

Owner's Manual for Mobile TV

KF-2289T

Before using

- . Before using this product, read this manual well and manipulate it properly
- . Keep this manual well and read it whenever you need.

※ Notice : Design and specifications of this product may be changed without a prior notice for development of the product.

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1. Notes for Safety

The followings are musts to abide by in order to prevent a user or other from physical or financial damage.

- When using wrongly with neglecting designated order, the extent of danger and damage is stipulated by following indications.

Warning

“ Warns the possibility of heavy injury or death.”

Notice

“ Likely to be injured or damaged physically ”

Prohibition

“ Must not ”

Compulsion

“ Do it necessarily ”

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1. Notes for Safety

Warning

Prohibition

1. While driving, do not operate it.

It may be the origin cause of an accident. Do operate it at a safe place.

2. While driving, do not watch TV or video.

If you watch TV or video while driving, it may be the reason of the accident.

3. At a trouble or abnormal state, do not use it.

If you use it at no sound or smoking or strange smell, this can be the origin cause of a fire. In this case, stop using it immediately and consult with a sales shop where you bought it.

4. Do not have your eyes or face closed to the pole of an antenna.

This may be the origin cause of getting hurt.

5. In case of vehicles equipped with Air-Bag, place and stick the mobile TV to the place where the Air-Bag does not collide with it at Air-Bag working.

This may enable a driver or passengers to be wounded by collision between the Air-Bag and the TV.

6. In case that you stick the TV with a two sided tape, wash an adhesive side cleanly and stick it.

Dust and water on the surface can make an adhesive strength weakened and it may be the origin cause of detachment.

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1. Notes for Safety

Warning Disassembling Prohibited

1. Do not disassemble or modify it.

This may be the origin cause of an accident like a trouble or a fire.

Notice Prohibition

1. Do not drop it or give a strong impact on it.

This may be the origin cause of a trouble or a fire.

2. Do not watch TV for a long time as engine stops.

A vehicle doesn't start due to the discharge of a battery

3. Do not vend the pole of an antenna with its bottom side grabbed by a hand to adjust an angle.

4. Do not charge a battery, disassemble it or heat it or put it close to fire.

This may be the origin cause of a explosion or a leakage.

5. Put a glass washer on out of children's reach.

If it goes into eyes, wash them cleanly and consult with a doctor.

6. Do not use for many hours at a low or a high temperature.

This product is made to fit vehicle environment. But, in case that it is exposed to the direct rays of the sun for a long time, the product life can be shorten or that may be the origin cause of a trouble.

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7. Do not get it wet.

If you wash on the surface of LCD with a glass cleanser, water is likely to go inside the main set and this can be the origin cause of a trouble.

Notice Compulsion

1. Do not touch an antenna line or TV when lightning.

This may be the origin cause of an electric shock.

2. In case that cable passes through a hole or touches a metal part, do protect it necessarily.

3. Keep a battery out of children's reach.

If a child swallows it, consult with a doctor right away.

4. While driving, keep a sound volume at a proper level.

If you drive without hearing from outside or around, this may be the origin cause of an accident.

5. Do ask a special technician to install it.

Skilled technique and experience are required to install and wire. Therefore, ask a sales shop to do those kinds of works for a safety.

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2. Main Features

Our Mobile TV is designed to fit the environment of vehicles. TV for the vehicles is equipped with special circuit inside the product to provide good quality of the field and the sound differently from general TV for home use.

① Field Low Refection and High Definition LCD

LCD for the product is 7inch TFT Wide LCD with 112,320 pixels due to which it can provide high definition of screen quality. Also, it has a structure of pixel disposition suitable to watch screen for Navigation.

Forced Synchronization Circuit

The circuit is equipped inside for providing a safe screen while moving, by minimizing its shaking in every direction.

② Sound Sound Conversion Function

Its own speaker with max.1W of output power is equipped inside.

FM Transmitting Function

You can listen to TV sound through the inner speaker of the vehicle by converting from TV sound to FM frequency which a car stereo radio can receives. So, you can adjust volume and tone quality in the same way as of general broadcasting. Also, it selects the frequency which has no jamming among total 30 frequencies.

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Noise Canceller Circuit

The Noise Canceller Circuit is equipped inside to get rid of the noises that can arise from the vehicle.

③ Outside Input Function

RGB Resolution Function

This is the function to directly input Car Navigation.

It is our special function that no other product has in any mono type of mobile TV over the world.

Outside Audio/Video Input Function

This has a function to connect with Audio/Video.

Channel Diversity Input Function

TV for vehicles basically is difficult to receive an electric wave well due to its own bad environment. For this reason, the TV needs to receive it well regardless of directions even while moving.

Our product has the Diversity Input Function that selects an antenna with best receiving sensitivity.

(Page 7) 2. Main Features

④ Convenience Function

Dimmer Function

According to the brightness of surrounding, that of the screen can be adjusted.

Max. 100 Channels Memory

This product can directly receive CATV as well as TV and automatically memorize max. 69 channels for Air TV and max. 100 channels for CATV.

Remote Controller

You can operate TV easily by controlling all the functions with it.

Auto Search Function

In case that you push Search button, it can automatically sense a broadcasting station possible for receiving and memorize the station. Through this function, you can select your preferable station simply.

Cable TV

At home, you can watch Cable TV of 124 channels without any Converter.

Pull-Down Menu

Since all the functions display in one screen, it is convenient for a user to operate.

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3. Installation

■ Before Installing

At Low Temperature (20 °C or less)

After you turn on a heater and its air gets warm, install the Mobile TV. (To enhance adhesive strength)

At a lot Humidity (Fog, Rain and so on)

After making adhesive side dried with a dryer, install the Mobile TV.

After Sticking

Within 24 hours, don't pull Monitor stand or install Monitor. (It is likely to detach due to adhesive strength getting weaken)

(Page 9) 3. Installation

① Installation Order for STAND

- 1) Decide a place for installation and form STAND by bending its adhesive side according to the shape of the place.
- 2) You must wash the adhesive side cleanly with a neutral detergent or alcohol.
- 3) Remove the cover of a both sides tape from the adhesive of the Stand and install it.

Notice . If the temperature of an adhesive side is low (20°C or less), the adhesive strength of a double side tape may be weaken. In this case, stick it after its being heated.

- 4) Drive a screw as attached with the product.

Notice . After screwing, check and take notice in order not to do damage to wire of dashboard inside or equipment.

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- 5) Attach a Stand Cover.
- 6) After you put a Stand screw into a hole placed on the back side of Monitor unit, adjust installation height and angle.

Notice . Do adjust the height of the bottom side to reach a dashboard in order to prevent trembling by the vibration of a vehicle.

After adjusting the height, surely screw to fix it.

While driving, this may be the origin cause of an accident by its

bolting.

Treatment of Monitor Cable

Importance . If the installation of Monitor and the connection of Cable is finished, put the Cable in a good order not to disturb a safe driving.

- . Pay attention to the Cable not being caught in the rail of a door or a seat. The Cable may be cut by its getting caught in.
- . Because it is very dangerous for the cable to be rolled up by a shift lever, arrange it well with a cable clamp.

(Page 11) 3. Installation

② Installation of Remote Controller

With a magic tape, adhere a remote controller into a remote controller bag on a place not to disturb your driving.

Importance . Make the surface as clean as possible, where will be attached in a tape.

- . As shown on the figure as an example, this explains how to attach in a tape by the shift lever.

③ Installation of Monitor Unit

Importance . The monitor unit of this product is designed as taking a serious view of safety.

- . Unless you surely attach it at a safe place, this may be the origin cause of an accident and be very dangerous.
- . When you decide a place for attachment, check following notices necessarily.

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- . Adhere it on a place not to disturb the operation of air bag system of the front side seat.

Importance . Do not install the place where it disturbs front sight and the operating of steering, transmission shift lever, brake pedal and making other passengers risky. This may be the origin cause of an accident or an injury.

As shown on the above, attach it on a safe place where it does not disturb front sight or you don't have to move your eyes.

Notice . Do not install it at a place where it is open at a extremely high or low temperature. This may made the monitor unit transformed or be the origin cause of a trouble.

While parking, protect it against the direct rays of the sun by covering an enclosed monitor cover because a high temperature may effect it.

(Page 13) **3. Installation**

- . Do not attach on a place where the wind of air conditioner can directly reach the monitor unit.
- . Joint the handler or the lever of stand for installing monitor.
- . Do not attach at a place where it disturbs the opening of Globe Box.
- . Do not install it in case that the attached side is wooden panel or textile because it is likely to be damaged.

■ Reference

Height adjust screw

Stand

Fixed screw

Both Sided Tape

Dashboard

(Round type)

(Flat type)

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④ Connection of Outside Units

- ➔ Rear View Camera, DVD, Video Camera, LDP, Player and etc.
- ➔ Connect it with Cigar Jack.
Notice ! Use necessarily only for 12V vehicles. Don't use for large vehicles such as trucks.

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⑤ Connection of Safety Cable

You can watch TV only at parking gear for your safety while driving.

But, if you want to watch TV at home or at other places, cut Safety cord properly, peel it and then make a short circuit with ground line and signal line.

The cut part must be covered with tape.

(Page 16) 4. Name of each part

① Name of TV Main Parts

7 Inch Wide TFT LCD, Power Button, Remote Receiving Part, Power Part

7Inch wide TFT liquid color screen

Up button(Channel Up), Down button (Channel Down), Menu button, Mode button, Up button(Volume Up), Down button (Volume Down)

(Page 17) 4. Name of each part

② Name of Remote Controller

TV/AV button (for TV,AV mode selection), VOL ▲ button (Volume Down), VOL ▼ (Volume Up), SET button, AUTO/M button (Auto, Manual selection), FMT button (FM Transmitter set), DIMMER button (Adjustment of LCD brightness)

POWER button, CH ▲ button (Channel Up), CH ▼ button (Channel Down), SEARCH button (Channel Search), AREA button (Adjustment of Screen Size), MENU button

(Page 18) 5. Usage

Selection of Set/Adjust on the Menu

Display for the Menu is composed of Main Menu and Sub Menu. Refer to Help on the screen.

- ① If you press Menu button, the Menu displays.
- ② By pressing CH ▲ up, CH▼ down ,VOL ▲ ,VOL ▼, move to your wanted Menu
- ③ After pressing SET button, select for the set/adjust
SET/ADJUST screen displays for your selected item.
- ④ Make a Set/Adjust.
- ⑤ Press SET or MENU button for the end.

Menu, Selection (green), Sub-menu, Help

* () part displays the button of main part.

(Page 19) 5. Usage

Basic operation

STBY(green)

POWER(red)

Power ON/OFF . Connect the power with main system, green LED of STBY lights on.

- . Push Power ON/OFF button, the ON/OFF can be repeatedly executed
- . At the power ON, red LED of POWER lights on.

Mode change . Press TV/AV button.

- . Press the button, mode is changed.
- . In “ TV “ display mode, a channel number displays. Besides, AV1/AV2/RGB displays.

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TV mode

AV1 mode

RGB mode

AV2 mode

Notice

- . If power is supplied to the main system, it memorizes the previous status and makes ON/OFF automatically.
- . If you push “SET” button of the remote controller, it displays the status of current mode.
- . Unless mode display window does work for about 5 seconds, it disappear automatically.

(Page 21) 5. Usage

Display set-up

Thickness of Color

It adjusts the thickness of the display Initial Set : 15, Adjust Range : 0~30

Push the menu button.

1. Select “ COLOR “ set on DISP menu.
2. Press SET(MODE) button.
3. Adjust with pressing VOL button.
VOL \blacktriangleleft : Color of Display gets deeper.
VOL \triangleright : Color of Display gets lighter.
4. Press SET or MENU button for the end.

It displays adjust screen for the thickness of the color.

Notice

- . If you press SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you press Menu button, it ends.
- . Unless SET/ADJUST display does not work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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Display set-up

Tint of Color

It adjusts the Tint of Color Initial Set : 15, Adjust Range : 0 ~ 30

1. Select “TINT” set on the menu
2. Press SET(MODE) button.
3. Adjust with pressing VOL button.
VOL \blacktriangleleft : green color of the display gets deeper.
VOL \triangleright : red color of the display gets lighter.
4. Press SET or MENU button for the end

It displays adjust screen for the tint of color.

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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Display set-up

Contrast

It adjusts the brightness of the display. Initial set : 15, Adjust range : 0 ~ 30

1. Select “CONT” set on the menu.
2. Press SET(MODE) button.
3. Adjust with pressing VOL button.
VOL \blacktriangleleft : Display gets brighter.
VOL \triangleright : Display gets darker.
4. Press SET or MENU for the end.

It displays adjust screen for contrast.

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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Display set-up

Brightness

It adjusts the brightness of the display. Initial set : 15, Set range : 0 ~ 30

1. Select “BRIGHT” set on the menu.
2. Push SET(MODE) button.
3. Adjust with pressing VOL button.
VOL \blacktriangleleft : Display gets brighter.
VOL \triangleright : Display gets darker.
4. Press SET or MENU for the end.

It displays adjust screen for the brightness of the display.

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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5. Usage

Mode set

Ratio of Display

It adjusts the ratio of the display. Initial set : JUST

1. Select “AREA” on the menu.
2. Press SET(MODE) button.
3. Adjust with pressing CH button.
4. Press SET or MENU button for the end.

If you press AREA button once after once, the mode of JUST/WIDE/ZOOM/NORMAL is displayed in order.

It displays adjust screen for the ratio of the display.

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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Mode set

TV Mode

It selects Air TV or CATV.

1. Select “TV MODE” on the menu.
2. Press SET(MODE) button.
3. Adjust with pressing CH ▲ (UP) or CH ▼ (DOWN).
4. Press SET or MENU for the end.

It displays adjust screen for TV mode.

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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5. Usage

Mode set

Channel mode

It selects TV Channel Moving Mode.

Initial Set : Manual

CH Mode has two kinds.

- . AUTO CH MODE : at TV Channel moving, it moves to the memorized channel.

. MANUAL CH MODE : at TV Channel moving, it moves to other channel one by one. If you press AUTO/M button once after once, AUTO/MANUAL mode can be converted in turn. (refer to 4.2)

AUTO/MANUAL function is applicable only to TV Mode.

1. Select “CH MODE” on the menu. It displays adjust screen for CD Mode.
2. Press SET(MODE) button.
3. Adjust with pressing CH ▲ (UP) or CH ▼ (DOWN).

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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Convenience Function

AUTO Channel Search

At TV Mode, it memorize all the channels which can be broadcasted.

This can automatically search and save maximum 100 channels.

- . AIR TV Mode : it can memorize maximum 69 channels.
- . CABLE TV Mode : it can memorize maximum 100 channels.

1. Check whether TV Mode or not
2. Press “SEARCH” button on the remote controller.
If you press the menu button of the main set for over 1 second, it starts AUTO CHANNEL SEARCH.
3. If channel search is ended, it receives the first memorized channel.

Notice

- . If you want to cancel during Channel Search, press the button of CH ▲ (UP) or CH ▼ (DOWN).
- . At Air TV mode, you can search Ch 2 up to Ch 69.
- . At Cable TV mode, you can search Ch 2 up to Ch 125.

* () part displays the button of the main system.

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5. Usage

Function Set

FM Transmitter (FM Modulator)

This needs to be connected with FM radio.

You can listen to the voice of this TV or the voice of a Video (separately equipped) at FM Mode.

Set FM transmitter to the frequency which has no FM broadcasting, and set FM radio to the same frequency.

- . On/Off : Set On/Off of output power.
- . Frequency : Adjust the frequency to output. (Initial Set : OFF, Set Range : 89.0 ~ 91.9Mhz)
- 1. Select “FM Tx “ on “FUNC” menu.
- 2. Press SET(MODE) button.
- 3. Adjust with pressing CH Δ (UP) or CH ∇ (DOWN).

After pressing FMT button, you can adjust it with CH Δ (UP) or CH ∇ (DOWN).
(refer to 4.2)

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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Function Set

Dimmer Set

Set the brightness of Back Light (Initial Set : DIMMER OFF)

- 1. Select “ DIMMER “ on the menu.
- 2. Press SET(MODE) button.
- 3. Adjust with pressing CH Δ (UP) or CH ∇ (DOWN)
- 4. Press SET or MENU button for the end.

You can also make a DIMMER set by using DIMMER button of the remote

controller. (refer to 4.2)

Adjust screen for Dimmer set displays.

Notice

- . If you push SET(MODE) button, SET/ADJUST screen disappears.
- . At SET/ADJUST screen, if you push Menu button, it ends.
- . Unless SET/ADJUST screen do work for about 15 seconds, it disappears automatically.

* () part displays the button of the main system.

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5. Usage

Function Set

Safety Function

TV does not display while driving.

At change into TV Mode, AV1 or AV2 Mode, a warning message does display.

After you park a car at a safe place and make a parking brake, use this function.

- . While driving, Safety screen displays.

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6. Connection of Diversity

- . If you connect Diversity antenna with a connection port for Diversity, the TV can receive a clear screen.
- . The Diversity antenna is one of option items.
- . For details for the way of its connection, refer to a user manual for the Diversity antenna.

■ Reference

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6. Connection of Diversity

After installing and wiring,

Notice . After starting the car, check if all the electrical items do work properly such as Brake Lamp, Light, Horn and so on.

Before driving the car, check at all times if Monitor or other items are well equipped For your safe driving, you need to check such items at any time.

INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that 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 on, the user is encouraged to try to correct the interference by one more of the following measures:

- .. Reorient or relocate the receiving antenna.
- .. Increase the separation between the equipment and receiver.
- .. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- .. Consult the dealer or an experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user' s authority to operate the equipment.