

Operation Manual

Wireless Waterproof LCD TV



ASV1743 BW



ASV1743 SW



Catalogue

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- II. **Specification**
- III. **Safety Guide**
- IV. **List of Package and Installation**
- V. **Wires Connection**
- VI. **Panel Key Functions**
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- VIII. **Wireless Trouble-shooting**



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I. Brief introduction to the product.

AquaSound does not assume any liability beyond the application or use of any products, or software described herein. AquaSound further reserves the right to make changes in any products described herein without notice. This publication is subject to change without notice.

Trademarks

The Wireless Display is integrated with a transmitter and receiver to realize connection of different A/V sources to the LCD Display using 802.11a/b/g wireless technology. It can be used such to connect (view) cable and Broadcast TV, DVD players, VCRs, PVRs and cameras for remote viewing.

The monitor must be within approximately 100 feet (30 meters) of the base station to send and receive transmissions clearly.

At home, it is best to set up the base station in a central location, allowing more even distribution of the wireless signal to all parts of the house.

The transmitter compresses audio and video signals into MPEG2 streaming format and the receiver (built into the monitor), decodes the data and then transports these signal to the Display.

There are two A/V (DVD) inputs, one S-Video (CCD camera or other S-Video output device) input and one RF (TV or other) TV tuner input. The Wireless Display uses a 17" LCD TV panel. The key features of the panel include a 16:10 wide screen aspect ratio, 1440 x 900 high resolution. The product has passed IPX6 waterproof grade.

Power Management

- 1 Do not operate the monitor or transmitter box with any unspecified power supply. Use of incorrect voltage will cause malfunction and may cause fire or electric shock.
- 2 Within warranty period, if switching power adapter fails, contact distributor or after-sales department. When products falls out of warrantee period, users could still contact, consult or ask mending at the distributor or service centre but service could be charged due to relevant part of service cost.
- 3 The transmitter box: Uses a switching adapter rated at 100V ~ 240V AC 50/60Hz, the output power is 7.5V DC and 2A.
- 4 The monitor: Uses a switching adapter rated at 100V ~ 240V AC 47/63Hz, the output power is 12V DC and 5A.

FCC illustration:

This Wireless Display has been tested to comply with FCC standards

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This computer equipment generates, uses, and can radiate radiofrequency energy. If it is not installed and used properly, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

What is 802.11 a/b/g?

This Wireless Display uses IEEE's general 2.4 GHz 802.11b/g, and 5 GHz 802.11a, two kinds of frequencies used for wireless LAN specifications. The Wireless Display can automatically select the most appropriate frequency to use. Using advanced compression technology, it has a 11 ~ 54 Mbps capacity to constantly transfer and receive high quality video content.

This Wireless Display automatically switches the transmission frequency and searches for the best receiving frequency (using 2.4 GHz and the 5 GHz frequency). Channels 01 ~ 11 use 802.11b/g, Channels 36 ~ 157 use 802.11a.

This Wireless Display is integrated with a transmitter and receiver. It is used to connect different A/V sources to the LCD Display monitor using 802.11a/b/g wireless technology. It can be used to connect (view) cable and Broadcast TV, DVD players, VCRs, PVRs and cameras for remote viewing.

II. Specification

Model	ASV 1743 BW / ASV 1743 SW
Screen size	17 Inch
Aspect ratio	16:9
Screen brightness	385cd/ m ²
Contrast ratio:	400:1
Pixel H x V:	1440*900
Response time:	16ms
Speaker (built-in)	5W*2 frequency range:400~20KHz
Waterproof grade:	IPX6
Power consumption	DC12V/45W
Dimension: (mm)	472mm*315mm*65mm
Visiua/window: (mm)	367.3mm(H)*229.6mm(V)
Power consumption	AC100~240V-DC12V/5A
Features	<ul style="list-style-type: none"> -No X ray radiation, compliant with environmental needs -Waterproof grade meet IPX6 (Dust-tight and protected from moisture challenges up to powerful water jet -Wall-mounted or on bathtub or kitchen fixed -Induction touch key control on main set with alluminous key -Full function remote control
Net weight	5000g

Transmitter box:

Items:	Description
TV system	* PAL-BG. DK. I * NTSC-M * SECAM-BG. * SECAM-L.LL
AV Input	RGB AV*1, Mini AV*1,S-Video*1
LAN Connector	RJ-45
Wireless signal	WiFi 802.11a/b/g
Power adaptor	AC100~240V-DC7.5V 2A
Dimension of product (cm)	237x173x42
Weight	650g

(Specifications are subject to change without notice)

III. Safety Guide

General Cautions:

- Designation and production of this LCD TV series meet international safety standard. User should read manual carefully before using the product, and follow instructions of the manual to ensure correct usage.
- Any of the following cases happen; user should stop using the product:
Smoking, burning smell, no image, no sound, big sound, damage of outer housing, liquor or objects entering into product, or other irregular condition that might cause fire or electronic shock. Once any above case happens, please cut power immediately, then pull out plug from socket. After confirmation of no smoking or no peculiar smell, please contact seller. Do not try to fix it by yourself, otherwise, it is dangerous.
- Please use power source supplied by us. Wrong power source might cause fire or get electrocuted. Check TV power source to make sure it is in compliant with local power supply.
- Alternative current socket and wire can not be over-loaded; otherwise, it will cause fire or get electrocuted. Avoid objects pressing and tangling power wire.
- Do not put this TV upside-down or side-up, which may cause dis-function of the TV.
- Unplug power socket before clearing the product. Using soft cloth dipped with neutral detergent. Do not use coarse or abrasive detergent to clear the product.
- Unplug power source instead of switching off product only with remote control, when under thunder or when you may not use the product for a long time.
- Keep good ventilation around the product and do not jam or cover ventilation hole. Do not place the product on sofa, carpet, or other similar objects. Bad ventilation causes product over-heated and shortens service life.
- Connection all wires and sockets under the condition of power turn-off.
- Intervals between turning on / off should not less than 3 seconds.
- The product has state memory, i.e, it can keep former state at sudden power-off. (If former state is working condition, it will keep its working condition.)
- As it is heavy, so be careful with product transport. Try using original package to move the product. Do not turn over TV to move it. That might cause damage screen panel, or fluorescent light.

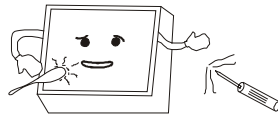
Cautions On Installation:

For safety, please use devices and follow instructions provided by manufacturer for installation.

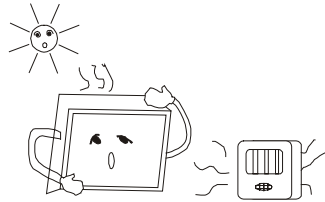
Don't apply excessive force on forward part or top to avoid turn-over of the product.

Cautions On Operations

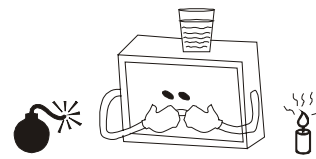
1. Do not dismantle/remodel the TV and do not press or knock LCD screen.
2. Do not put the product under direct sunlight or near heat tank, heater.
3. Do not put flammable, explosive material near it.
4. Keep it away from magnetic field and radio generator such as mobile phone.
5. Avoid working condition of abrupt temperature change.



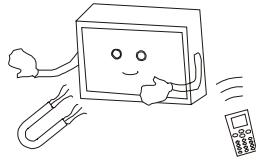
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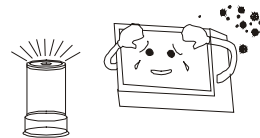
- Do not put the product under direct sunlight or near heat tank heater.



- Do not put flammable, explosive material near it.



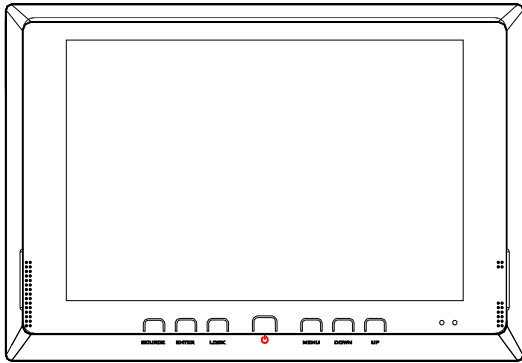
- Keep it away from magnetic field and radio generator such as mobile phone.



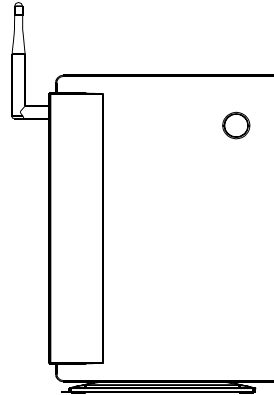
- Avoid working condition of abrupt temperature change

III. List of Package and Installation:

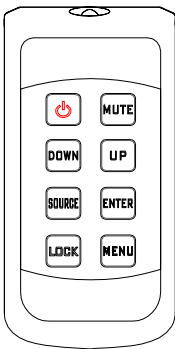
Please find following parts in the package.



Wireless TV set



Transmitter



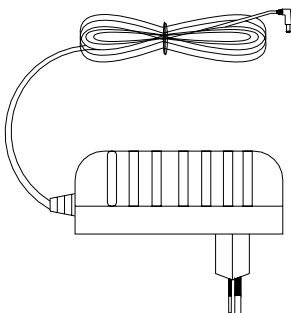
Remote controller



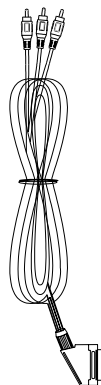
Auxiliary transmitter to control DVD player



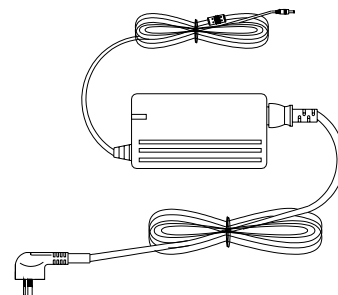
AV wire



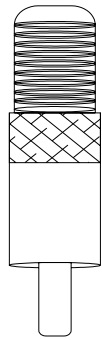
Power adaptor for transmitter



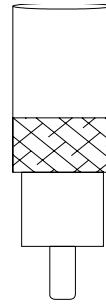
SCART plug to 3RCA plugs



Power adaptor for TV



RCA MALE TO F FEMALE



PAL FEMALE TO RCA MALE

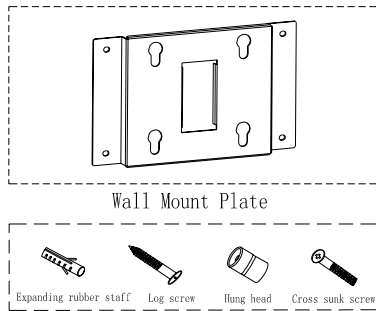
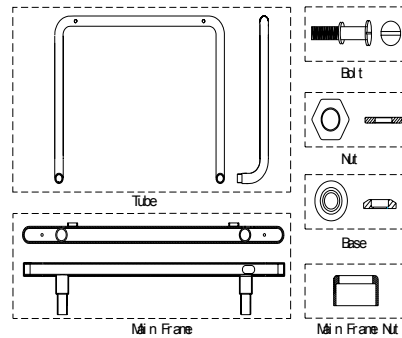


Plate for bath room (wall-mounting)



Stainless tube (optional) for bath tub fixed)

Installation:

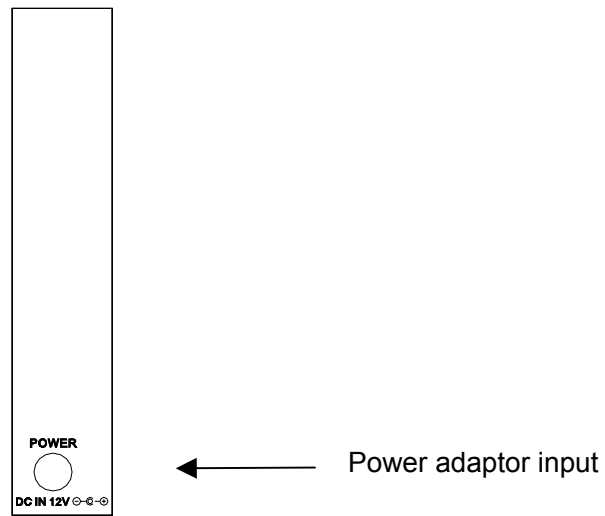
Bathtub mounting: you can select both models, to have a stainless tube described above by which the TV is installed on bath-tub or spa.

Generally the TVs are wall-mounted by a pallet which not complies with VESA standard.

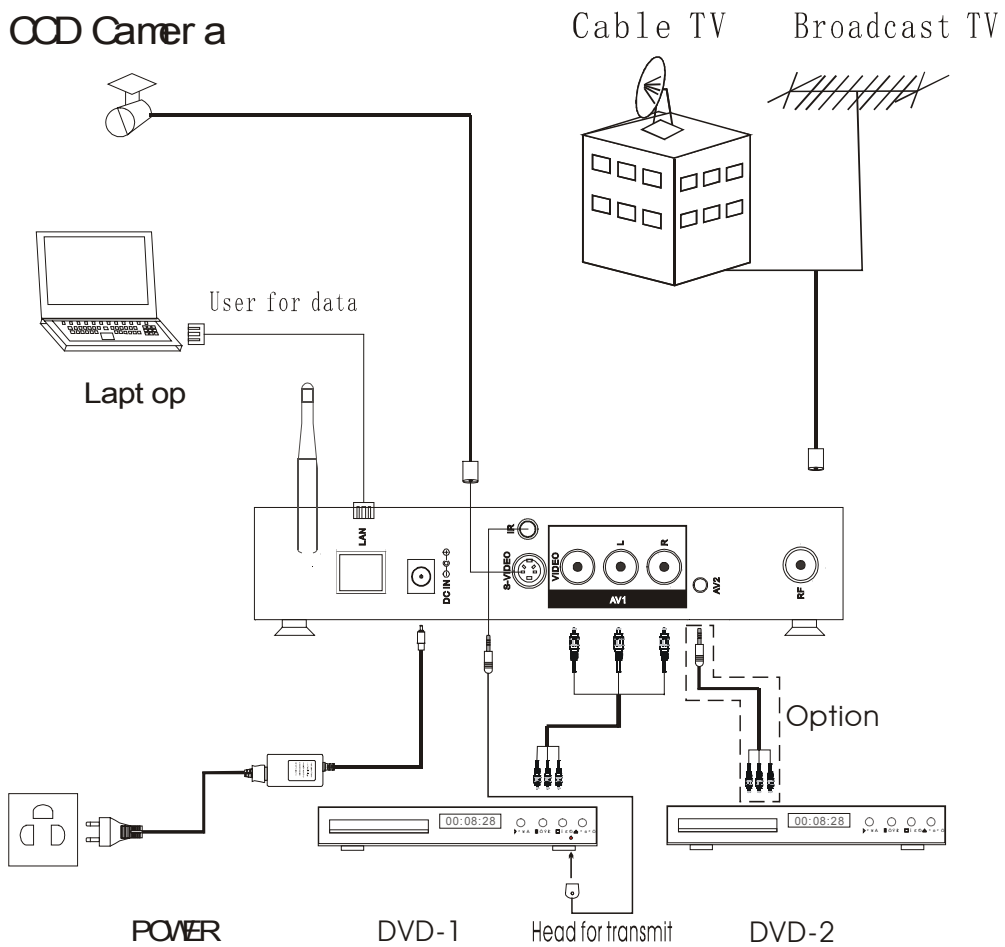
Wall Mount Installation Instruction



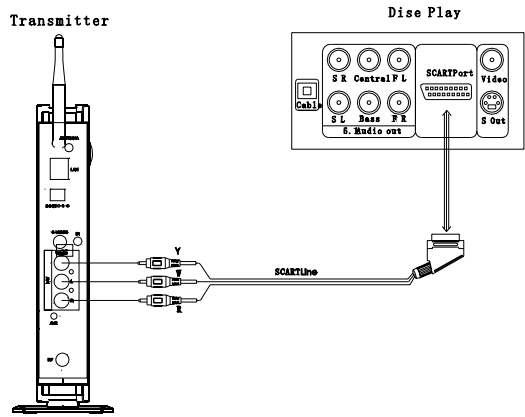
V. Wires Connections



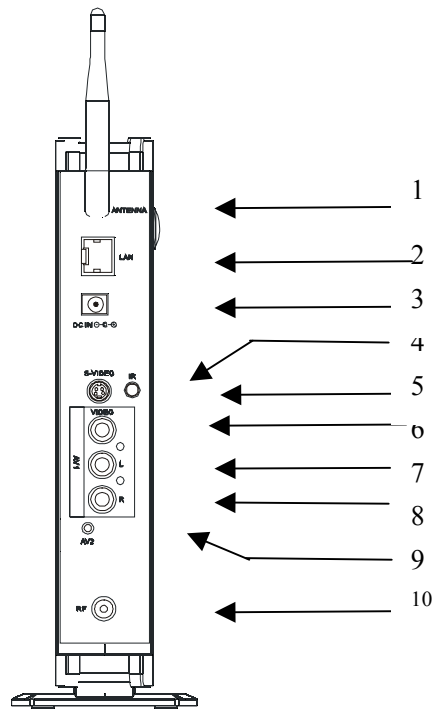
Rear view of transmitter



Charter for connection among DVD player/Transmitter to PC(the function is to be launched)

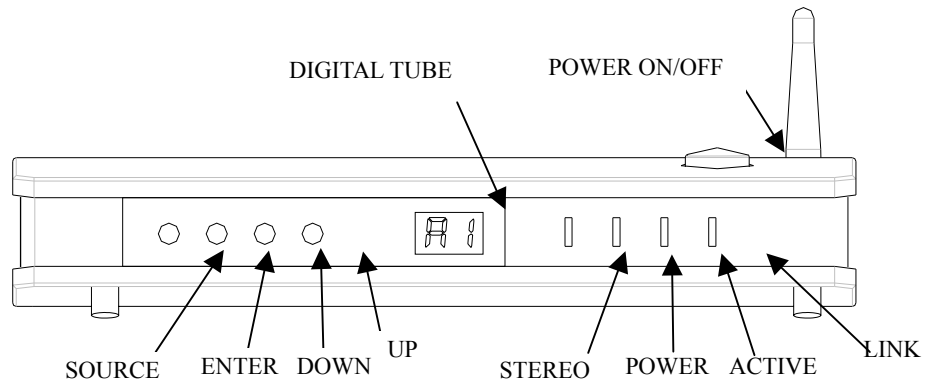


SCART Connection Chart



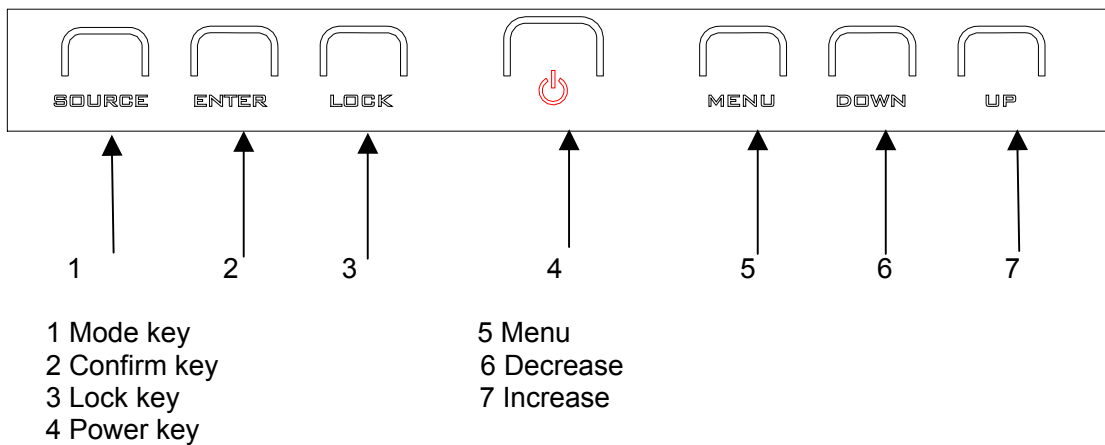
Rear view of transmitter

Item	socket		Source of signal	
1	antenna	input	Transmitting signal	Transmitter box
2	RJ-45	Input/output	LAN	PC/ router
3	power	input	DC-7.5V 2A	
4	S port	input	video	Digital camera
5	Head of transmitter	output	Remote controller for peripheral	
6, 7, 8	AV-1	input	(Y)video(R)right (L)left track	DVD DV VCD
9	AV-2	input	Micro AV	DVD DV VCD
10	Radio frequency	input	PAL/NTSC/SECAM	Cable TV /broadcasting TV

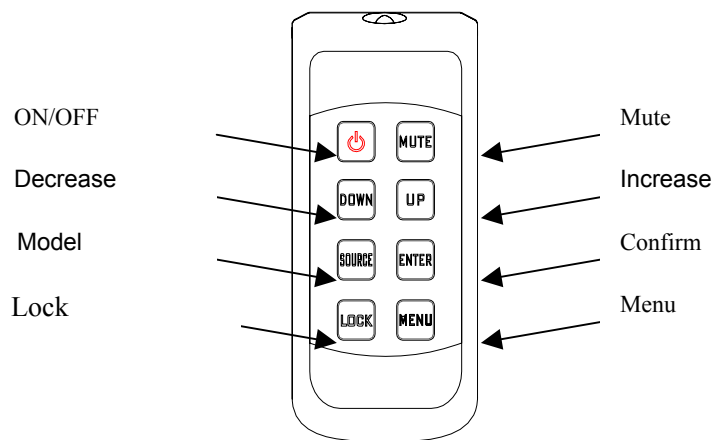


VI. Panel Key Functions

6.1 TV Panel Keys



6.2 Remote Controller Keys



Effective range of remote controller:

Angle about 30 degree from center
 About 8 meters from front TV

Cautions using remote controller:

1. Keep remote controller transmitter head from direct sunlight to avoid fault.
2. To ensure good waterproof function, battery is pre-installed before shipment.
3. When battery is low, please replace it in time, otherwise it will affect sensitivity.
4. Use right battery and install in right polarity. After installed battery, inject the battery cover with glue.
5. Dispose battery properly under local law and regulation.
6. Do not throw remote controller or put heavy object on it, do not dip remote controller in water for long time.

VII. Operation Instruction

Note: In this paragraph, operation for TV panel is “Touch”, and operation for remote controller is “Press”



Confirm right connection and power light is on. Set on TV power source, to light up the backlight of keys, which are clearly shown on the screen panel, so further operations are possible.

You may achieve all control through touching on TV front panel or by pressing remote controller. Remote Controller add a key, i.e.,” mute” key, more than TV panel. Through either of the method, you may achieve a control to TV.

7.1 ON/OFF Key

When power source connection is right, press this button “” to turn on or off TV.

7.2 “MUTE” Key

Press the key to eliminate sound output, while icon  keeps flashing on upper right corner of screen. Press the button again, sound resumes to original condition with the icon “” on upper right screen, which disappears within 3 seconds. In mute condition, press “VOL-”, volume resumes original and decreases; press “VOL+”, volume resumes original and increases.

7.3 “MENU” Menu key

Press the key to select sound volume, brightness, and contrast for adjustment. Work with “DOWN” and “UP” keys to achieve adjustment.

7.4 “DOWN” Decrease key

Press the button to decrease sound volume, brightness, and contrast ratio to minimum. The screen displays icon and percentage change under operation.



7.5 “UP” Increase key

The screen displays icon and percentage change under operation.



7.6 “LOCK”

Press this button for 5 seconds to lock all keys on panel. Once locked, indication light twinkles every 2 seconds. Press “LOCK” button for another 5 seconds, indication light twinkles every 0.5 seconds indicating that the lock has been lifted and now you may operate through touching TV front panel. Click once the “lock” key on the remote controller to release the lock.

7.7 “ENTER” Confirm key

Press the key to select following items from the menu:

WIRELESS CHANNEL 007
MPEG BITRATE 4.5MHz
SCAN ALL TX
PASSWORD Change
POWER OFF

7.8 “SOURCE” Convert among models

Press the key to achieve conversion among following models: TV, AV1, AV2, SV.

Transmitter

Be sure correct connection between power source of transmitter and wireless TV, and then apply power. You will see power source indicator light (Orange) is light on, stereo indicator light (Red) is light on, state indication light is twinkling. (Green)

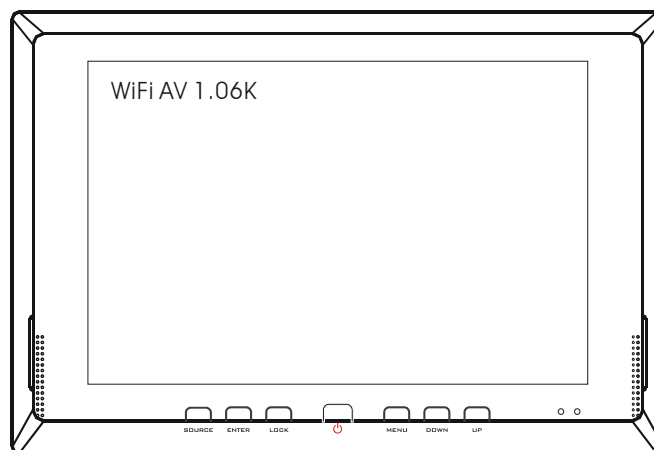
Wireless TV

Now that everything is in place, connected and ready, it is time to turn on the devices, establish a connection between your Wireless TV and the transmitter. After you turn on your wireless TV, it performs an automatic wireless search to connect the transmitter. Once that connection is made, it is then easy to set up the Wireless TV for watching TV/ DVD movies and any other devices you have connected.

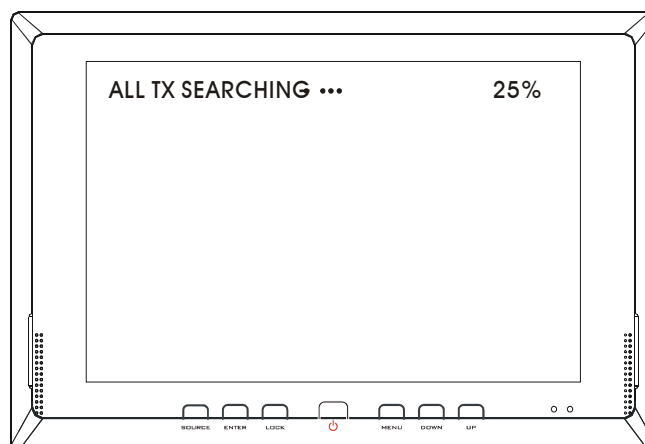
Establishing the TV Connection

After turning on the Wireless TV for the first time, the items below are what you will see. We will take you right into TV channel setup as well.

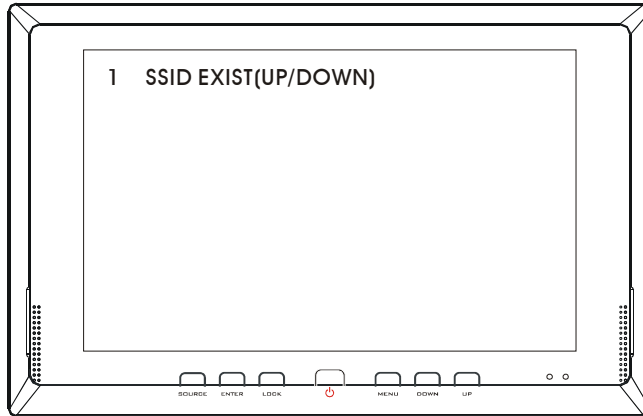
After turning on the Display monitor, you will see "WiFi AV 1.06K" on the screen.



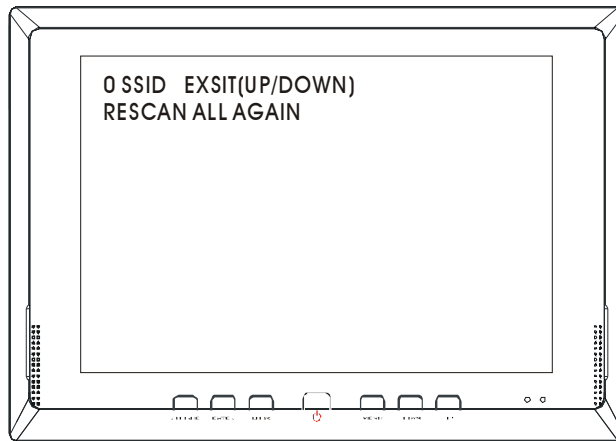
It cost about 25-40 seconds to search all transmitting signal and connect to transmitter automatically.



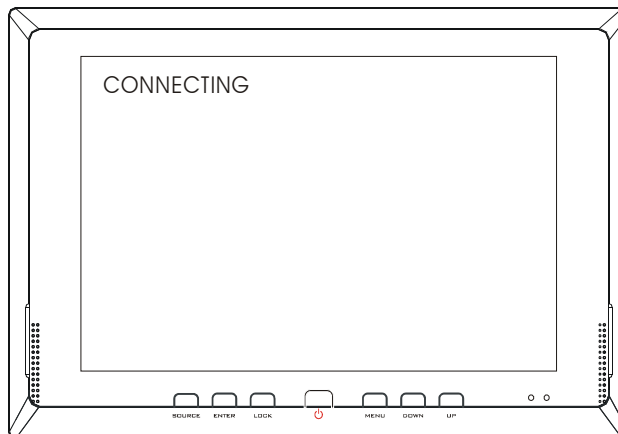
When read "1 SSID EXIST(UP/DOWN) on the screen, 1 means that TV have been connected with transmitter successfully, 0 means connection fail.



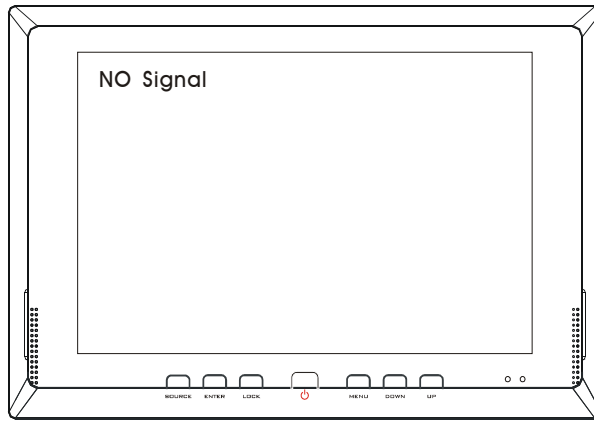
The reason that cause the result of “0 SSID EXIST (UP/DOWN)” might be blockage of signal. Turn off transmitter for a while and then turn on it again. When failure happens, try to check if they are within effective distance, position and hindrance, or try to select another suitable channel on transmitter to avoid disturbance.



When “1 SSID EXIST (UP/DOWN)” appears on screen, and then screen display “CONNECTING”:

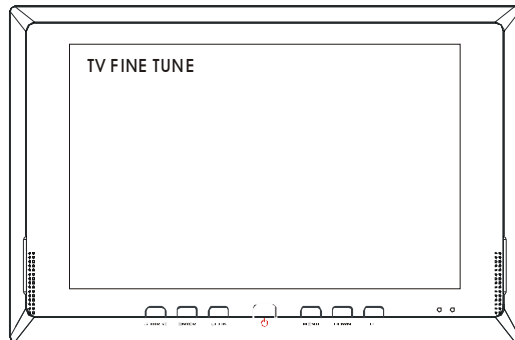
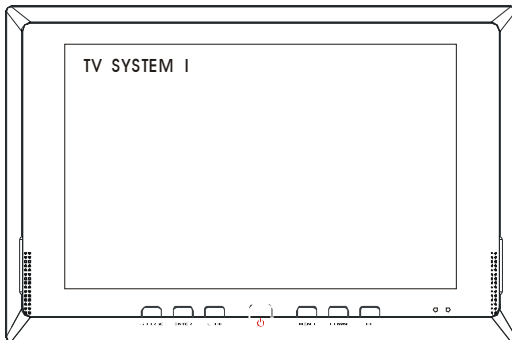
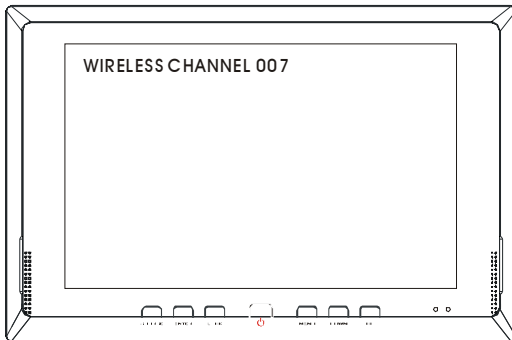


Connected successfully, you will see on up-right corner of the screen display AV1/AV2/SV/Number of channel.



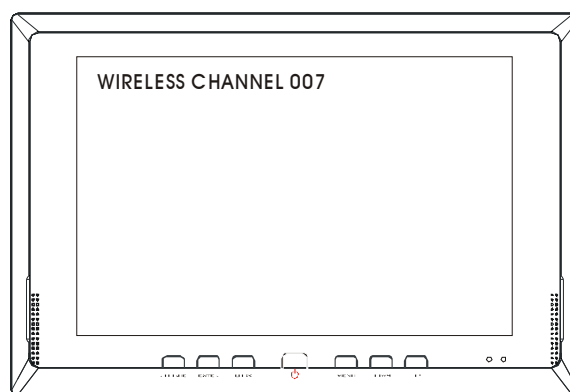
Through "SOURCE" key to select models, selectable models list below: "AV1, AV2, SV, TV"
In TV mode, and then press "ENTER" key, screen display following menu :

WIRELESS CHANNEL 007
STEREO A
TV SYSTEM I
TV FINE TUNE
POWER ADDLEL OFF 007 IRC/ M/N
TUNER SCAN
MPEG BITRATE 4.5MHz
SCAN ALL TX
PASSWORD CHANGE
POWER-OFF

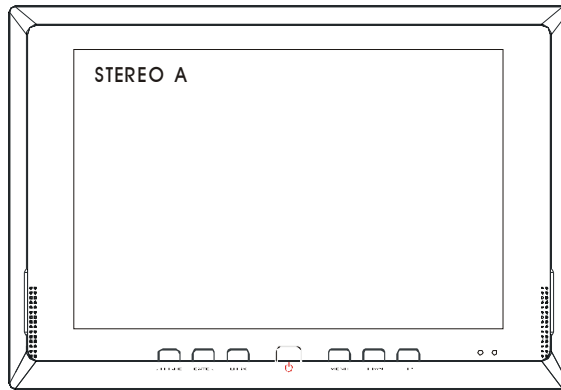




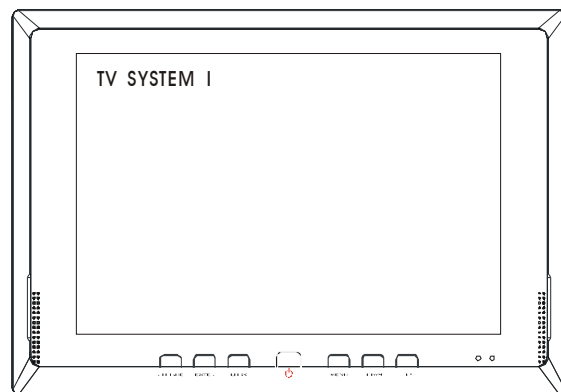
When select "WIRELESS CHANNEL 007", through "DOWN", "UP" key to increase or decrease wireless channels, which include 01, 03, 05, 07, 09, 11, 36, 40, 48, 52, 56, 60, 64, 149, 153, 157 and AUTO. 01~11 adopt 802.11b/g standard, 36~157 adopt 802.11a standard.



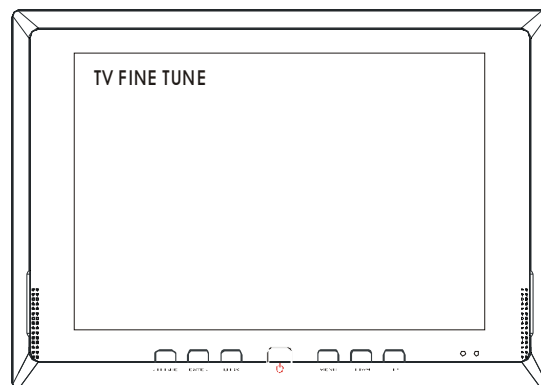
Select "STEREO", through "DOWN" "UP" to select "STEREO A" "STEREO B" "MONO track".



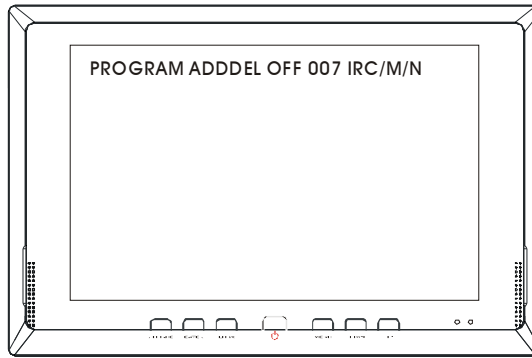
Select "TV SYSTEM", through "DOWN" "UP" key to select proper TV system, selectable TV system including: "TV SYSTEM I", "TV SYSTEM G/H", "TV SYSTEM M/N", "TV SYSTEM B", "TV SYSTEM D/K"



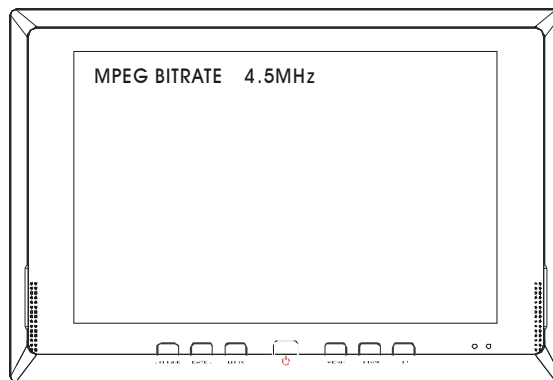
Select "TV FINE TUNE" to conduct fine tune.



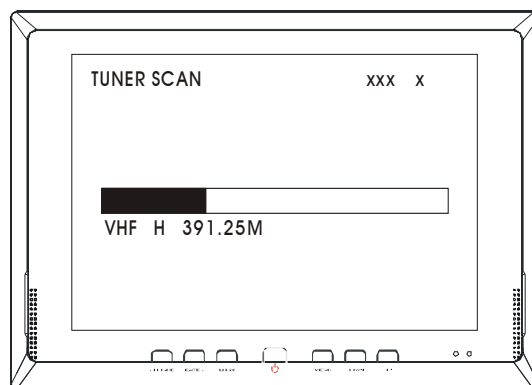
Select "PROGRAM ADD DEL OFF 007 IRC/M/N", through "DOWN" "UP" to select "PROGRAM ADD DEL OFF 007 IRC/M/N" "PROGRAM ADD DEL ON 007 IRC/M/N"



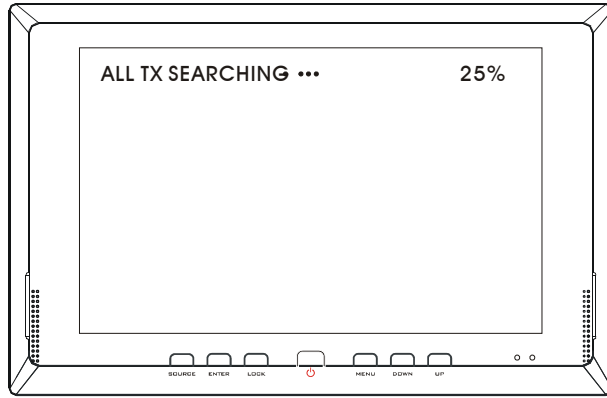
Select "MPEG BITRATE 4.5MHz" through "DOWN" "UP" to choose bit rate, which include "AUTO" and 3MHz, 3.6MHz, 4.5MHz, 5.4MHz, 6MHz, 6.7MHz, 7.2MHz, 8MHz, 9MHz, 10.8MHz, 12MHz, 13.5MHz.



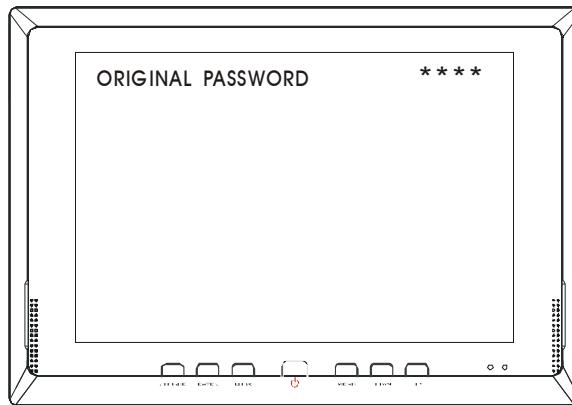
Select "TUNER SCAN" through "DOWN" "UP" to select "TUNER SCAN G/H", "TUNER SCAN I AIR", "TUNER SCAN I", "TUNER SCAN D/K AIR", "TUNER SCAN D/K", "TUNER SCAN B AIR", "TUNER SCAN B", "TUNER SCAN ALL", "TUNER SCAN JP AIR", "TUNER SCAN JP", "TUNER SCAN M/N AIR", "TUNER SCAN HRC", selected a correct system based on sound the country where user is, press "ENTER" key to conduct frequency searching for channels.



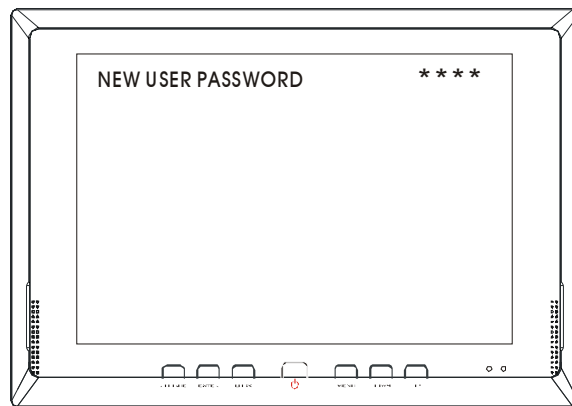
Select "SCAN ALL TX" and then press "SOURCE" key, at the same time, screen display "ALL TX SEARCHING, TV is searching all transmitting signal."



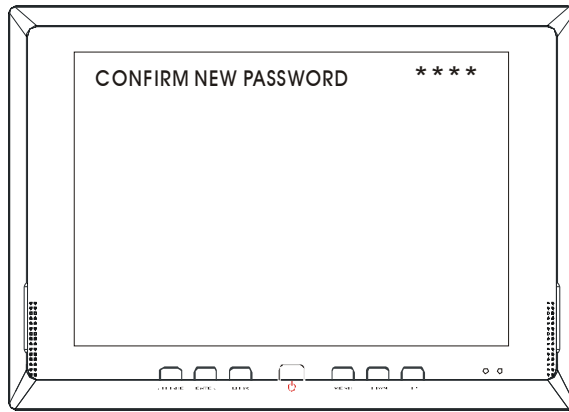
Select "PASSWORD CHANGE" item, and then press "SOURCE" key, screen display "ORIGINAL PASSWORD" at the time, you may set password for starting-up. (four-digit number for password.) through "UP" key to select a digit from 0~9, pressing "ENTER"to set next digit.



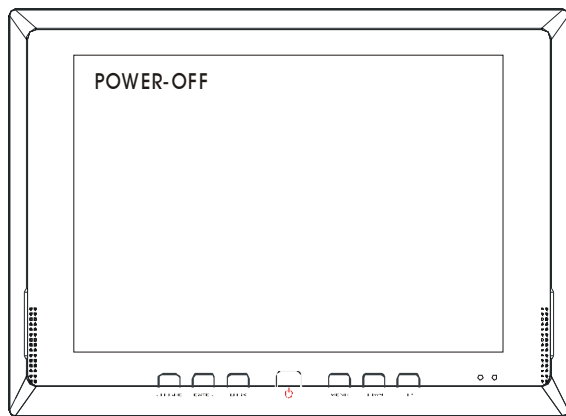
After finished four-digit password setting, go into sub-menu "NEW USER PASSWORD" to set a new password for a new user.



And then display "CONFIRM NEW PASSWORD" for confirming new password.



Select "POWER-OFF" and then pressing "ENTER" key to turn off wireless TV.



VIII. Wireless Trouble-shooting

Wireless Signal

This monitor (Receiver) only can receive signals from transmitter box. Location and user environment will influence signal transmission quality. So, in order to get a high performance signal, choose a proper location to place the transmitter box.

Sometimes you will lose signal when watching TV. To overcome, Follow steps below:

First, check the power source and turn it off and on again. If the signal still can't be received, please make sure you are close enough to the transmitter. Environments bad for signals are places such as basements, hollow areas, building corners or places simply too far away.

Using Wireless TV uses 802.11a/b/g wireless transmission specification to transports signals with 2.4GHz & 5GHz frequencies as defined by IEEE. Signals transmitted out over 30 meters should be supported. Unfortunately, there are too much wireless equipment in houses that can affect signal transport quality.

Factors affecting transmission include microwave ovens or other high frequency electromagnetic waves. Reinforced concrete walls, large-scale metal products and metal furniture should not be located near machine. Water creates an obstacle and should not be placed near the machine. Human bodies such as a person passing through the signal can cause poor signal quality.

How to improve the wireless signal quality?

Remove all obstacles that might reflect the signal. This could include furniture, cabinets, and walls. If a user feels the wireless signal is not good enough, place the receiver at a new angle or readjust its position to make an improvement.

Wireless Channel Selection

When the signal quality is bad the monitor will show the message "WIRELESS OVERLOAD" or show state of constant searching.

The problem reason analysis:

The Wireless Displayer and transmitter use 802.11a/g to communicate with the transmitter box, which includes channels 01, 3, 5, 7, 9, 11, 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157 and AUTO. Channels 01 ~ 11 use 802.11g of 2.4G, Channels 36 ~ 157 use 802.11a of 5.8G.

When use at home, the use of channel 1-11, frequency 2.4G is recommended, and 2.4G transmits longer distance than 5.8G. But when more interference exists in the surrounding from similar equipments using 2.4G, the use of 5.8G is suggested. For example, the existing large amount of blue tooth equipment disturbance on show site will affect 2.4G, if you change to 5.8G, i.e, channel 36-157, which is less used, the disturb will be weaker, there will be no such problem.

So, to improve signal quality we can change the wireless channel.

The change of wireless channels can be done directly by setting the monitor while it is connected with the transmitter, the steps are as follows:

- 1 Touch the "**enter**" button on the monitor to see current channel displaying.
- 2 Touch down or up key to select a channel you think is better.
- 3 Touch "**source**" to confirm channel selection.

But if you change to a channel that is so bad, the connection between TV and the transmitter can break. The way to get out of this trap by setting on TV might be in vain, now try to move either the TV or transmitter closer to get connected again when the distance is too far, or set the transmitter by following steps when interference is strong:

To make this change, do the following.

- 1 Press the “**enter**” button on the transmitter to see current channel flickering.
- 2 Press **down** or **up** key to select a channel you think is less disturbed, e.g, channel 157 or 1-11 for covering a longer distance.
- 3 Press “**enter**” again to confirm channel selection.

Troubles	Trouble-shooting
No power source, indicator light off	Check if power source plug is in socket, or loose out of socket. After plug off, wait for 15 seconds before plug again.
” No signal” appear on screen	Check connection between AV□TV signal lines, and if the transmitter is on and connections correct.
Too bright or too dim	Refer to “Picture menu” to adjust “brightness”□“contrast”
Image with mosaic or noise	Adjust transmitter box position or shut it 1 minute then turn it on again.
Image with interference or noise	It might be caused by home appliance, car, motorcycle, fluorescent light and cell phone, etc.
Normal image but no sound	Check if mute function is on. Check connection between Audio input port on TV side and Audio output pot in peripheral equipment.
Image is normal but with noise	Check sound system selection.
monochrome picture with noise	Bad input signal, try fine-tuning.

Notice:

About screen flaw

Production of TFT screen adopts high technology; even so, screen may have dead point. It does not mean trouble.

About remnant image

It happens that remnant image exists after a short display of a still picture. The remaining image will be disappeared within several minutes and resume to normal condition. If it works in high temperature, the remaining image might disappear after dozens of minutes. The above condition is not fault.

About screen

LCD screen display image through internal light up of fluorescent material. Therefore, temperature of LCD surface might rise. Although the product adopts additional anti-pressure glass screen, please still not to press screen with finger or palm. Otherwise, it might damage liquid crystal or break glass.

About Usage under low temperature

When use under low temperature, reaction of LCD screen might slow down. In some cases, the feature might cause image remaining, it is not fault. Once back to normal temperature, it will resume.



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