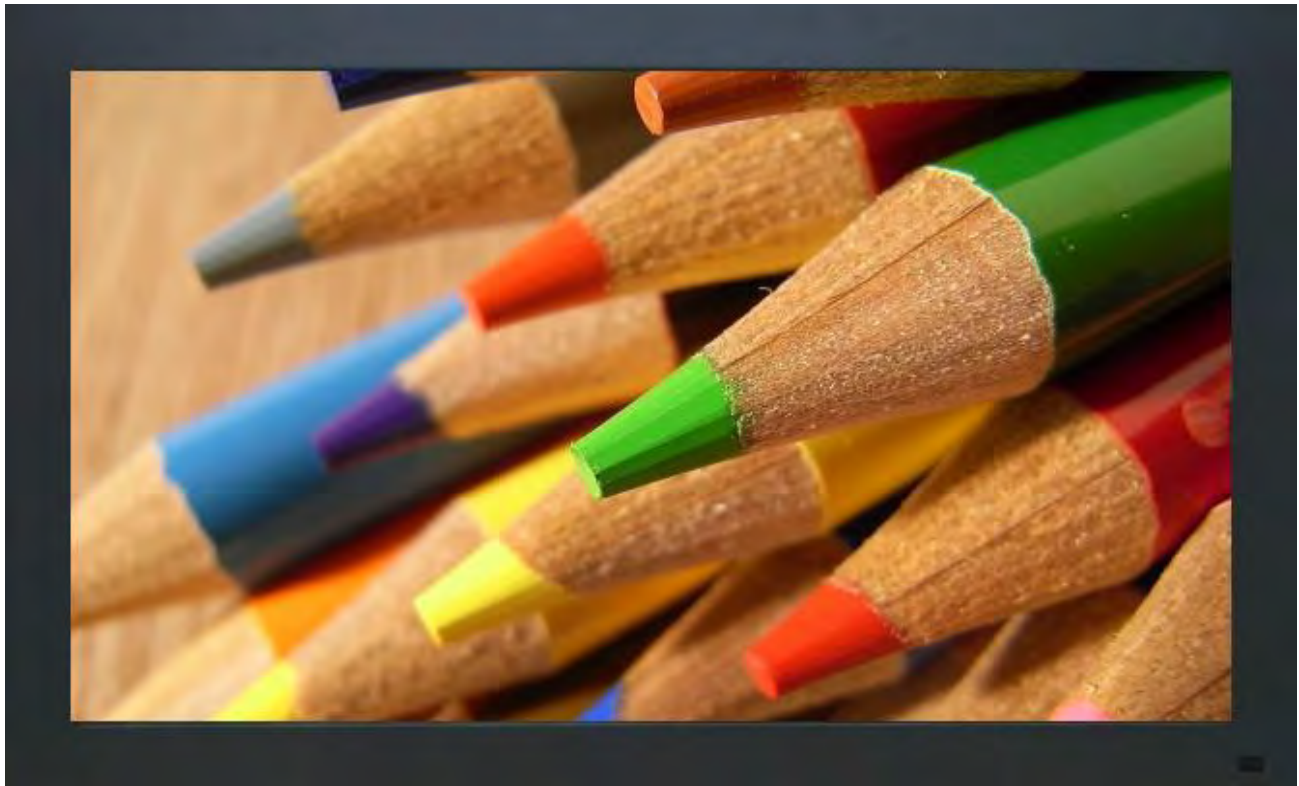




OUTDOOR HDTV

TV User Manual
N42 /N52 /N60LED
ATSC/NTSC Series Operation Manual



To reduce the risk of fire or electric shock, do not expose this product to **severe heat or submerge underwater**. To aid reporting in case of loss or theft, please record the TV's model and serial numbers and keep in a safe place.

Table of Contents

Important Safety Instructions.....	2
Supplied Accessories.....	2-3
Key Features.....	4
Key Functions & Support.....	5
Getting Started (How to Connect).....	6-9
On-Screen Display (OSD) Operations.....	10-18
Optional Accessories.....	19
Frequently Asked Questions.....	20-21
Troubleshooting.....	22
Basic Care and Maintenance.....	23
TOSHINAER Warranty.....	24-26
Notes.....	27
Contact Info.....	28

Important Safety Instructions

Electricity is used to perform many helpful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock or fire. To ensure your safety and prevent potential danger, please read the following precautions prior to using this product.

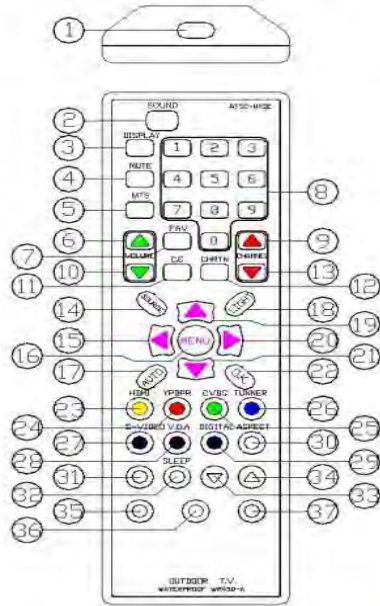
- Read these instructions.
- Heed all warnings.
- Do not use this TV near any heater.
- Do not modify or alter the polarized or grounding-type plug in any way, shape, or form.
- Protect the power cord from being walked on or pinched, especially at the plug.
- Only use attachments/accessories specified and/or provided by TOSHINAER.
- This TV should be operated only from the type of power source indicated on the manual/marketing label.
- Never push objects of any kind into this product through openings

Supplied Accessories

- TOSHINAERTV
- Remote Control
- Operation Manual

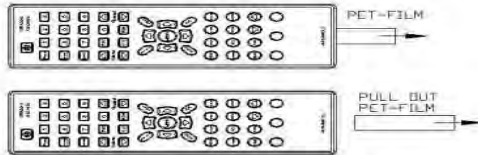
*NOTE: No stand/mount is included with your TOSHINAER TV. Contact a TOSHINAER Dealer for a mounting solution.

Waterproof Remote Control Unit WR450-A

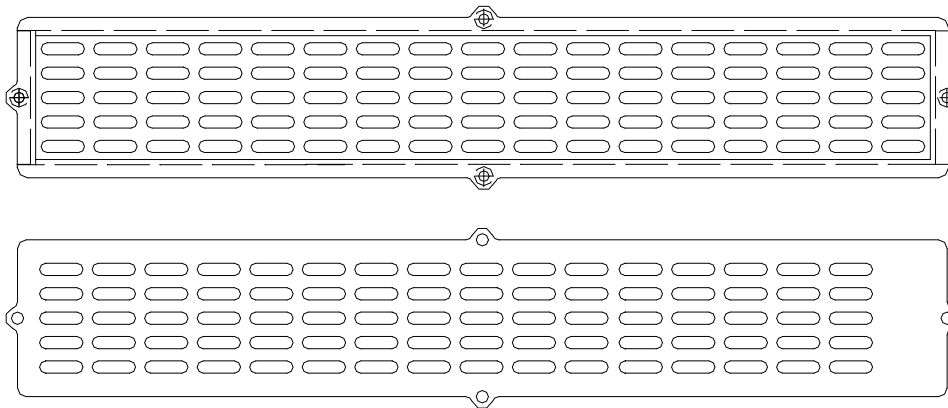
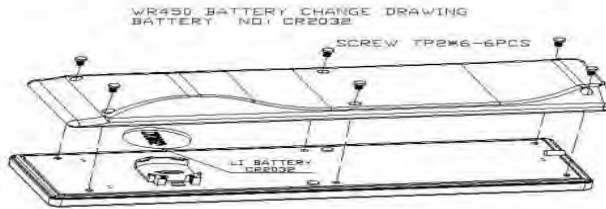


1	REMOTE SENSOR	21	▼ DOWN KEY
2	SOUND	22	O.K BUTTON
3	DISPLAY INFORMATION	23	HDMI FUNCTION BUTTON
4	MUTE ON/OFF	24	YPBPR FUNCTION BUTTON
5	MTS BUTTON	25	CVBS FUNCTION BUTTON
6	▲ VOLUME UP BUTTON	26	TUNNER FUNCTION BUTTON
7	FAV CHANNEL SETING	27	S-VIDEO BUTTON
8	CHANNEL NO. 0-9	28	VGA BUTTON
9	CHANNEL UP	29	DIGITAL BUTTON
10	▽ VOLUME DOWN BUTTON	30	ASPECT BUTTON
11	G.C KEY	31	SLEEP BUTTON
12	CHANNEL RETURN	32	SLEEP BUTTON
13	CHANNEL DOWN	33	
14	SOURCE INPUT	34	
15	◀ LEFT KEY	35	POWER ON
16	MENU / ENTER	36	POWER OFF
17	AUTO FUNCTION	37	POWER OFF
18	LIGHT FUNCTION		
19	▲ UP KEY		
20	▶ RIGHT KEY		

"FOR THE FIRST TIME TO USE THIS REMOTE CONTROL, PLEASE PULL OUT THE PET FILM."



WHEN THE BATTERY CHANGE, PLEASE FOLLOW THE DRAWING TO PULL OUT THE SCREW



PLEASE CLEAN THE AIR FILTERS EVERY 6 MONTHS. ON THE BOTTOM OF THE HOUSING YOU WILL FIND THE FILTERS. SIMPLY UNSCREW THE TWO SCREWS AND WASH THE FILTERS WITH WARM WATER. ALLOW TO DRY BEFORE REPLACING.

DO NOT USE SOLVENTS OR ANY OTHER CLEANING SOLUTION TO CLEAN THE AIR FILTERS.

TOSHINAER Key Features

- *IP 65 Rating* : Guards against dust and strong jets of water.
- *Anti-Reflective Glass*: Helps reduce glare and reflection for easy viewing in direct sunlight as well as protect the LCD from being damaged by sunlight.
- *Tempered Glass* : For added security.
- *Sealing Gasket* : Additional protection against water and dust ingress.
- *Marine Speakers* : Can be sprayed directly without any issue.
- *Rear IR Sensor*: Used for control systems with IR emitters
- *Auto Brightness Photocell* : Allows for the television to brighten or dim depending on the brightness levels in the surrounding environment.
- *Touch Button Panel* : Secondary way of changing channels, volume, and settings.
- *Powder-coated Aluminum Chassis* : Light-weight, durable, and resistant to rust.
- *High-brightness Panel* : Allows for viewing during the day.
- *Resolution*: N42 /N52 /N60LED
1920x1080
- *Ventilation/Cooling System* : Helps to regulate the internal temperature, thus keeping the viewing conditions in an optimal state.
- *Protective Coating on Electrical Components* : This proprietary coating covers the chip board and thus helps to protect the internal components of it against accidental water ingress as well as extreme cold.
- *Filter System* : Prevents the ingress of dust as well as water vapor.
- *Internal Thermostat* : Activates the cooling system at 104 degrees and shuts down at 86 degrees F as long as the TV is plugged in (regardless of whether TV is turned on or off).
- *VESA Standard Mounting System* : enables the consumer to use any VESA standard mount that they choose.
- *Recessed and Covered Inputs* : engineered to keep inputs dry.
- *Chassis Engineered Specifically to protect against All-Weather.*

TOSHINAER Key Functions and Support

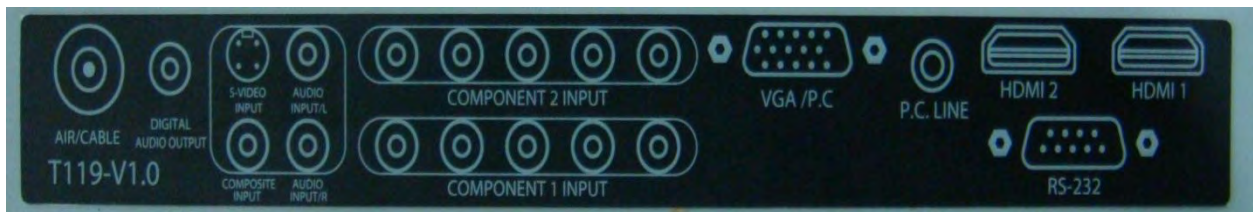
- AC Power Input: AC 100~240V 50~60Hz
- Standard Definition / High Definition Signal Capabilities
 - Composite interface can support 480i
 - S-Video interface can support 480i
 - Tuner interface can support 480i, 480p, 720p, and 1080i. All ATSC Modes
 - Component interfaces can support 480i, 480p, 720p, 1080i, and 1080p
 - HDMI interface can support 480i, 480p, 720p, 1080i, 1080p and DVI input resolution
 - VGA interface can support VESA standard
- VGA DPMS function supported
- Preferred digital audio channel selection
- Brightness, contrast, color, tint, sharpness, and color temperature control
- 3D COMB filter support
- 3:2 Pull Down
- Stretch of 4:3 to 16:9 aspect ratio
- Internal speaker: 10W @ 8 ohms X 2
- Multi-language supported for OSD: English, Spanish, French
- Program channel auto scan / manual settings
- Automatically detect digital or analog signal without user prompting
- Video source selection
- Parental control (TV rating and MPAA rating) for USA and Canada
- Open V-Chip / Dynamic rating feature supported
- Closed-caption support (CEA608B and CEA708B)
- Sound output volume control
- Analog Audio MTS (BTSC) supported (SAP supported)
- Full function remote control
- Sleep Timer (up to 240 minutes)
- Color Temperature Modes: Cool, Warm and Normal
- VGA / DVI Supported Modes (VESA Standard Mode Only):

Resolution	fV (Hz)
1024 x 768	60
1280 x 768	60
1280 x 1024	60
1366 x 768	60
1920 x 1080	60
1920 x 1200	60

Getting Started

With your New TOSHINAER TV

1. Input and Output Interfaces



2. Side Button Controls



Vol Down, Vol Up, Chan Down, Chan Up, Source, Menu, Power

3. Connecting the TV

- NOTE: The TOSHINAER TV may take up to 10 seconds to start up.
- There are various ways of setting up the TOSHINAER Outdoor weatherproof TV. Make sure that the power is off while connecting any cables/wires.

Tuner (Coaxial Cable)

- Connect the coaxial RF cable from your cable box or antenna to the Tuner port in the back of the TV.
- Turn on the TV.
- Select the Tuner source using either the remote control or the side button controls.
- Using the on-screen display, perform a channel scan.
- NOTE: Using this input source, the TV will receive any standard- or high-definition, over-the-air channels.
- This input accepts the following formats: NTSC, ATSC-VSB, QAM64 and QAM256.
- A 3D-COMB filter is applied when the TV is detected in NTSC mode.

- Brightness, contrast, color, tint, sharpness, and color temperature are controlled in analog NTSC and digital mode separately.
- The TV will automatically detect NTSC, VSB, QAM64, and QAM256 modes.

Composite (Red, white, & yellow cables)

- Connect the composite (yellow, red, and white) cables from any source with corresponding outputs to your TOSHINAER TV composite RCA ports on the rear of the unit.
- Turn on the TV.
- Select the composite source using either the remote control or the side button controls.
- RCA jack (yellow) accepts composite video input format.
- 2 RCA jacks (color-coded: white and red) accept Audio L/R input.
- 3D-COMB filter applied.
- Brightness, Contrast, Color, Tint, Sharpness, and Color Temperature control.
- *May utilize either Composite or S-Video inputs, but not both simultaneously

S-Video (S-Video Cable + Red & White cables)

- Connect S-Video cable from any source with a corresponding output to you TOSHINAER TV's S - Video port on the rear of the unit.
- Connect the Red and white RCA cables from the source to your TOSHINAER TV red and white audio ports within the S-Video bay.
- Turn on the TV.
- Select the S-Video source using either the remote control or the side button controls.
- S-Video jack accepts Y-C video input format.
- 2 RCA jacks (color-coded: white and red) accept Audio L/R input.
- Brightness, Contrast, Color, Tint, Sharpness, and Color Temperature control.
- *May utilize either Composite or S-Video inputs, but not both simultaneously

Component 1/Component 2 (Red, Green, & Blue cables + Red & White cables)

- Connect the component (red, green, and blue) RCA cables from any source with corresponding outputs to your TOSHINAER TV's component ports on the rear of the unit.
- Connect the Red and white RCA cables from the source to your TOSHINAER TV red and white audio ports within the Component bay. - Turn on the TV.
- Select the Component source using either the remote control or the side button controls.
- 3 RCA jacks (color-coded: green, blue, and red) accept 480i, 480p, 720p, and 1080i input formats.
- 2 RCA jacks (color-coded: white and red) accept Audio L/R input.
- Brightness, Contrast, Color, Tint, Sharpness, and Color Temperature control.
- Automatic black and white level adjustment.

HDMI 1/HDMI 2 (HDMI Cable)

- Connect the HDMI cable from any source with a corresponding output format to your TOSHINAER TV HDMI port in the rear of the unit.
- Turn on the TV.

- Select the HDMI source using either the remote control or the side button controls.
- NOTE: If “invalid format” displays on the screen, the source output needs to be changed. Consult the source manual for instructions on how to change the output format to 1080i (recommended) or 720p as the maximum output resolution.
- HDMI type-A jack accepts HDMI (480i, 480p, 720p, 1080i, & 1080p input format) input or DVI (PC mode) input. HDMI input mode will support 480i, 480p, 720p, 1080i, & 1080p modes at a minimum.
- When in PC mode, Auto-Sync without cropping, all resolutions (depends on VESA standard and up to 1920 x 1200), all vertical refresh rates (from 56Hz to 75Hz).
- The preferred resolution and timing would be 1360 x 768 @ 60Hz. Other resolutions would do scaling to fit the whole video onto the whole screen or keep the aspect ratio when in PC mode.
- PC inputs (both VGA and DVI) should be displayed either 1:1 mode centered on the screen, scaled to either full height or full width of the screen with aspect ratio preserved, or scaled to fill the full screen with aspect ratio not preserved. In all cases, there should be no over-expansion of PC modes.
- Brightness, Contrast, Color, Tint, Sharpness, and Color Temperature control.

VGA (15-pin D-sub VGA cable + red & white RCA cables)

- NOTE: Be sure that both TV and Computer are in off mode when cables are connected.
- Connect a 15-pin D-Sub VGA cable (not provided) from the VGA output port of your PC to the VGA input in the TV
- Connect the red and white RCA cables to your PC's audio out ports and to the VGA/audio ports
- Turn on your TOSHINAER TV.
- Turn on your PC.
- Using either the remote control or the side button controls, select the VGA source.
- NOTE: If there is no picture, refer to your PC's settings and use the preferred resolution at 1360 x 768 @ 60Hz.
- 15-pin D-SUB jack accepts VGA signal input or color component (480i, 480p, 720p, 1080i input format) input.
- OSD can switch to VGA input mode or color component input mode.
- Select VGA signal input, Auto-Sync without cropping, all resolutions (depends on VESA standard and up to 1280 x 1024), all vertical refresh rates (from 56Hz to 75Hz).
- Auto-Sync functions with DMT, GTF, CV, and CV RB timings.
- The system cannot be table driven.
- The preferred resolution and timing are 1360x768 @ 60Hz. Other resolutions will scale to fit the whole video onto the whole screen or keep the aspect ratio when in PC mode.
- PC inputs (both VGA and DVI) should be displayed either 1:1 mode centered on the screen, scaled to either full height or full width of the screen with aspect ratio preserved, or scaled to fill the full screen with aspect ratio not preserved. In all cases there should be no over-expansion of PC Modes.
- Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control.

RS-232

This is the commercial control COM Port and is only used in commercial applications.

4. Outputs: Audio Only

* There are three outputs to send audio from the TOSHINAER TV to another source

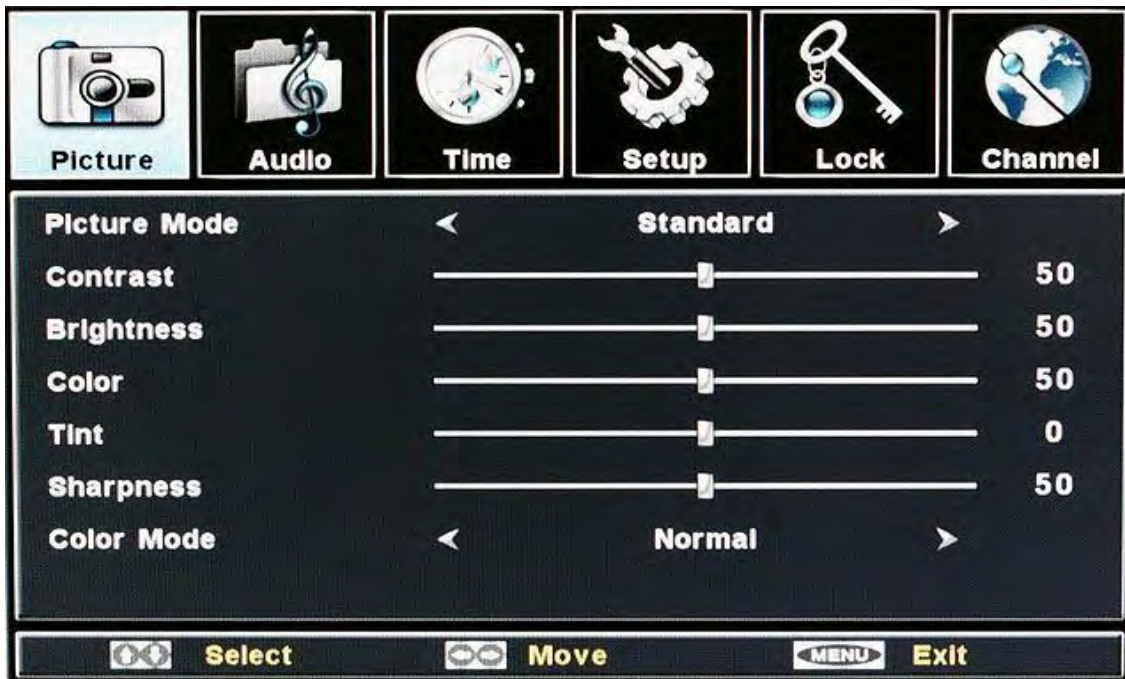
Fiber Optic Out – Connect orange RCA cable from the back of the TV to any audio receiver

Digital Audio Out – Connect orange RCA cable from the back of the TV to any audio receiver

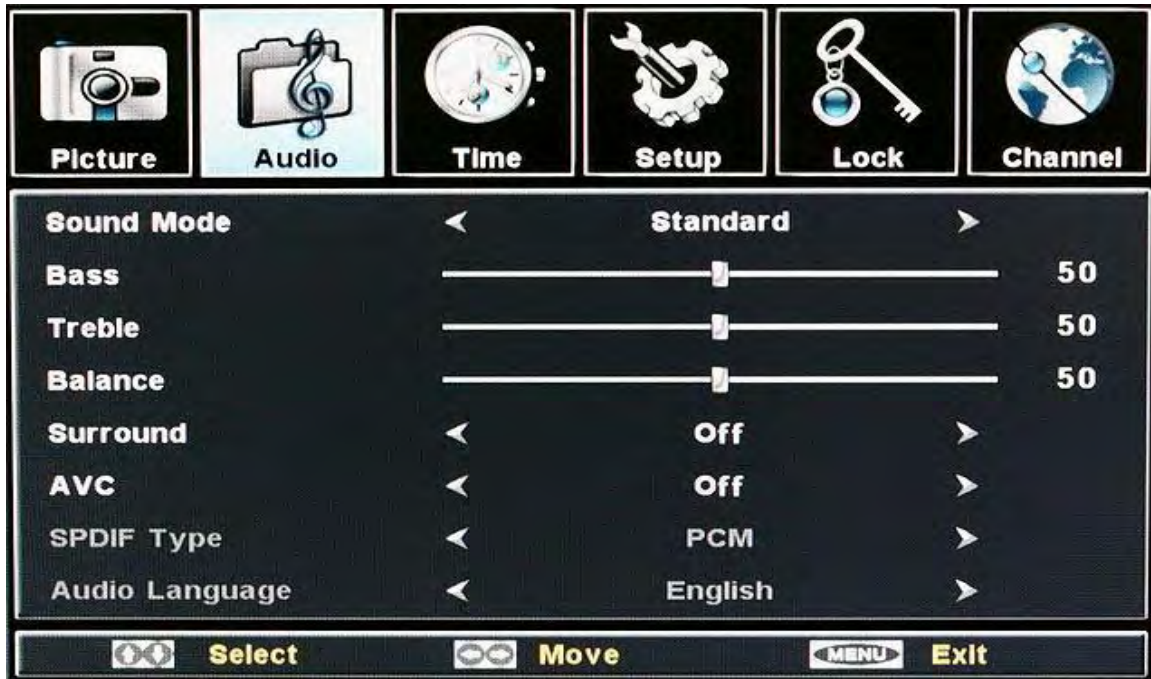
Speakers Out – Connect speaker wire from speaker jacks on rear of TV to any speakers with available speaker wire inputs. TOSHINAER TV speaker output is 10 watt X 2.

*NOTE: Sound may be distorted if using high wattage speakers. It is recommended that an amplifier be used in such cases.

On-Screen Display (OSD) Operations



Picture	
Option	Description
Picture mode Settings	Adjust the picture setting : Standard/Dynamic/Personal
Contrast Setting	Select the Contrast 0~100.
Brightness Setting	Select the Brightness 0~100.
Color Setting	Select the Color 0~100.
Tint Setting	Setting the display -50~+50.
Sharpness Setting	Setting the Sharpness 0~100.
Color Mode	Adjust the Color Setting : Normal/Warm/Cool



Audio		
<i>Option</i>		<i>Description</i>
Sound Mode		Setting the Audio mode: Standard/Music/Movie/Personal
Bass	Setting	Select the bass setting 0~100.
Treble	Setting	Select the treble setting 0~100.
Balance	Setting	Select the balance L/R 0~100.
Surround	Setting	Setting the Surround off / on.
AVC	Setting	Setting the AVC off / on.
SPDF Type		Setting the SPDF - PCM / RAW



Time	
Option	Description
Sleep timer	Adjust the Sleep Time : Off / 5min ~240min
Time Zone Setting	Pacific/Alaska/Hawaii/Eastern/Central/Mountain
Daylight Saving Time	Select the Daylight Savings off /on
Clock Setting	Auto Clock settings. Clock will automatically set when Tuner cable is detected.



Setup	
<i>Option</i>	<i>Description</i>
Menu Language	English / French / Spanish
Transparency setting	Select the Menu Trasperency on/off
Zoom Mode Setting	Normal/Wide/Zoom/Cinema
Noise Reduction	Off /Weak/Middle /Strong
Closed Caption Setting	CC mode - on/off /CC on mute
Misc Setup Setting	XVS on/off. Audio on/off
Restore Default	Reset to default Value form Factory setup



Setup-Closed Caption Options	
Option	Description
Closed Caption Mode	on/off
Advanced Selection	Select from Service options 1-6
Option	Set to Default/Custom. Custom setting allows for text and color settings for Closed Captions



Setup for Closed Captioning, select for on/off or placement of text



Set your own password and use this password to lock your TV.
Factory default code is: 0000



Channel- For use with Cable/Antenna setup

<i>Option</i>	<i>Description</i>
Air / Cable Settings	Select if using Antenna / Cable
Auto Scan Setting	Select the Cable system Auto/STD/IRC/HRC
Favorite Setting	Select to set Favorites
Show Hide Setting	Select to show/hide channel from list of channels



Select the input that you would like to use by pressing the Source key. Use the up/down cursors to highlight the input source and then press OK.

Optional Accessories

WR-3015- Wall Mount

For Models:(N42 /N52)

FAQs

1. Can I submerge my TV?

- No, our TVs are weather-proof, submersion is not covered in our warranty.

2. How can I secure my TV?

- There are various solutions for this ranging from wired alarm systems, to TOSHINAER locking screws

3. Can I put my TV in direct Sunlight?

- No, your TV was not designed to withstand direct sunlight. For the most optimal conditions, you would want to have it facing away from the sun, but it can take limited indirect exposure.

4. Can my TV handle rain, snow etc?

- Yes, your TOSHINAER TV is designed to be left outdoors year round. We do however recommend a TOSHINAER TV Cover, for aesthetic reasons, to keep the TV clean and free from water spots.

5. How can I get the best picture quality on my television?

- We recommend using high quality HDMI cords connected to a high definition source to fully capture all of your TOSHINAER TV's capabilities.

6. Do the fans always stay on?

- Yes and no. Your TOSHINAER TV has two separate sets of fans. One quieter set will run whenever your television is turned on. The secondary set will turn on if the temperature of the TV exceeds what we feel is an optimal temperature range. Once your TV cools back down, the secondary fans will turn off.

7. Is the remote water proof?

- Yes, your remote is fully waterproof and floats.

8. What can I use to clean the TV?

- Glass: Any mild household glass cleaner can be used on the screen with a non abrasive cloth. If using a cleaner for the first time, we suggest a test spot in a corner.
- Filters: Only use warm water. Do not use chemicals of any sort. Allow to dry before reinstalling.
- Body: Mild household cleaners. If you have never used a cleaner before, test a small area in the back of the TV before cleaning the entire surface. Make sure to keep off of the glass while cleaning.

Trouble Shooting

No/Distorted Picture:

1. Make sure your TV's power cord is plugged in correctly.
2. Make sure your TV's power is turned on.
3. Make sure your sources cords are plugged in correctly.
4. Make sure your TV is set to the corresponding input that is plugged into the TV.

No Audio

1. Make sure the source wires are properly plugged in.
2. Make sure the source wires are in the correct colored inputs i.e. yellow with yellow etc
3. Make sure you televisions volume is up and not on mute.
4. Make sure you have a digital tuner signal above 60%

Dark Picture

1. Change the light or picture setting
2. Make sure your photo cell (located on the back/top of TV) is not covered.

Remote Does Not Function

1. Check to see you have removed the P.E.T film.
2. Make sure the batteries are charged and installed in the correct orientation.

No Color

1. Make sure the digital tuner signal is above 60%.
2. Reset your TVs color settings.

No Signal Box on Screen

1. Make sure your source has power.
2. Make sure that the cords are plugged in correctly into your sources output.
3. Make sure that the sources cords are plugged in correctly to your TV.
4. Make sure your TV's source button corresponds to what is plugged into the TV.

Channels are blocked

1. Check your parental settings to ensure the specified channel is not blocked.

The TV does not immediately turn on

1. LCD televisions require more time to turn on than a traditional tube television.

Basic Care and Maintenance

The following tips are for you to increase the life and performance of your TOSHINAER TV. Please read and follow all of the basic care and maintenance instructions below.

- Depending on the environment you live in, the filters on the bottom of your TV should be washed every 6 months to keep airflow at an optimal point. If the environment you live in is very dusty, is near a wood burning fire pit (ash), in a heavily chlorinated atmosphere, very near to the ocean, or is close enough to a cooking area that heated oils and grease may get into the filters, you should wash the filters every 3 months. To wash your filters, simply remove the screws on the bottom of the TV securing the filter, wash using warm water, allow to dry and then reinstall.
- Do not use abrasive cleaners or scrubbers on your TOSHINAER TV. Most mild household cleaners will work on your TOSHINAER TV. If it is the first time you have used a cleaner, test a small patch on the back of your unit before using.
Household glass cleaner should be sufficient to clean the glass of your TOSHINAER TV.
- We also recommend a TOSHINAER dust cover to help keep your unit clean and prevent water spots while not in use.

TOSHINAER Warranty

N42 /N52 /N60LED

TWO YEAR PARTS/LABOR LIMITED WARRANTY

Conditions of the TOSHINAER Warranty: The TOSHINAER 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 under the terms and conditions of this warranty, TOSHINAER will repair or replace defective parts with new and/or reconditioned 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 residential or commercial use as follows:

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: Two (2) years from the date of the original purchase. During the applicable limited warranty period for labor, TOSHINAER will provide the labor for warranty repair at no charge for a period of two (2) years 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 TOSHINAER or an authorized service center.
5. Customer is responsible for returning (including any freight or shipping cost) the defective unit back to TOSHINAER or an authorized service center. If the product is found to have no defect, the customer will be responsible for return shipping as well.

THIS LIMITED WARRANTY DOES NOT COVER:

- Shipping damage.
- Damage caused during customer 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 TOSHI INAER.
- Any cosmetic damages to the surface or exterior that has been defaced or faded, or caused by normal wear and tear or exposure to chemicals, acid rain, large hail, or adverse weather conditions. Because the TV cabinet and components are hand assembled and altered, we do not cover minor cabinet blemishes or minor scratches to the exterior TV unit.
- Picture quality when installed with “direct sun” pointing towards or directly onto the front LCD screen.
- Any damage, scratches, or blemishes to the LCD screen and/or exterior cabinet due to end user cleaning.
- Dirty Airwaves, and/or unusual signal interference due to weak signal from multi-wire runs or weak signal from cable or satellite company.
- Return shipping when no defect is found.

TOSHINAER 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 TOSHINAER. All other warranties, including the warranties of merchantability and fitness for a particular purpose, are hereby disclaimed by TOSHINAER 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 TOSHINAER or its authorized service representative.

WARRANTY PROCEDURES

- Contact us by phone at (714) 702-5966 or fax at (714) 702-5966 and 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 call and speak with our tech support before shipping the unit, or the shipment will be denied.
- You must return the product to us in its original or equivalent packaging. (Our original factory packaging is available to purchase at \$55.00 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 return shipping address.
- We will make repairs or replace the product with a new or reconditioned set, as stated in the Limited Warranty and return it to you (freight free within the United States) via UPS, FedEx ground service, or YRC.
- 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.

- This warranty is non-transferable.
- If a television is sent in under warranty and no defect is found, the customer will be charged for return shipping.

NOTE: We must receive the defective TV unit back, before any replacement will be issued.

Notes

TOSHINAER

PH: (714) 702-5966 / FAX: (714) 702-5966