AWOL
VISION

AWOL VISION Ambient Light Rejection Daylight Screen Instruction Manual



Thanks for choosing the AWOL VISION rollable Fresnel fixed frame Ambient Light Rejection dalight screen ALR-D100 and ALR-D120. Please read this manual carefully before installation and use.

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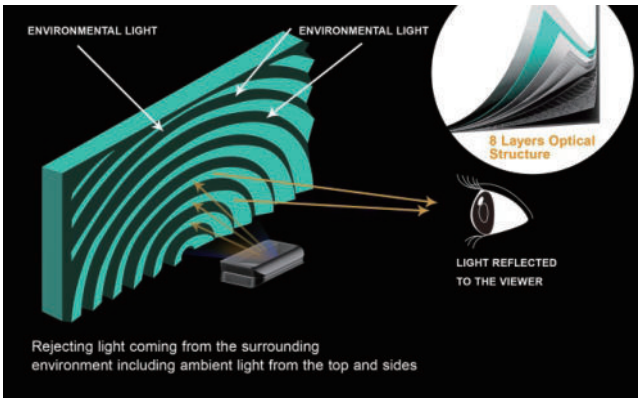
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KNOWING YOUR SCREEN

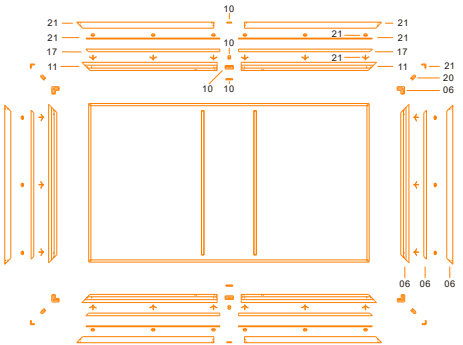
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1.1 How it works



AWOL DLR rollable Fresnel daylight screen is equipped with 8 Layers optical structure to offer 4K&8K Ultra HD resolution, 3D capable, 1.1dB peak gain, 85% rejection ratio, neutral color temperature, and enhanced picture contrast in a theater, grade image.
The main Fresnel prism layer uses the concave structure divided into semicircles, and the screen is full of semi, circular lines from large to small that is only receptive to the projection light from below the center of the circle while rejecting light coming from the surrounding environment including ambient light from the top and sides which supports to be used in living room daylight enviroment.

1.2 Exploded Overview



1.3 Package Contents





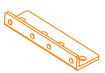

Phillips–Head Screwdriver*2	M4*6 Screws*90	User Manual*1	Gloves*2(pairs)





Inner Frames*2	Inner Frames*2	Inner Frames*2





Middle Support Joint(Outer frames)*2	Inner Splice Joint*2	Inner Frame Connectors*2





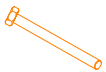
Elbow Joints (Inner Frame)*4	Outer Frame Four–corner Support Joints*4	Support Rod*2



ALR Screen *1	Fiberglass Strips*6




Outer Frames*2	Outer Frames*2	Outer Frames*2

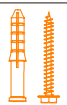

T–nuts*18	Tie rod*18	Leaf spring*18

Vertical tie rod*2	Horizontal left tie rod*2	Horizontal right tie rod*2

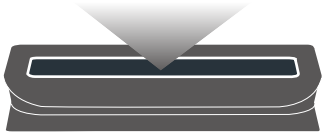




Elbow Joints(Outer Frame)*4	Outer Frame Splice Joint*2	Velcro tape*3


Cleaning Cloth*1	Wall Anchors with Screws*6(sets)	Wall Brackets*3



ASSEMBLING YOUR SCREEN

2

2.1 Assemble the Inner Frames

Tips: Spread the padding cloth prepared in the packing case on a clean and flat ground, and assemble the inner frame on the padding cloth.

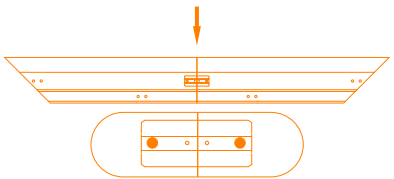
1.Splice the long sides of the inner frame and fix them with (M4*6) screws.

V



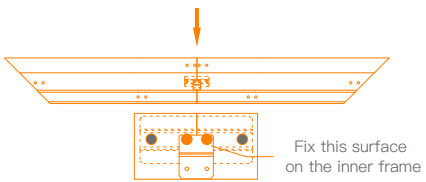
Install inner frame splicing parts

W



Fix two screws on the outer side of the inner frame splicing parts

X



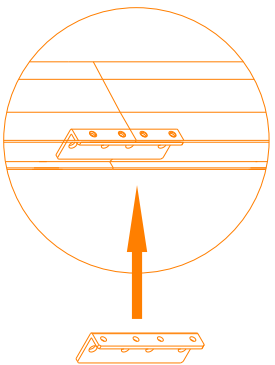
Align the intermediate support members of outer frame with the threaded holes of the inner frame splicing parts and tighten the two middle screws

④

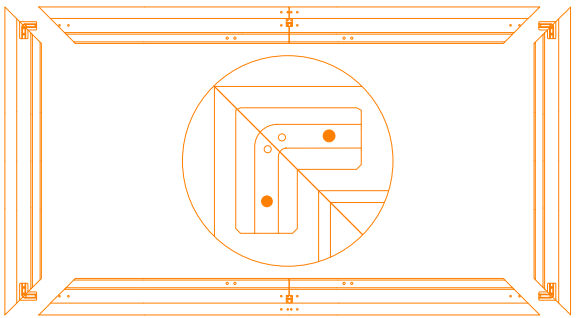




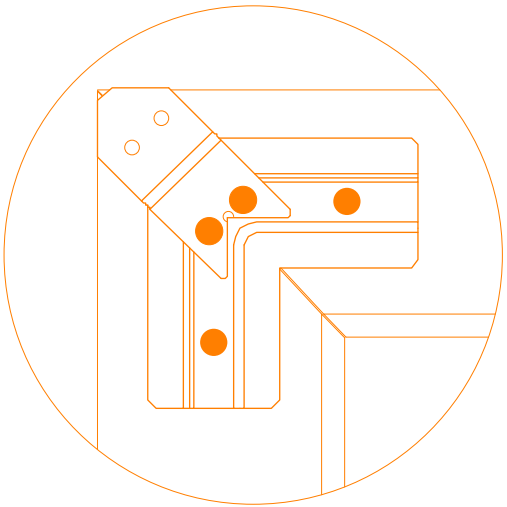
Install inner frame connector



2. Splice the inner frame corner connector with the inner frame, fix the two screws on the outer side of the inner frame corner connector with (M4*6) screws, and leave the two screw holes in the middle blank.

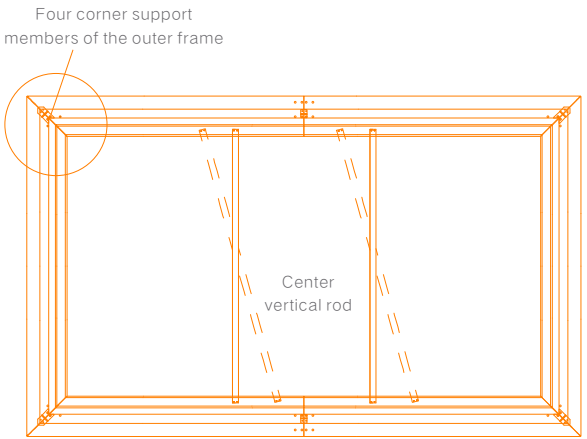


3. Align the four corner support members of the outer frame with the threaded holes of inner frame corner connector, and fix the two middle screws of the inner frame corner connector with (M4*6) screws.



4. The center vertical rod is screwed into the mounting hole of the inner frame at an angle and fixed with (M4*6) screws.

Note: Pre-fix the screws first and tighten them later.

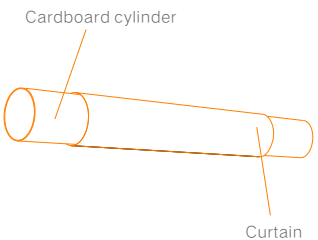


2.2 Assemble the Screen

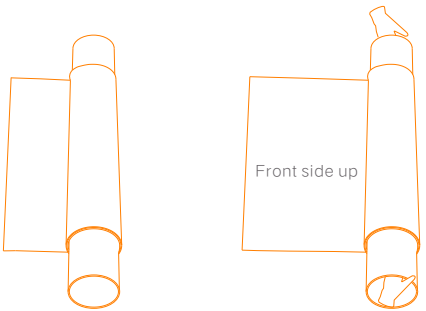
1. Put on gloves and place a clean cloth (or use the packaging material for the screen) on a flat, clean and level surface.



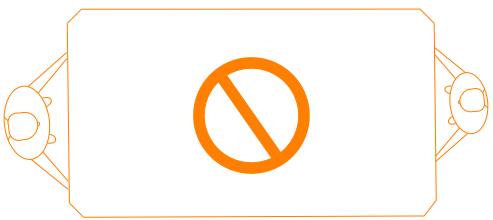
2. Wear gloves and lift the screen out of the packing case by two people.



3. Unroll the curtain on the padding cloth and check the screen surface.



Note: Prohibition of flipping and lifting.



4. Two personnel stand respectively on both sides of the screen width direction, and flip the screen to face down according to the order shown in the diagram.

①



②



③



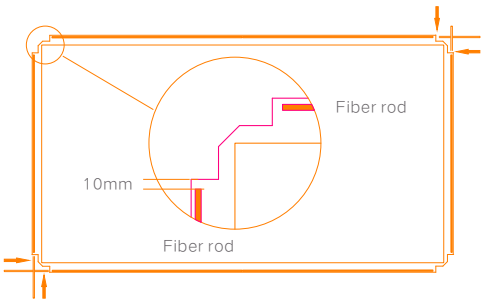
④

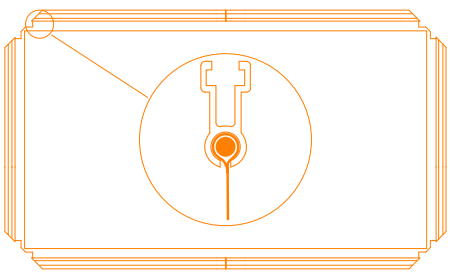


Note: Control the magnitude and strength of the action to prevent the screen from bending which may cause irreversible damage to the curtain.

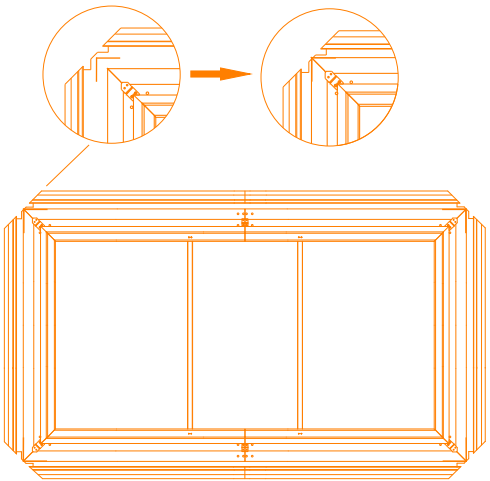
5. Thread the fiber rod and tie rod into the four sides of the curtain. Pay attention to distinguish between the long and short sides.

Note: The fiber rod is penetrated into 10 mm of the base cloth to facilitate its penetration into the tie rod.

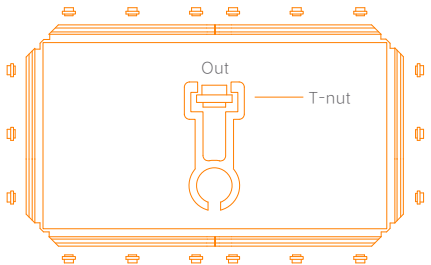




6. Two personnel lift the inner frame horizontally to the screen base cloth, and adjust the position of the inner frame so that it is centered relative to the base cloth.



7. Put the T-nuts into the corresponding position of the tie rod, with 3 T-nuts installed at each tie rod. Pay attention to distinguish the direction of the T-nuts. The side with large thickness faces out.



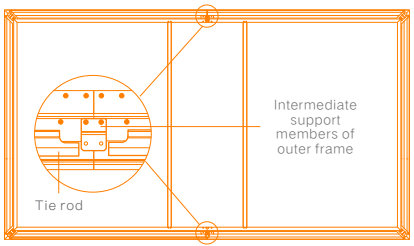
Note:

① When the long-side tie rods are flipped and aligned, the intermediate splicing needs to be checked for alignment.

② The leaf spring nuts need to be strictly pre-installed and tightened in two steps.The sequence of simultaneous tightening of the short side first and then the long side should be followed.

8. Flip the tie rod of 180 ° towards the inner frame of the screen and center it for alignment.

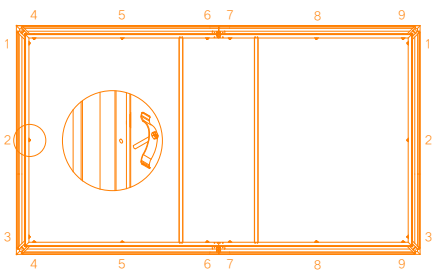
   Align the tie rod with the intermediate support members of outer frame based on the position shown in the figure to avoid interference.



9. Pre-install all leaf springs and nuts from the inner side of the inner frame to the corresponding hole.

   Tighten the nuts synchronously by two persons in the sequence of short side first and then long side.

   Lift the screen to check whether the diaphragm is beyond the frame, whether the screen is taut and flat, and adjust accordingly.

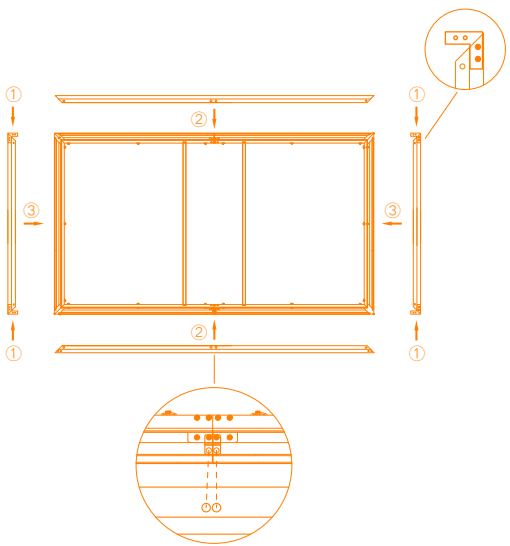


2.3 Assemble the Outer Frames

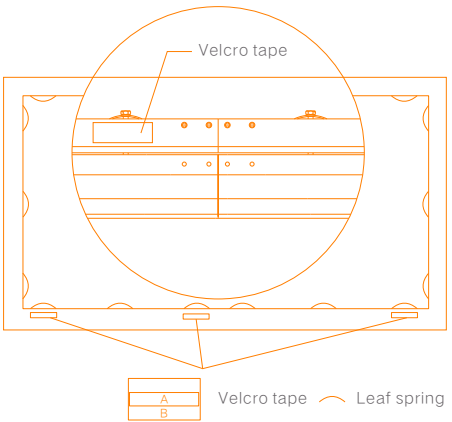
13. Splice the long side of the outer frame with the outer frame connector and fix it with screws (M4*6).

14. Insert the outer frame corner connector of the short side, and pre-fix it with screws (M4*6).

    After the inner frame is pushed into the long-side outer frame, then do the same with the short-side outer frame, and fix the support and intermediate support at the four corners of the outer frame corner connector with screws (M4*6).



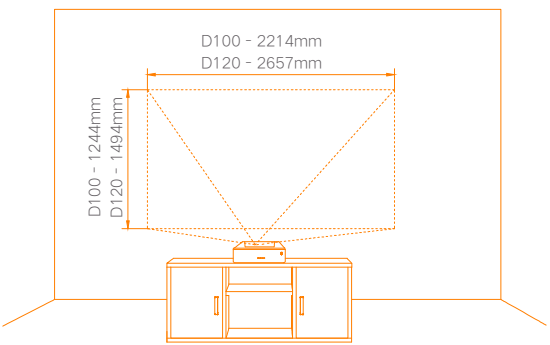
15. Tear off the release film on side A of the Velcro tape and stick the three Velcro tapes to the area shown in the figure.



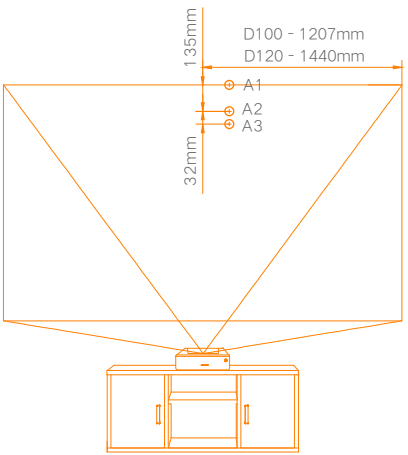
2.4 Mount on the Wall

Before installation, please confirm that the wall can be perforated and the bearing capacity is greater than 50 kg.

1. Project a rectangular projection picture in the center of the installation location, and use a tape measure to determine the bottom edge of the projected screen to be about 2214mm(D100)/2657mm(D120) long, ensuring that the bottom edge of the projection picture is level (with the ground as the reference).

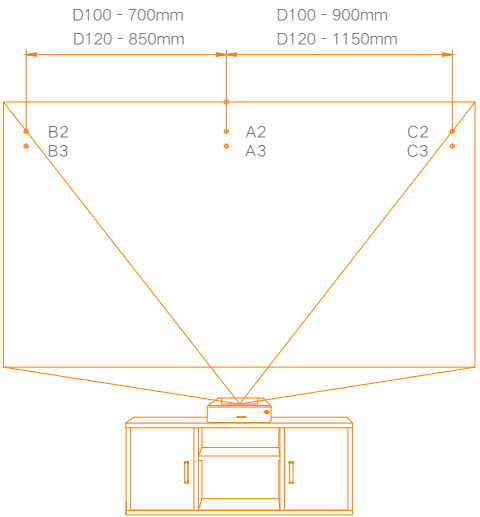


2. Mark the punching points. Take the fixed edge of the projection picture from right to left (1,440 mm) as reference point A1; from which 135 mm vertically down as punching point A2; from which 32 mm vertically down as punching point A3.

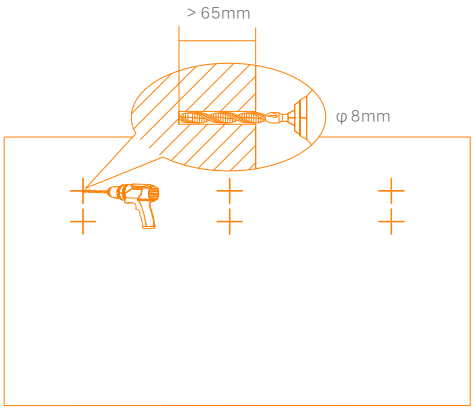


3. Take A2 and A3 as the benchmark, mark B2 and B3 at 700 mm(D100)/ 850 mm(D120)

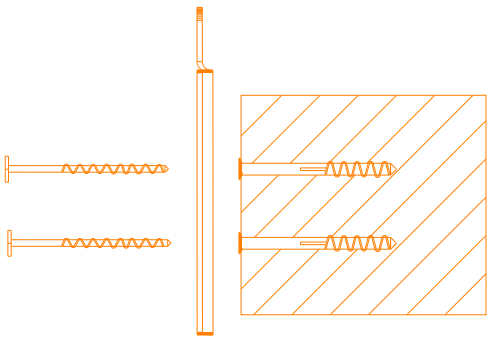
   horizontally to the left and C2 and C3 at 900 mm(D100)/1,150 mm(D120) horizontally to the right. Note that A2, B2, and C2 need to be on the same horizontal line, and so do A3, B3, and C3.



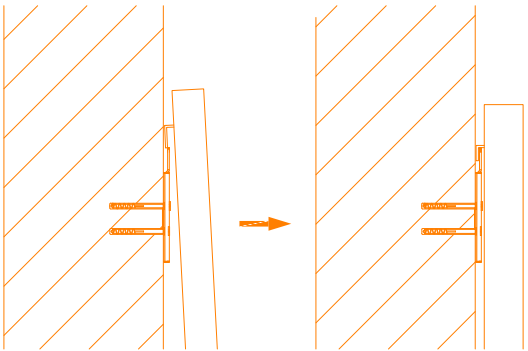
4. Drill holes at 6 punching points with a drill bit diameter of 8 mm and a drilling depth of not less than 65 mm.



5. Nail the expansion screws into the eleventh and fifteenth holes on the wall hanging (for the sake of longitudinal adjustment space in the future) to fix it to the wall.

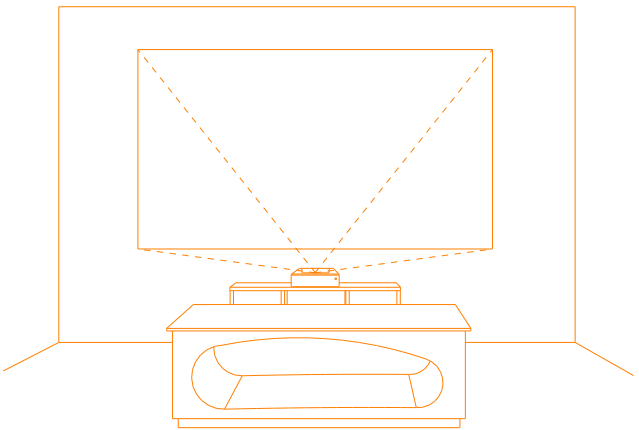


6. Push the top edge of the screen into the wall hanging. During this process, tilt the screen slightly outward (approximately 3 °) and release gently.

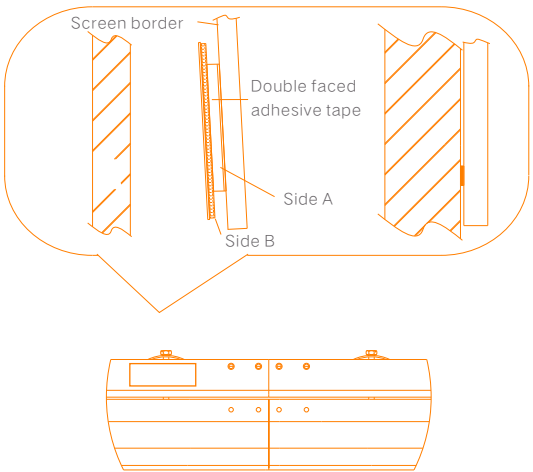


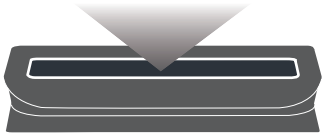
*If the screen height is found to be inappropriate, re-adjust the hole position of the wall hanging

7. Check if the projection screen is full and make sure the display is normal.



8. Remove the double faced adhesive release paper of Side B of 3 Velcro tapes under the screen, put the screen back on the wall, press and fix the Velcro tape to complete the installation.



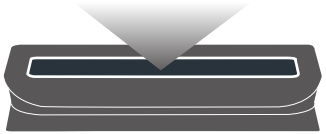


Specification

3

3.1 Specification

AWOL Vision ALR Daylight Screen Specification		
	ALR-D100	ALR-D120
Size	100 inch	120 inch
Material	Fresnel PET	Fresnel PET
Roll-able	Yes, on-site assembled	Yes, on-site assembled
On-axis Peak Gain	≥ 1.5 dB	≥ 1.2 dB
Resolution	up to 8K	up to 8K
Ambient Light Resistance	≥ 80%	≥ 80%
Viewing Angle°	90°	90°
Contrast vs Matte White (lights-on enviroment)	75 times	75 times
Frame Material	Aluminum Alloy	Aluminum Alloy
Projection Ratio	16:9	16:9
Projector Lens Throw Ratio	UST	UST
Screen Size	88*49.9*1.5 inch 2236*1267*37 mm	105.6*59.8*1.5 inch 2681*1518*37 mm
Screen Weight	33 lbs / 15 Kg	39.7 lbs / 18 Kg
Package Size	59.8*13.0*14.0 inch 1520*330*355 mm	68.5*13.0*14.0 inch 1740*330*355 mm
Package Weight	57.32 lbs / 26 Kg	77.16 lbs / 35 Kg
Operating Temperature	14° - 122° F -10 - 50°C	14° - 122° F -10 - 50°C



Maintenance& Precautionary Notes

4

4.1 Maintenance & Precautionary Notes

Dust, dirt and scratches on the projection screen surface will affect the quality and performance of the projection image. For optimal results we advise to pay attention to the following instructions.

1. Please clean the dust on the screen surface with a soft brush or microfiber cloth (rough towel or cloth may damage the screen's surface).
2. Gently wipe the screen with a moistened microfiber cloth with mild soap diluted in water.

The following precautions should be followed at all times to avoid damaging the material, which is not covered under warranty.

1. Don't touch the screen material to avoid leaving fingerprints. Use gloves when handling the material.
2. Don't scratch the material, as it will leave permanent markings on the screen's surface.
3. Don't point to the screen material with a fingertip or other sharp objects to prevent damage to the material.
4. Don't use acetone, benzene, alcohol and any other organic solvents to clean the screen material. Using such chemicals will permanently damage the screen.

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