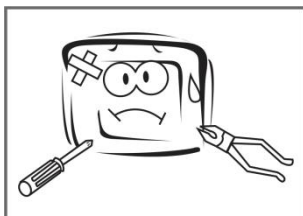


User Guide

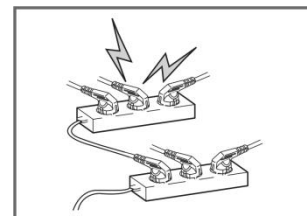
Bathroom / Shower TV AVIS
AVS190F / AVS220F / AVS260F

To prevent injury, AVIS Bathroom TV must be securely attached to the wall in accordance with the installation instructions. The power supply must be connected to a mains socket outlet with a protective earth connection. The mains isolation switch must remain readily operable. Failure to observe the above safety warnings may invalidate the warranty. All electrical installation should be carried out by a fully qualified electrician.

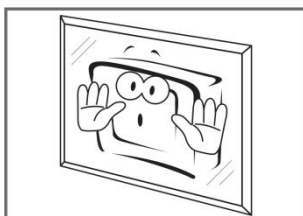
Warnings



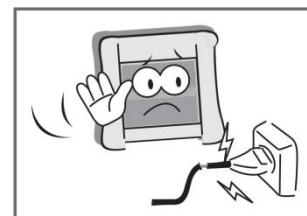
Do not attempt to service the unit.
Contact an authorised dealer or repair service.
– Servicing the unit yourself may cause an electric shock or fire.



Do not connect too many extension cords or plugs to an outlet.
– This may cause a fire.



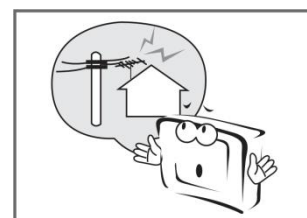
Do not add an additional screen or cover the TV glass.
– The heated screen prevents condensation forming in steamy rooms and covering the screen may cause the unit to overheat.



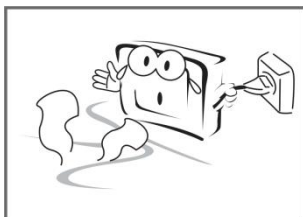
Do not use a damaged socket and do not let the power cord touch a heat source.
– This may cause an electric shock or fire.



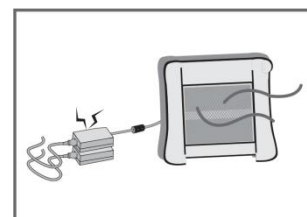
If an outside antenna is connected to the unit, ensure the external to internal cable entry is fully sealed
– This may cause an electric shock or fire.



Ensure the antenna is located away from overhead cables.
– This may cause an electric shock.



If there are any unusual sounds or smells coming from the unit, turn it off immediately with the isolation switch and contact an authorised dealer or repair service.
– This may cause an electric shock or fire.



Keep the power adaptor away from any heat source.
– This may cause a fire.

Accessories

Within the box there are following accessories supplied (beside the main unit):

Installation back box x 1pcs



Waterproof ceiling speakers x 2pcs

Speaker's connecting cables x 2 pcs

Remote control x 1pcs

DC Adapter x 1pcs



* real accessories may be slightly different from the pictures. Pictures are provided for reference use.

Installation Steps

When you install your AVIS TV please make sure you follow the steps as recommended below:

1. Assemble the installation back box
2. Prepare installation niche in accordance with back box sizes and type of installation (see Page 5).
3. Prepare a niche in the wall or a place in your Bathroom cabinet for connecting cables.
4. Lead sound cables from the ceiling speakers to the cables connecting niche.
5. Fix installation back box inside the wall.
6. Prepare a place for AC/DC Adapter (see Page 6).
7. Install your TV into the back box (make sure all the cables are inside and there is no jamming between the TV and installation box).
8. Connect necessary cables and check your TV.
9. Seal your TV as suggested on Page 7.

1. Assemble the installation back box

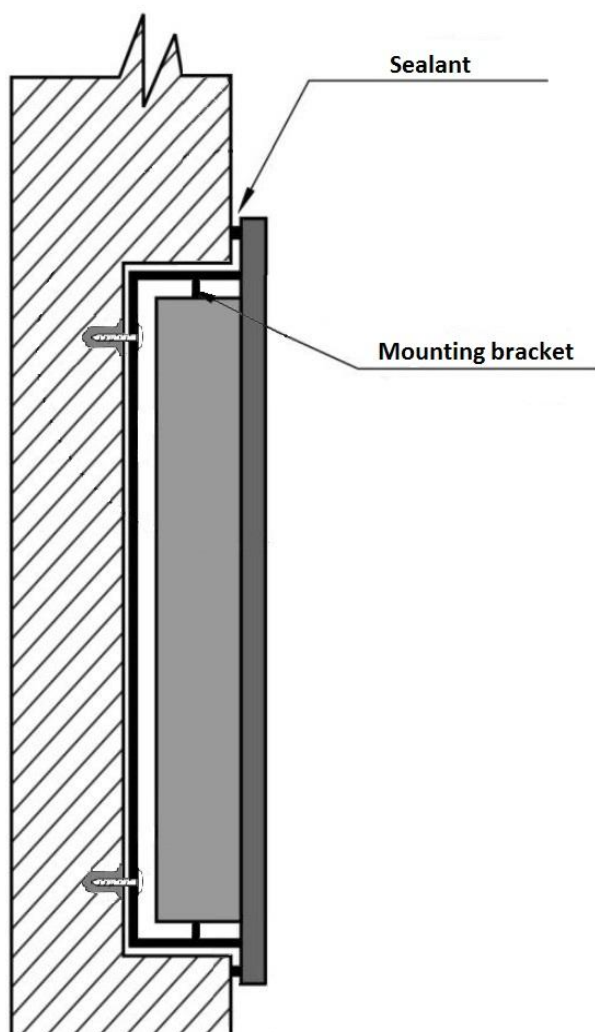
fixed Assemble supplied metal installation back box and try if you TV can be and released easily.



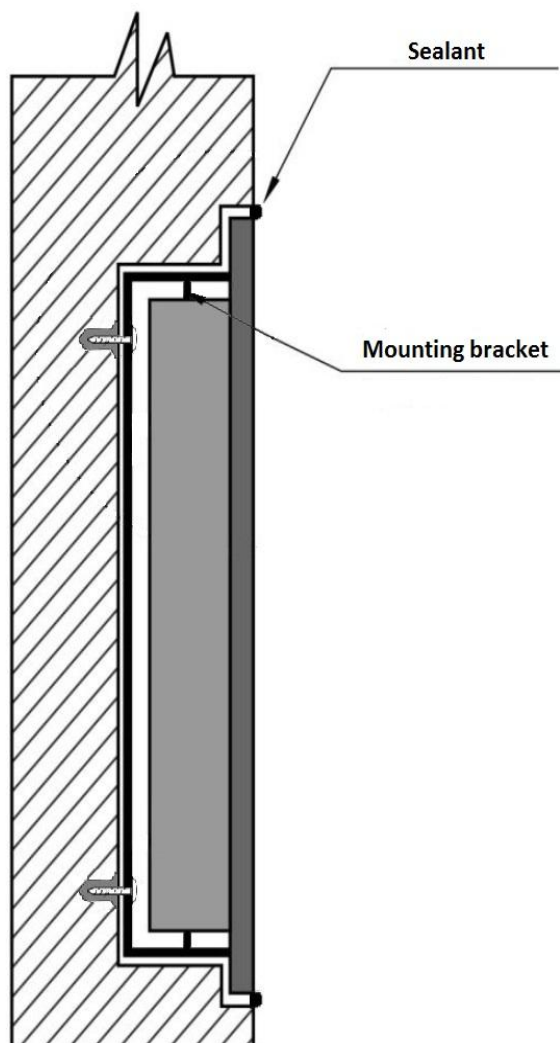
Prepare installation niche

Choose one installation type as shown below.
We recommend type 1 as more simple and universal.

Type 1:



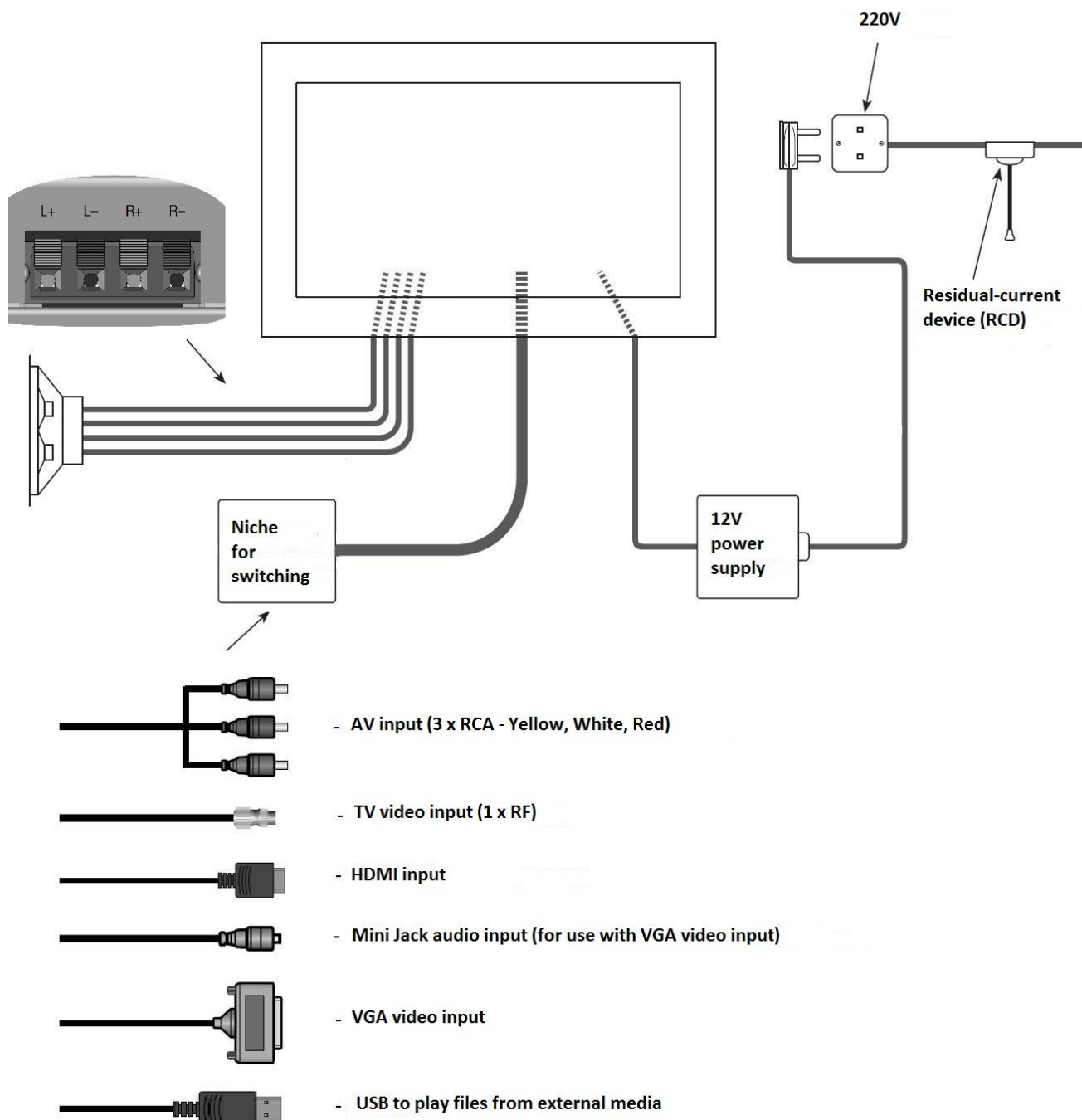
Type 2:



Use waterproof sealant as suggested on the pictures above to fix your TV and to make sure the water will not enter the back niche. Be noted that you may need to take off your TV for maintenance.

Connecting signal and power

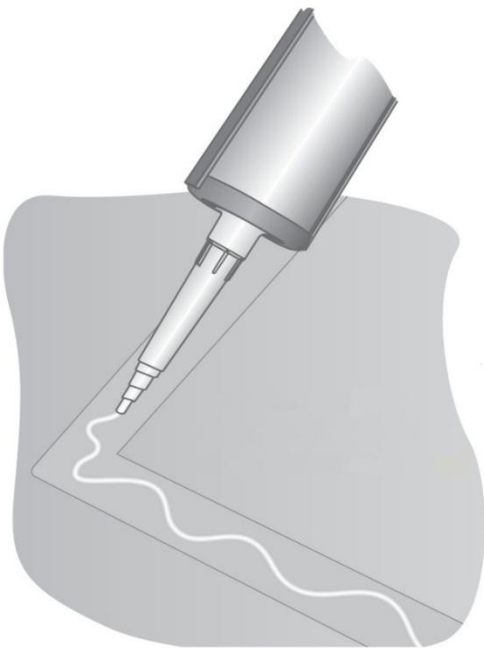
Connect signal cables that you need according to the suggested scheme below. We aware that AC/DC power adapter is not waterproof and to be fixed in a dry place.



Sealing of joints

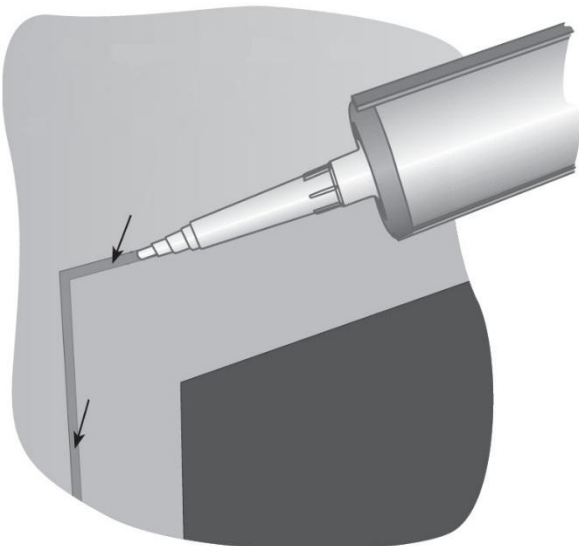
Before sealing make sure the TV is connected and works properly. According to type of installation carefully seal the joints with waterproof sanitary sealant.

For Type 1 installation:



If you choose installation Type 1 add sealant on the back of the TV frame as shown on the picture and press the TV to spread the sealant between the wall and the TV frame.

For Type 2 installation:



If you choose installation Type 2 seal the gap between the wall and frame of the TV as shown on the picture.

IR remote control (IP67)

Power ON/ OFF

INPUT — source select (TV / AV IN / HDMI / USB..)

MUTE — sound mute

0-9 — choose TV channel

▲, ▼, ►, ◀ — navigate in OSD Menu

OK — confirm your selection

CH+ / CH - — next / previous TV channel

VOL+ / VOL- - Volume control

Your remote control is full waterproof and can be submerged in water.

Caution! When you change the battery make sure that rubber O-ring under the cover is fixed properly otherwise your remote can be damaged by water.

OSD Menu

1. **CHANNEL** — choose TV input to activate menu

1.1 **Auto Tuning** - automatic tuning of all available TV channels

1.2 **ATV Manual Tuning** - manual tuning allows to fine-tune the channel, set the color system, sound system and enable automatic frequency control (AFC)

1.3 **Programm Edit** - allows you to set channel numbers

2. **PICTURE**

2.1 **Picture Mode** - allows you to select between "Dynamic", "Standard", "Mild" and "User" modes

2.2 **Color Temperature** - allows you to select between "Cool", "Medium", "Warm"

2.3 **Noise Reduction** - allows you to select between "Off", "Low", "Middle", "High".

3. **SOUND**

3.1 **Sound Mode** - allows you to select between "Standard", "Music", "Movie", "Sport" and "User" modes

3.2 **Balance** - adjust the volume balance between the left and right channels

3.3 **Auto Volume** - enable or disable the automatic level control of the sound

4. **TIME**

4.1 **Sleep Timer** - allows you to set the time before TV turns off

4.2 **Auto Sleep** — allows you to set time before TV turns off if you didn't push any buttons during whole period

4.3 **Timer Menu** - allows you to set the time period before the menu will disappear.

5. **OPTION**

5.1 **OSD Language** — choose menu language

5.2 **Aspect Ratio** - allows you to select between 4:3, 16:9, Scale1, Scale2

5.3 **Blue Screen** - appearance of a blue screen when there is no TV signal

5.4 **Key Lock** — function inactive

5.5 **Reset**

5.6 **Software Update (USB)**

Source selection

To select an external video and audio signals, press on the remote control INPUT and select one of the listed video inputs (see. P. 6). If the selected input is not connected the corresponding device, the screen will display "No Signal."
To view the TV signal "ATV" input is to be selected.

USB Host function

To turn on the media player, connect the USB memory stick to the input of the TV and select the video input "Media". In the menu you will be prompted to select "Photo", "Music", "Movie", "Text".

When viewing files on the memory card, press the "OK" button to access the playback control menu.

Table on Page 11 shows the supported media formats.

| Media | File Ext. | Codec | | Remark |
|--|----------------|----------------------|---------------------------|--|
| | | Video | Audio | |
| Movie | .avi | MJPEG | MP3, WMA, AAC MP2, PCM | Max Resolution And Frame Rate: 720p@30fps Max Data Rate: 10 Mbps |
| | | Xvid, MPEG-2, MPEG-4 | | Max Resolution And Frame Rate: 720p@30fps Max Data Rate: 20 Mbps |
| | .mp4 | MPEG-2, MPEG-4 | | |
| | .ts/ .trp | MPEG-2 | | |
| | .mkv/ .mov | MPEG-4 | | |
| | .mpg | MPEG-1, MPEG-2 | | |
| | .dat | MPEG-1 | MP2 | Max Resolution: 352×288 Max Data Rate: 20 Mbps |
| | .vob | MPEG-2 | | Max Resolution: 720×576 Max Data Rate: 20 Mbps |
| | .rm/ .rmvb | RV8, RV9, RV10 | COOK | Max Resolution And Frame Rate: 720p@30fps Max Data Rate: 10 Mbps |
| Music | .mp3 | -- | MP3 | Sample Rate: 32K~48KHz Bit Rate: 32K~320Kbps Channel: Mono/Stereo |
| | .wma | -- | WMA | |
| | .m4a/ .aac | -- | AAC | Sample Rate: 8K~48KHz Bit Rate: 24K~384Kbps Channel: Mono/Stereo |
| Photo | .jpg/ .jpeg | Progressive JPEG | | Max Resolution: 1024×768 |
| | | Baseline JPEG | | Max Resolution: 15360×8640 |
| | .bmp | -- | | Max Resolution: 9600×6400 |
| | | | | Pixel Depth: 1/4/8/16/24/32 bpp |
| | .png | Non-Interlaced | | Max Resolution: 9600×6400 |
| | | Interlaced | | Max Resolution: 1200×800 |
| File system: Hi Speed FS, FAT32, FAT16, NTFS(NTFS compressed file is not supported). | | | | |

| | | | |
|---------------------|----------------------------------|---|----------------------------|
| VIDEO INPUT | TV | Receiving Range | 48.25MHz-863.25MHz |
| | | Input impedance | 75Ω |
| | | Video System | PAL/SECAM |
| | | Sound System | B/G,D/K,I |
| | | | NICAM/A2 |
| | | Max storage Channels | 200CH |
| | | TELETEXT | 1000Pages |
| | PC-RGB | Format | Up to SXGA@75Hz |
| | CVBS | Video System | PAL/NTSC/SECAM |
| | | Video level | 1.0 V _{p-p} ±5% |
| | S-Video | S-Y:0.714 V _{p-p} ±5%, S-C:0.286 V _{p-p} ±5% | |
| | Component | 480i, 480p, 576i, 576p, 720p, 1080i, 1080p | |
| | HDMI | 480i, 480p, 576i, 576p, 720p, 1080i, 1080p | |
| AUDIO INPUT | PC Audio | Earphone Input | 0.2 ~ 2.0 V _{RMS} |
| | CVBS & Component & S-Video Audio | L/R RCA Input | 0.2 ~ 2.0 V _{RMS} |
| AUDIO OUTPUT | Frequency Response | 120Hz~14KHz @±3dB (1KHz, 0dB reference signal) | |
| | Max Output power | 2×3W(4Ω) THD+N<10%@1KHz (Power Supply: 12V, Audio Input: 0.5V _{RMS}) | |

| | AVS190F | AVS220F | AVS260F |
|-------------------------|--|--|--|
| Screen | 19" LCD | 21.5" LED | 26" LED |
| Product size (WxHxD) | 536*400*52.5 mm | 607x414x52.5 mm | 737*497*52.5 mm |
| Resolution | 1440 x 900 | 1920 x 1080 | 1920 x 1080 |
| Brightness | 350 cd/m2 | 350 cd/m2 | 400 cd/m2 |
| Contrast | 1000:1 | 5000:1 | 800:1 |
| Colors | 16.7M | 16.7M | 16.7M |
| Angle view (H/V) | 170 / 160 | 170 / 160 | 178 / 168 |
| I/O | 1 x TV (75 Ohm — PAL/SECAM) | 1 x TV (75 Ohm — PAL/SECAM) | 1 x TV (75 Ohm — PAL/SECAM) |
| | 1 x PC (VGA) | 1 x PC (VGA) | 1 x PC (VGA) |
| | 1 x HDMI | 1 x HDMI | 1 x HDMI |
| | 1 x CVBS | 1 x CVBS | 1 x CVBS |
| | 1 x USB | 1 x USB | 1 x USB |
| Audio input | 2 x RCA Audio L - R | 2 x RCA Audio L - R | 2 x RCA Audio L - R |
| | 1 x Mini Jack | 1 x Mini Jack | 1 x Mini Jack |
| Audio output | Amplified 2CH (8 Ohm) for ceiling speakers | Amplified 2CH (8 Ohm) for ceiling speakers | Amplified 2CH (8 Ohm) for ceiling speakers |
| USB Host | Supports video, audio and images playback from USB and HDD | Supports video, audio and images playback from USB and HDD | Supports video, audio and images playback from USB and HDD |
| Waterproof grade | IP65 | IP65 | IP65 |
| Power supply | AC 100-240V, 50/60Hz/12V/5A Adapter | AC 100-240V, 50/60Hz/12V/5A Adapter | AC 100-240V, 50/60Hz/12V/5A Adapter |
| Power consumption | max.42W; 3W (stand by) | max.45W; 3W (stand by) | max.45W; 3W (stand by) |