic blackout”, a condition during which some of the LCD panel’s cells temporarily shut down (go black) until the cells’ temperature cools and the sun is no longer on the glass on these extremely hot days.

d. We recommend the purchase of our custom designed fit dust cover to further protect the cabinet in direct sun installations when the TV is not in use, as well as preserving the beauty of your cabinet for years to come.

3. Installing the Apollo Mount to Your Outside Location

We recommend that your mount be installed by a qualified professional. We accept no liability for damages caused by incorrect assembly, installation, or use.

⚠ WARNING
• Always refer to the installation instructions included with your mount.
• Make sure that the supporting surface will safely support the combined weight load of the equipment (cabinet and TV) and all attached hardware and components.
• Make sure to use the proper mounting hardware and that all mounting hardware is securely fastened

4. Unpacking your Apollo Cabinet

a. Remove the back panel from the carton placing it face up on a clean, smooth surface. (Do not remove the front cover with glass, as this is your final step).

b. Use the parts list to verify all materials are present. Save the shipping container and all packing inserts until installation is complete.

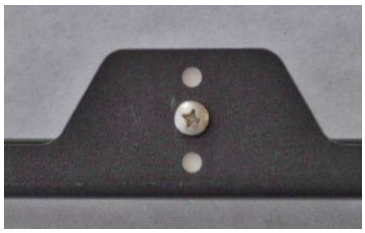
c. Cut cable ties securing the two swing brackets, which will be required for next step.

Assembly Instructions

1. Adjusting swing brackets for depth of TV

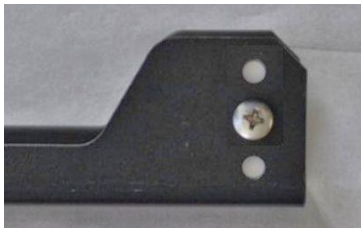
The swing brackets must be adjusted according to the depth of your TV (as shown below) to provide the proper air gap between the TV and the cabinet front glass. The correct bracket adjustments will ensure required air flow and best clarity.

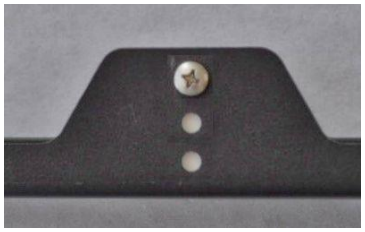
TV DEPTH



66mm to 76mm

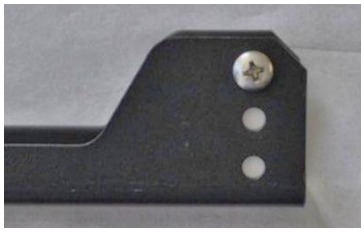
WHITE ROLLER THRU CENTRE HOLE





56mm to 65mm

WHITE ROLLER THRU TOP HOLE



FOR TVs OF THE FOLLOWING DEPTHS, USE EXTENSION BRACKETS (SUPPLIED WITH CABINET) AS LISTED BELOW



46mm to 55mm

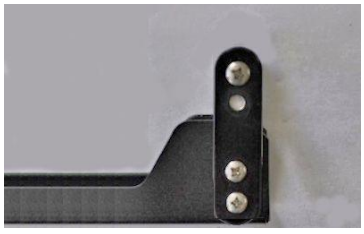
WHITE ROLLER THRU 2ND HOLE FROM TOP, SCREW EXTENSION BRACKET TO TV SWING BRACKET BOTTOM AND MIDDLE HOLE





36mm to 45mm

WHITE ROLLER THRU TOP HOLE, SCREW EXTENSION BRACKET TO TV SWING BRACKET BOTTOM AND MIDDLE HOLE



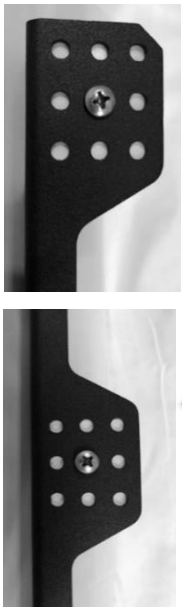


25mm to 35mm

WHITE ROLLER THRU TOP HOLE, SCREW EXTENSION BRACKET TO TV SWING BRACKET TOP AND MIDDLE HOLE



Larger Apollo models include brackets with extra rows of holes for minor adjustments to vertically centre TV up or down.

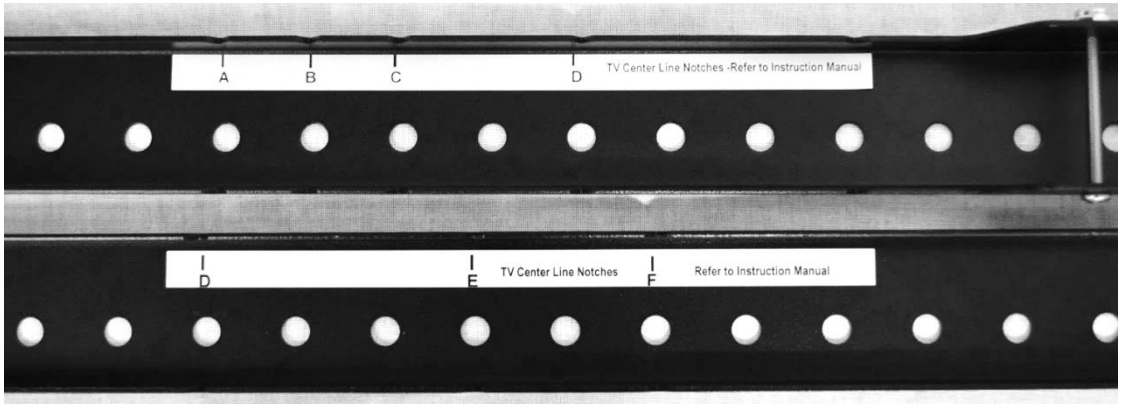


Use top row of holes to adjust TV slightly down in the cabinet

Use bottom holes to adjust TV slightly up in the cabinet

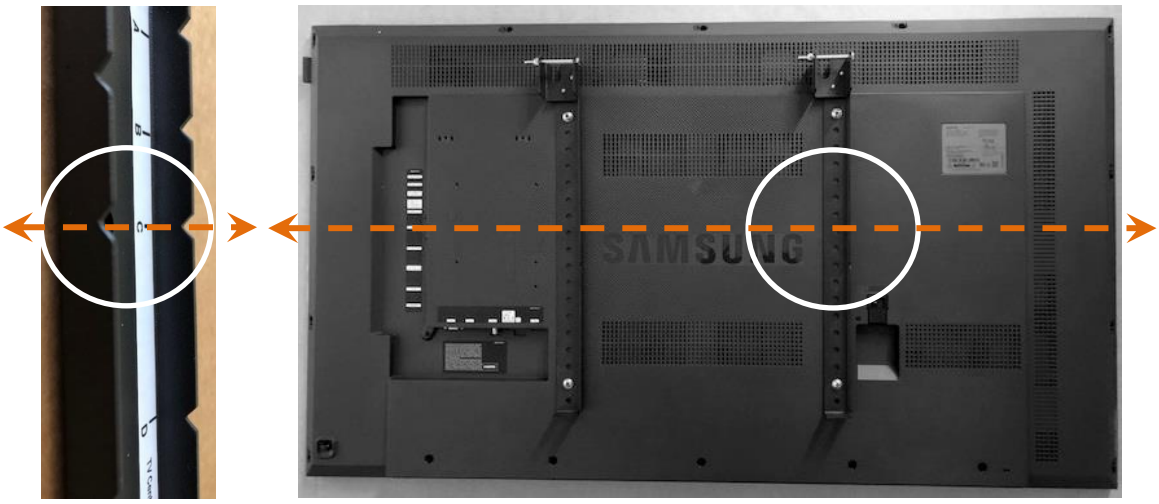
2. Attaching the swing brackets to back of TV

Select the notch on the swing bracket based on the size of the TV (see table and image below)



Model	Centre Line Notch Indicator
DS4239	A
DS5550	C
DS6560	D
DS7570	E
DS8680	Centre line label
DS9890	Centre line label

Following these directions will ensure that the TV is properly centred top to bottom in your Apollo cabinet.



A B

a. Select the notch on the swing bracket (see diagram A) based on the cabinet model, as in the chart above.

b. Find the vertical centre line of your TV by placing a tape measure vertically top to bottom on the rear of the TV and mark the centre of the TV with a pencil. (see diagram B)

c. Line up holes on swing bracket with TV VESA holes so that the appropriate notch in bracket lines up with centre line of TV (as close as possible).

d. Select the proper size metric screw with washers (included with the TV mount) that fit the TV VESA holes and screw the brackets in place. Be sure to tighten screws down to fit securely. If screws are too long, use additional washers between the bracket and the screw head.

3. Attaching internal swing mounting brackets to inside of back panel

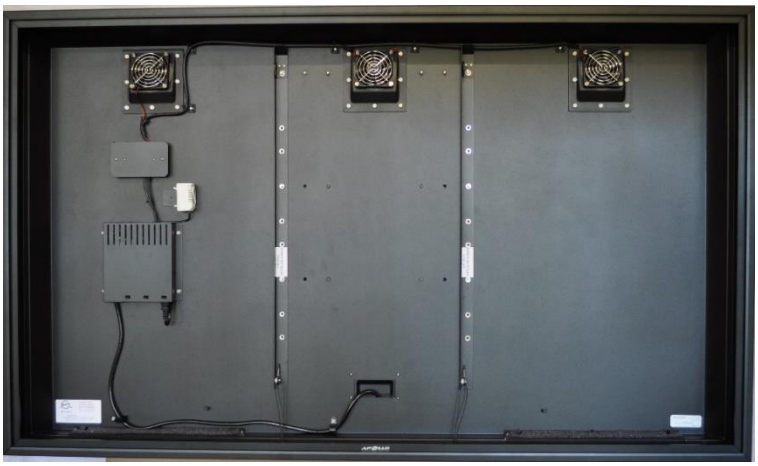
The stiffener brackets need to be spaced to match the width of the VESA pattern on the back of your TV. If it is necessary to move the brackets, loosen the 10-24 lock nuts, relocate to the alternate position and retighten.

Models DS4239, DS5650, and DS6560 are designed for standard TV VESA pattern widths of 200 mm, 300 mm, and 400 mm.

Models DS7570 are designed for standard TV VESA pattern widths of 300 mm and 400 mm.

Model DS8680 is designed for standard TV VESA pattern widths of 400 mm and 600 mm.

Model DS9890 is designed for a standard TV VESA pattern width of 600 mm.



Picture illustrates AE6560 cabinet (US model) with brackets in 400 mm position.

4. Attaching mount brackets to rear of back panel





IMPORTANT!
BE SURE THE O-RING RUBBER WASHER IS PLACED BETWEEN THE BACK OF THE CABINET AND THE STAINLESS-STEEL WASHER TO PREVENT WATER INTRUSION.

Models 43” to 86”

a. Use the set of VESA holes on the back panel which line up with the stiffener brackets on the inside of the back panel and which match the VESA pattern width of your TV. Use the four M6 x 20 metric screws, metal washers, and rubber washers provided to fasten to the threated inserts on the inside stiffener brackets.

b. Be sure that any unused VESA holes on the back panel are sealed with the hole plugs provided.

5. Attaching the back panel to the mount

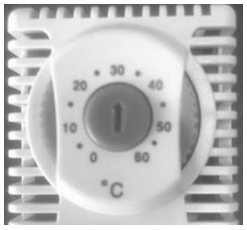
IMPORTANT: Be sure your mount is securely installed to your outside location and all cables are run before proceeding.

a. Attach the back panel to the wall mount, lock the mount in the desired tilt or non-tilt position and tighten the tilt adjustment screws before hanging TV. Refer to the directions included with the mount.

b. Run the power cord through the rectangular hole in the back panel and plug it into a weatherproof power outlet (see safety statement).

c. Run your signal cable(s) from outside through the rectangular hole in the rear panel, to be hooked up in the next step.

d. The fan control thermostat located on the back cover is factory pre-set to turn the fans on when the internal temperature of the cabinet reaches 30°C (86°F). To test fan operation be sure the cabinet is plugged into AC power. Turn thermostat down to lowest setting and once the fans turn on, return the setting back to the 30°C.



°C	°F
0	32
10	50
20	68
30	86
40	104
50	122
60	140

e. Once installation is complete, power must be connected to the cabinet at all times. This is to ensure that the fans operate at any time the temperature is greater than 30°C, whether or not the TV is operating. Failure to do so will void the warranty. Operate the TV using the remote control.

6. <u>Installing the TV to the back panel</u>





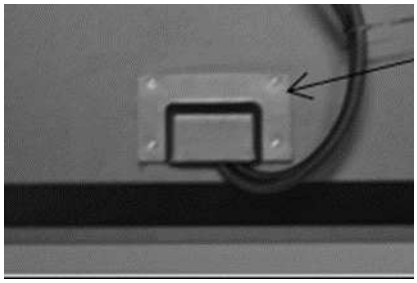
a. Lift the TV and align the white rollers (located on top of the swing brackets) above the hanger hooks on top of the rear panel, and carefully lower the TV into place.

b. Check side to side alignment to be sure the TV is centred left to right.

c. Swing the bottom of the TV outward, plug the TV into the power strip on the rear panel and plug the signal cable(s) into the TV.

d. To lock the TV in place, pull the latch cord down, push the TV toward the bottom bracket and release. Ensure that the latch is closed. Be sure all cables are clear from interfering with the swing brackets.

e. Attach the cable cover, securely tighten screws into threaded inserts, and neatly dress all cables using wire cable management covers on mounts, and wire ties, as necessary.



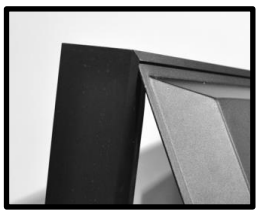
NOTE: For best results, position cables flat against rear panel.

7. Attaching the front cover

IMPORTANT: Test operation of your TV before attaching the front cover

Hold the cover at a slight tilt and carefully align it from left to right so it is centred over the flange of the rear cover (see pictures below). Once aligned, drop down cover so flange fits securely into channel. The cover should now freely pivot down to a closed position.



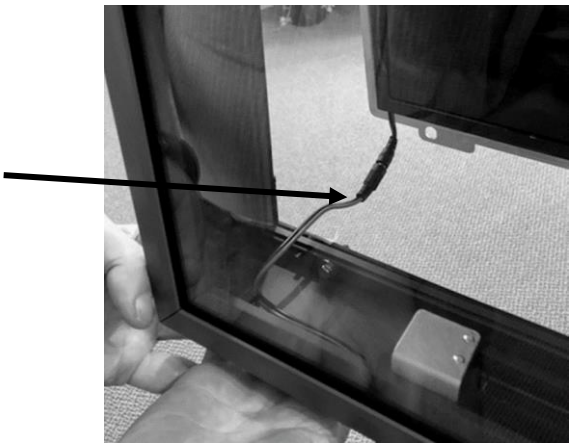


Flange on top of rear panel fits into top channel on front cover.

<u>IMPORTANT</u>: To power the front fans

Before closing the front cover, plug the connector in the back panel to the connector in the frame (as shown). Tuck the wires underneath the TV before closing the front cover.

Failure to connect the front fans may result in damage to your TV and will void the warranty on the cabinet.





Remove the flange nuts from the studs at the bottom of the front cover. Push the front cover studs through the tabs in the back cover and secure with the flange nuts.

Carefully tighten to secure seal

Maintenance and care

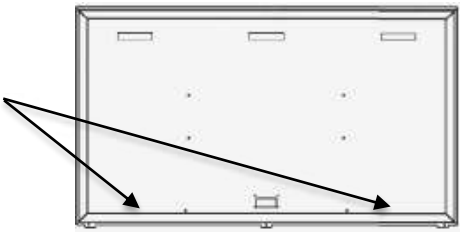
Cleaning the glass

Apollo cabinets are equipped with anti-reflective safety glass to ensure the best possible viewing experience. To properly clean the glass, we recommend the use of a soft cotton or microfibre cloth. Ensure that there is no sand or grit on the cloth. **Do not use paper towel, tissues, or rags as they may damage the coating on the glass and leave lint behind.**

For cleaning the glass, we recommend a 70/30 isopropyl alcohol / water mix. Spray the cleaner on the soft cloth and gently clean the glass.

Air filters

Dark grey reusable air filter pads are installed over the speaker grilles. (See diagram). These filters have a MERV 5 rating. This standard is used for determining the filters' ability to capture and hold dirt and dust in specific size ranges. These filters will collect particles as small as 3 microns.



- To clean the filters, remove the two screws securing the front cover and lift the bottom of the cover forward.

- The filters are located at the bottom left and right of the rear panel. Lift the tabs on both sides of the filter and remove the filter.

- Wash the filter with mild detergent and warm water to restore it to its original dark grey colour. **Important! After rinsing the filter, let it air dry before re-inserting in the cabinet. Do not squeeze the filter as it will cause the breakdown of the cells and damage the structure to properly filter the air.**

- Once the filter is dry, lift filter tabs on both sides and re-insert the clean filter over the speaker grilles using the tabs to hold it in place. Re-attach the front cover.

- If there is damage to the filter, please email contact@digiscreens.ae to purchase a replacement.

Basic cleaning of cabinet housing

- With a soft cloth and warm soapy water, wipe dirt, dust, bird dropping, etc. from frame; rinsing the cloth frequently to avoid scratching the powder coated aluminium with dirt or sand. **Do not use this same cloth to clean the glass – see instruction above for cleaning the glass. Avoid using harsh chemicals, abrasives or solvents when cleaning the surface of the housing.**

- We recommend the purchase of our custom designed dust cover (optional accessory) to protect the beauty of your cabinet for years to come.

Optional Accessories

Visit www.digiscreens.ae specifications page for information on the following or contact@digiscreens.ae to purchase

- Dust Cover (DC4239, DC5550, DC6560, DC7570, DC8680)
- Security Bracket Kit (SK100-WM)
- Heater Module (HM200i, HM200i-D)

Troubleshooting

Following is a list of possible concerns and the solutions to them. Please check list before you contact customer service.

- **Safety –** Review all safety instructions and warnings in the guide before troubleshooting.

- **Front Cover doesn't close properly –** Check to ensure the top left and right back panel corners are in line and fit inside the front cover. Once the back and front are aligned, the cover will close safely and securely to the back panel.

- **Rear screw closure holes don't line up –** The front cover may not be aligned exactly right on the rear panel. Check left and right edges to verify that they are equally seated on the top edge of the back panel.

- **TV does not lay flat against the back panel –** Check the cable connectors from the TV to your source to see if the connectors are impacting the back panel. If so, you may need to obtain right-angle adaptors, to reduce the depth of the connectors.

- **Glass has streaks or slight imperfections –** Anti-reflective glass has an inherent property that will manifest as slight imperfections that may be noticeable when the TV is not playing. Once the TV is turned on, you will never notice any problems. If streaks are from cleaning, please see Maintenance and Care section for cleaning tips.

- **Condensation is frequently present on the inside of the glass –** This is an indication that you are in a high humidity area. The condensation will disappear in a short period of time after the TV is turned on, as the heat will dry any moisture. Alternatively, if this is a frequent event, we recommend the purchase of a heater module (see above) which switches on at a pre-set temperature to virtually eliminate condensation. It can also be used in cold areas.

Warranty

Apollo cabinets and accessories are warrantied for one year in-factory parts and labour from the date of original purchase.

Please go to our website www.digiscreens.ae for full details on warranty and return policies.

Federal Law Number 15 of 20 - UAE New Consumer Protection Law applies.

Compilation and Publication Notice:

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The contents of this document and the specifications of the products are subject to change without notice.

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