



Weatherproof Outdoor LCD Outdoor TV
(with Digital Wireless Signal Transmission)
Models 32/27

Operator's Manual



IMPORTANT SAFETY INFORMATION AND PRECAUTIONS

PLEASE READ THOROUGHLY

Congratulations on your purchase of the MirageVision™ LCD TV. This product is designed to be permanently installed outdoors. To ensure safety and minimize mechanical problems, please read in detail before using or installing this product.

All operating instructions must be read and understood before the product is operated.

This manual should be kept in a safe place for future reference.

All safety and operation instructions must be followed.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment that is not expressly approved by the manufacturer could void the user's authority to operate this product and could further void the product's warranty.

WARNING: The External AC/DC Power Pack should not be installed within 10 feet of any water source.

WARNING: AC/DC Power Pack 3 Prong Plug must be installed in an outdoor 110V GFI Grounded Receptacle. Power Cord should be routed so they are not likely to be walked on or pinched by items placed upon or against them.

CAUTION: TO PREVENT ELECTRICAL SHOCK, OR DAMAGE TO THE PRODUCT, ONLY INSTALL THE AC PLUG INTO A 110V GFI 3 PRONG GROUNDED CIRCUIT BREAKER RECEPTACLE.

WARNING: Do not under any circumstances, install the AC/DC Power Pack directly on the ground or any area that could become flooded. **Please read "Warning Label" located on the External AC/DC Power Pack.**

WARNING: Do not use attachments or accessories not recommended by the Manufacturer. Use of improper attachments or accessories can result in accidents or damage to the product.

WARNING: Do not, under any circumstances, submerge the product in/or under water, the product is resistant from water exposure from normal rain fall, normal snow, sprinklers, and garden hoses, etc.; however the product is not designed nor approved to be submerged in or under water or snow. Also, do not use pressure washers or high pressure water jets on the product. The product is not designed to withstand hurricanes, tornados, or dust storm, you should always remove and bring indoors at any sign of these types of weather conditions.

WARNING: Do not operate the product during an electrical, lightning or rain storm. Turn the TV OFF, UNPLUG the Power Plug and wait for the weather to improve.

VENTILATION: Slots or openings on the cabinet are provided for proper ventilation purposes. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked, enclosed or covered. Do not install product in a built-in and/or airtight enclosure, unless the proper ventilation is provided.

Do not allow or poke any metal pieces or objects of any kind into the ventilation holes. High Voltage flows within the product, and inserting an object can cause electrical shock and/or short out internal parts.

Do not mount the product near a motor or transformer that could generate a strong magnetic field. This could cause the TV Screen to become distorted or the color to be irregular.

Do not mount the product near any heat sources, such as; radiators, heaters, stoves, fireplaces, and any other heat-generating products.

Do not open the outer cabinet, as the internal parts and components could carry “High Voltage” and you may become seriously injured if you touch them. Warranty will not be honored if the user opens the unit and services the product.

Avoid touching the front screen, as skin oils are sometimes difficult to remove.

CLEANING INSTRUCTIONS: Clean using a soft cloth with mild detergent using warm water. Remove any dirt or salt deposits from the product. Remove any snow or ice deposits, using a soft brush or towel.

We do not recommend the use of any ammonia or alcohol-based cleaners on the LCD TV screen. NEVER CLEAN THE PRODUCT WHILE IT IS IN THE “ON” POSITION...ALWAYS TURN “OFF” WHILE CLEANING.

OUTDOOR ANTENNA GROUNDING: If not using the Wireless Signal Transmitter Package and if you are connecting an outside antenna or cable system is connected to the LCD TV Set, be sure the antenna or cable system is grounded to prevent voltage surges and build-up static charges. Article 810 of the National Electrical Code, ANS/NFPA 70, provides information on the proper grounding of the antenna mast and supporting structure, grounding of the lead-in wire to requirements of the grounding electrodes. NOTE TO CATV SYSTEM INSTALLER: This is a reminder provided to call the CATV system installer’s attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as possible.

WARNING AGAINST LIGHTNING: For added protection, during a lightning storm, or when the product is left unattended and unused for long periods of time, unplug the product’s AC plug from the wall outlet and disconnect the antenna or cable wire (if applicable). Always unplug before the storm and NOT DURING THE STORM, if lightning strikes the product while you are in the process of touching the wires, it can cause serious injury. Turn the Product OFF and wait for the weather to improve.

FCC COMPLIANCE STATEMENT: This equipment complies with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designated to provide reasonable protection against harmful interference. This equipment generates, uses, and radiates radio frequency energy, and may cause harmful interference to radio communications, if not installed and used in accordance with the enclosed instruction. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and the on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Relocate or reorient the LCD TV or the receiving antenna.
2. Increase the separation between the LCD TV and the Wireless Transmitter.
3. Connect the LCD TV into an AC outlet on the circuit that is different from that which the receiver is connected.
4. Consult with an experienced radio/TV technician for assistance.

WALL, POLE OR TABLE TOP INSTALLATION: Always install the LCD TV, so it is securely fastened to its base and installed so the LCD TV will not fall over, or fall into any pool or spa.

INSTALLATION AND OPERATION OF THE MIRAGEVISION LCD OUTDOOR TV

COMPONENTS WITHIN THE BOX:

1. LCD TV Unit
2. One TV Unit External AC/DC Power Pack with AC Plug
3. One Digital Wireless Video/Signal Transmitter (DWT) with AC/DC Power Pack
4. Two Receiver Signal Antennas
5. One Hand Remote Control (two batteries included)
6. One IR Wire

MOUNTING YOUR OUTDOOR LCD TV:

LOCATION: Although not necessary, you should try to locate your Outdoor LCD TV in a shaded area (this will give you the best possible picture at any time of the day). **Note:** Our MirageVision LCD TV has proprietary built-in UV Shield LCD Pixel Protection (UVSPP) that protects the LCD screen from direct Sun UV Rays damage. The unit has built-in protection that when the sun's rays are too strong and shining directly onto the LCD screen...the unit's screen will "black out" until the sun moves away from the unit or you move or turn the unit away from the direct sun rays from pointing onto the screen.

Make sure you fully secure the TV unit to our optional table top or taller ground stand or any wall using aftermarket optional adjustable wall brackets (you can purchase these at most any electronic stores, such as; Best Buys, Circuit City, Comp USA or Internet).

INSTALLING LCD TV UNITS EXTERNAL AC/DC POWER PACK: The LCD TV unit comes equipped with an external AC to DC power pack. You must plug the 3 prong AC plug into any outdoor GFI (Ground Fault Interruption) AC 110V outlet.

CAUTION: Do not mount the power module directly onto the ground. Mount as close to the GFI AC 110V outlet as possible, keeping the module off the ground. You can also mount the module on the back of your stand, as long as the stand and the LCD unit are minimum of 10 ft. away from any water source.

The other cable, coming from the TV Unit, plugs into the round style matching jack located on the AC/DC power Pack. This delivers DC power to the TV unit. This DC cabled is located on the bottom of the TV and is installed through the input component box's bottom cover.

WIRELESS RECIEVER SIGNAL ANTENNA'S: There are two black "screw-on" antennas that come with the unit. You must install them on the bottom of the TV Cabinet. **Note: Do not over tighten, just hand-tighten. Do not force turn against the "swivel" or could break the Antenna off from the cabinet.** For the best reception, angle antennas to point towards the ground. You might have to re-adjust them for the best reception and distance.

External Antennas (used to receive DWT signal)
(for best reception in most cases...point antennas towards the ground)



POWERING UP THE TV UNIT: Once plugged into an GFI AC power outlet, a red LED light should be “on” in the right hand side of the TV display window (located under the front screen). Using the wireless hand-held remote, push the orange power button to turn “on” the TV. You should now see the red LED light turn to green.

Make sure the LCD screen color is “blue” and it is in the “digital receive” mode. The “digital receive” lettering should be displayed on the top left portion of the screen. If not, you will need to push the “Source” button on the hand remote, as well as move the highlight bar using the CH+ and CH- to highlight digital on the screen. Then, push the Menu button on the remote. This should reset the TV to digital mode.

INSTALLING THE INDOOR DIGITAL WIRELESS TRANSMITTER (DWT)

Once you have the TV power “On” and set to digital receive mode, you can then install the Indoor Digital Wireless Transmitter (DWT). For the best display demo, we suggest installing the DWT to a DVD player, digital HD satellite receiver, or cable tuner equipped with an S-Video Out Jack. Install the DWT indoors, near your video equipment cabinet, but try to install the DWT unit as close to a window as possible, and not more than 300 ft. (line of sight) from the outdoor TV unit. Plug the DWT AC Power Module (that comes with the DWT) into any indoor AC 110V outlet. Plug the other barrel style jack into the back of the DWT unit labeled “Power In.” Always try to point the “front” of the DWT towards the TV unit (this will give you the best “line of site”) for the transmitted signal.

Depending upon which source you are intending to use, such as DVD, satellite receiver or cable receiver, you will need to install a S-Video type cable into the Video IN Jack, located on the back of the DWT. Then plug the other end of the S-Video cable into the S-Video OUT, located on the back of your chosen source (DVD, satellite receiver or cable receiver). This will send the signal from your “Source” to the “DWT” and from there outside to your “LCD TV Unit.”

INSTALLING AUDIO CABLES FROM SOURCE TO DWT

Use any RCA style jack to hook up audio signal from your source to the DWT. To accomplish this, install the red and white RCA jack into the “Audio Out” red and white of your Source. Plug the other red and white jacks into the matching “Audio In” located on the back of the DWT. This will send the audio signal from your Source to the DWT.

NOTE: RCA audio cables and the S-Video cable are provided with the 27 and 32 inch units. These cables come in different lengths, as you might need longer ones, depending upon how far away you mount your DWT from your source. You can be purchased longer cables at most electronics store such as Radio Shack, Best Buy, Circuit City, Home Depot, Kmart, Wal-Mart, Target, etc.

Once your connections are correct, push the Power Button, located in the back of your DWT to the “IN” position. This will power up the DWT unit. **CAUTION:** Make sure all connections are correct before turning on the DWT. If all connections and settings are correct, you should now have a picture on your LCD TV screen.

INSTALLING SOURCE “IR” WIRE: Plug this IR wire into the Jack labeled “IR” located on the back of the DWT. Then mount the other end (the end with the IR bulb), so the IR bulb is positioned pointing towards the “source” IR window. This will allow the user to use the “Source’s” Hand Remote Control (outside) and point it towards the front of the LCD TV to control the “source” functions. **Note:** You must use the “source” Hand Remote Control to control the functions on the “Source.” You will still need the MirageVision Hand Remote Control to operate the TV and Volume Functions.

Digital Wireless Transmitter (front view)



Digital Wireless Transmitter (back view)



PLEASE KEEP IN MIND: The TV’s picture quality is preset for outdoor bright sunlight conditions. To re-adjust picture brightness, contrast, color and sharpness, push the “Picture Button” on the remote to choose the function. Once you make a selection, use the VOL- or VOL+ to adjust settings. After 15 second the display will disappear and settings will update to your selection. To adjust the TV Picture to the best and sharpest Picture, adjust the Brightness, Contrast and Backlight (B/L). Keep the “Sharpness” low for the best possible Picture.

TROUBLE SHOOTING:

For the best outdoor picture quality, set the TV in a shaded area, avoiding direct sunlight on the screen, as direct UV rays can deteriorate picture quality. The MirageVision Outdoor TV uses proprietary Anti-UV protection circuitry, keeping the LCD panel from direct sunlight/UV damage. To protect the liquid crystals from damage, the TV's LCD screen will turn to "black" and fade out. If this occurs, simply turn the TV "OFF" and move it out of direct sunlight and the picture will return in a few minutes or simply wait until the sun has moved way from shinning directly onto the LCD screen. This could be more prone to occur from 11:00 a.m. until 3:00 p.m. (during peak sunlight and high UV hours). **NOTE:** Prolonged everyday use of the TV in the direct sunlight could cause LCD screen damage.

If There is No Picture on the TV Set...

1. Double-check to be sure the signal is playing on and through your source.
2. Check that the TV is powered "ON" and displays a blue screen.
3. Check that the S-Video Cable on the DWT is installed properly to the S-Video In and the S-Video Out on the DVD or the Source.
4. Check that the Power Button on the DWT... make sure it is in the "On" position (Pushed In).
5. Check that the DWT is not too far away from the TV or point it towards the TV Unit.
6. Check that the TV Input is in Digital Receive Mode.
7. If there is still no picture, turn "Off" the TV, unplug it and wait a minute. Then plug TV back into the AC outlet and repeat procedure again. If the TV is still not working, please call our Technical Support Line.
8. If the picture "freezes" on the screen while using the Digital Receive Mode, simply power OFF the LCD TV and then Power back ON.

If There is No Sound on the TV Set...

1. Check that the "red and white" audio cables are connected correctly.
2. Check that the volume on the TV is turned up and you are not in the "mute" mode.

NOTE: Because of the design of the water resistant cabinet the speakers will not play real loud...to play TV volume louder, you can add external "wireless outdoor speakers" easily to the unit, by plugging the wireless audio sender to the Audio Out Jacks, located inside of the Input Junction Box, located on the very bottom of the TV Cabinet. The "Audio Out" (red and white) Jacks are the only loose wires in the Input Junction Box.

NOTE: You should use a surge protector between the AC plug and the house AC outlet. Now, (before powering up the DWT) install the S-Video cable to the S-Video In on the DWT and the other end into the S-Video Out on the DVD player. Install the red and white audio cables into the Audio In jack on the DWT and the Audio Out jack on the

DVD player. Plug in the DVD player into an AC 110 outlet and power up the DVD. Install the DVD into the player and push Play on the DVD. Turn on the DWT Power Button (push on - the button will be in the IN position). The picture should be transmitted onto the Outdoor LCD TV.

To Turn OFF TV: Push the Orange Power Button on the hand held remote control and then unplug the TV power cord from the AC outlet. **Note:** The “red” LED will still be ON when the TV Unit is powered OFF and plugged into the AC Outlet. This is normal...when TV Unit is unplugged from the AC outlet, the red LED will go out.

To Turn OFF DWT: Push the Power Button IN on the DWT, so the button is in the OUT position and the Power LED light should go out that is located on the front of the DWT.

Optional Hard-Wired Inputs: Your MirageVision LCD TV comes with optional inputs that are located in the “Input Junction Box” on the very bottom of the unit’s cabinet. You must first remove the “thumb screws” and then remove the back lid. Look inside the box and located on the bottom of the TV cabinet is the optional input jacks. These jack inputs are labeled and are for the purpose of hard-wiring from the “source” directly to the LCD TV. You can slip the input wires through the sponge rubber located on the very bottom of the Input Junction Box.

Input Box (hard wire jacks located inside)



Switching Input Functions: To switch from one input to another, simply push the button labeled “Source” on the Hand Remote...Then a input source menu will appear on the TV screen...scroll up or down using the Ch- or Ch+ on the Hand Remote until you highlight the proper input selection. Once the proper input is highlighted, then push the “menu” button on the Hand Remote to lock the selection in. If this does not work, repeat this process. **NOTE:** You must have the selected input “hard wired” into you “source” and the “input junction box.”

Optional Audio Out Jack: Located inside the Input Box is a pair of RCA Audio Out Female Jacks. This can be used to install Audio Out from the TV unit to an Amp Source, such as: Wireless Speaker System, or Surround Sound System. **Caution:** Do not install external speakers directly to the TV Units Audio Out Jacks.

Additional Function Buttons: Located on the right side of the LCD TV Cabinet is a set of water-proof buttons. The functions are labeled and they can be used instead of using the Hand-Held Remote.



Hand-Held Remote Control:

- Power Button - This button is orange in color and is used to power ON the LCD TV.
- Display Button - Push for on screen display.
- Mute Button - Push to mute the sound...Push again to un-mute sound.
- MTS Button - No Function
- CHRTN Button - No Function
- FAV Button - No Function
- Picture Button - Used to select the Picture Functions, such as; Brightness, Contrast, Hue, Sharpness, Saturation, and Backlight.
- Audio Button - Used to select Balance, Treble, and Bass.
- PIP Button - No Function
- Source Button - Used to select input functions, such as; TV/Cable, YPBPR/Component, Digital Receive, S-Video, PC, AV.
- WakeUp Button - Timer mode used to automatically turn the TV Unit "ON"
- Sleep Button - Timer mode used to automatically turn the TV Unit "OFF"
- Exit Button - Used to exit functions
- TV/Video Button - Used to select from TV/Cable Tuner to Video/Monitor Mode
- Loudness Button - Turns sound louder
- 16:9/4:3 - Turns screen into Box Format
- SubV-Chip Button - Enter Code for select Private ON/OFF
- Menu Button - To set...Language, V-Chip, Caption, Memory Recall

Yellow/Red/Green/Blue Buttons (located on the very bottom of the Hand Remote) No Function

Hand Held Remote Control



Caution: The "Handheld Remote" is not waterproof, so do not submerge it in water or leave outside in damp or raining conditions.



LIMITED WARRANTY

2 YEAR PART/1 YEAR LABOR

Conditions of MirageVision Limited Warranty: The MirageVision Outdoor LCD TV is warranted to be free of defects and workmanship from the time of purchase by the original owner. If this product is found and proved to be defective, MirageVision will repair or replace defective parts at no charge for the parts and labor to the original owner, subject to the terms and conditions of this Limited Warranty. This Limited Warranty covers failures due to defects in material or workmanship that occurs during normal use.

1. **Parts** - The warranty period for parts are: Two (2) years from the date of the original purchase. During the applicable limited warranty period for parts, defective parts will be replaced at no charge for the parts. Parts used for the replacement will be warranted for the remainder of the original warranty period for that part.
2. **Labor** - The warranty period for labor is: One (1) year from the date of the original purchase. During the applicable limited warranty period for labor, MirageVision will provide the labor for warranty repair at no charge for a period of one (1) year from the date of original purchase.
3. Original Owner must provide verification of the date of purchase when requesting Limited Warranty Service. A copy of the original Dated Sales Receipt is required together with the product to obtain service under this Limited Warranty.
4. All repairs must be performed by a MirageVision Authorized Service Facility.

THIS LIMITED WARRANTY DOES NOT COVER:

- Shipping damage.
- Damage caused during unpacking, and/or removal of packing material.
- Damage due to improper, incorrect or insufficient AC voltage.
- Damage due to power surges or lightning strike.
- Damage which results from fire, flood, lightning, tornado, hurricane, large hail, extreme high winds, sand storms, vandalism, terrorism or other acts of God or Nature.
- Any unit which has been modified, or damaged due to improper installation or failure to obey the operating instructions provided in the Operators Instruction Manual.
- Any failure, loss, damage or personal injury due to accident, neglect, misuse, abuse, improper operation, improper maintenance, improper storage, alteration to the unit, or failure by the consumer to obey the operating instructions provided in the Operators Instruction Manual.
- Any owner other than the original owner.
- Any unit purchased from an unauthorized seller.
- If the original product serial number has been removed, defaced, or tampered with in any way.
- Any transportation charges incurred in the connection with warranty service.
- Indirect, consequential, or special damages, except as required by federal or state laws.
- Any unit tampered with, modified, adjusted, or repaired by any party other than those authorized by MirageVision.
- Any cosmetic damages to the surface or exterior that has been defaced, or caused by normal wear and tear or exposure to chemicals, acid rain, large hail or adverse weather conditions.
- Picture quality when installed with "direct sun" pointing towards the LCD screen.
- Dirty Airwaves, and/or unusual signal interference or inside walls that could interfere with the video/picture distance between the Digital Wireless Transmitter and the LCD TV receiver unit.

MirageVision and its representatives or agents shall in no event be liable for any general, indirect or consequential damages arising out of/or caused by the use of/or the inability to use this product. This warranty is made in lieu of all other warranties, expressed or implied, and all other liabilities on the part of MirageVision. All other warranties, including the warranties of merchantability and fitness for a particular purpose, are hereby disclaimed by MirageVision and its representatives and/or agents. The laws of some states do not allow exclusion of implied warranties; therefore, this warranty shall be deemed modified to be consistent with such laws. This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state.

All warranty inspections and repairs must be performed by MirageVision or its authorized service representative.

You must register this product “on-line” at www.mirageoutdoorconcepts.com for this Warranty to become valid.

WARRANTY PROCEDURES:

- Contact us at 480-443-8600, we will issue you a Return Authorization Number for you to include with a copy of your original sales receipt for the return.
- You must return the product to us in its original or equivalent packaging. (Our original factory packaging is available to purchase at \$ 25.00 plus freight cost), prepay the return shipping charges, and insure the return shipment or accept the risk if the product is lost or damaged in shipping.
- Please call for shipping address.
- We will make repairs or replace product, as stated in the Limited Warranty and return to you (freight free within United States) via UPS or Fed X ground service.
- If in fact, we have determined that the product is not covered under this Limited Warranty, we will notify you and inform you of service alternatives that would be on a fee basis.