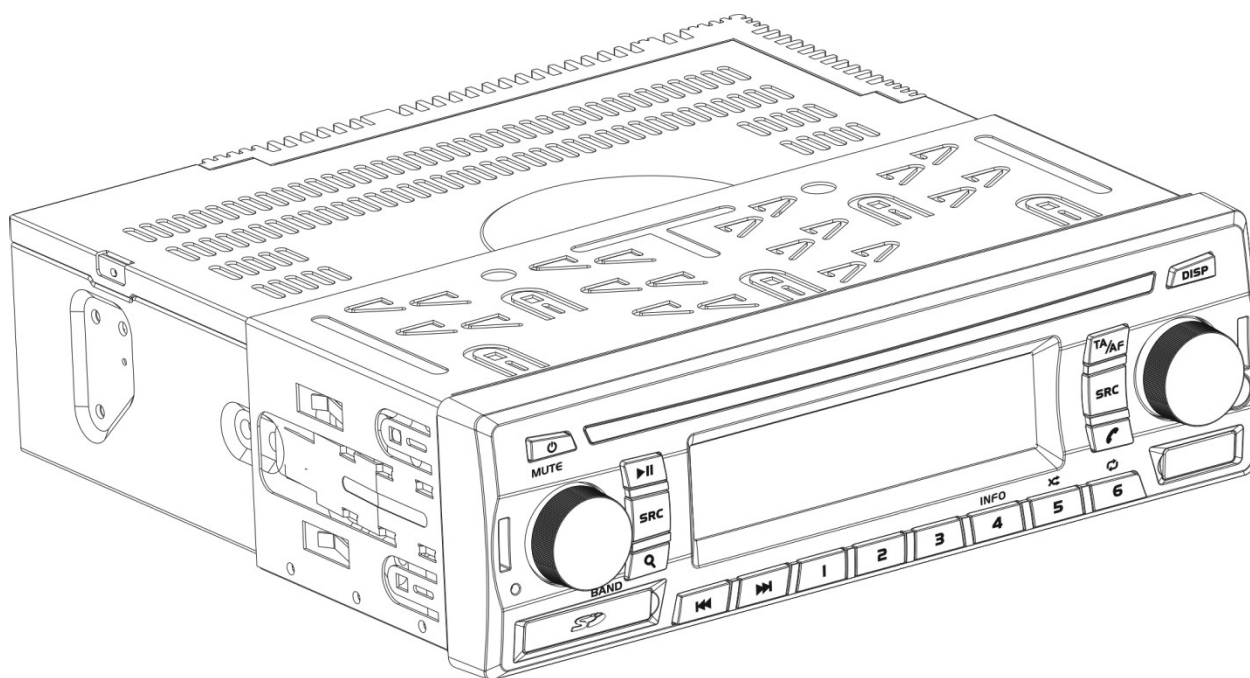




User Manual

ACT550

Dual-zone AV Media Player



DIVX

PAL NTSC

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1. Before Use

WARNING

- Avoid using this product if it might hinder driving safety.
- Do not operate any function that takes your attention away from safe driving.

CAUTION

General:

- Keep this manual handy as a reference for operating procedures and precautions.
- Protect the equipment from moisture.

Volume setting:

- Always keep the volume low enough so you can hear sounds outside of the vehicle.

Remote control:

- PULL OUT THE INSULATION SHEET BEFORE THE FIRST USE.
- Remove the battery if the remote control is not used for a month or longer.
- Do not recharge, disassemble, heat or dispose of the battery on a fire.
- Do not store the battery with metallic materials.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.
- Comply with the environmental regulations that apply in your country/area regarding batteries disposal.
- When replacing the battery, make sure that the position of the new one is correct (with positive (+) and negative (-) poles facing the proper directions).



How to read this manual

- Operations explained mainly using buttons of the faceplate.
- [XX] indicates the selected items (buttons).

2. The ACT550 Equipment

The ACT550 Equipment plays different audio and video sources independently in the driver and passenger areas (Dual-Zone). For this, it has controls on the front panel, remote control and external control via CAN bus (if the vehicle has the necessary equipment).

Main characteristics:

- Dual-Zone.
- Radio AM/FM RDS.
- Digital audio and video playing from USB devices and SD Cards.
- Audio playing from iPhone, iPod and iPad devices through the USB connection.
- Microphone inputs for driver and guide.
- IR remote control.
- Hands-free function compatible with Bluetooth devices.
- Audio playing from Bluetooth devices.
- External control by CAN bus.
- Auxiliary audio and video inputs and outputs.
- Radio line output.
- Integrated audio amplifier 20W per loudspeaker.



Note!

Each zone, driver (DRV) or passenger (PSG) has its own volume control and source selection key (SRC). The rest of controls are common for both areas.



DIVX

This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video. To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX® VOD section of your device USB/SD Car Settings menu.

Covered by one or more of the following U.S. patents:
7,295,673; 7,460,668; 7,515,710; 8,656,183; 8,731,369; RE45,052.

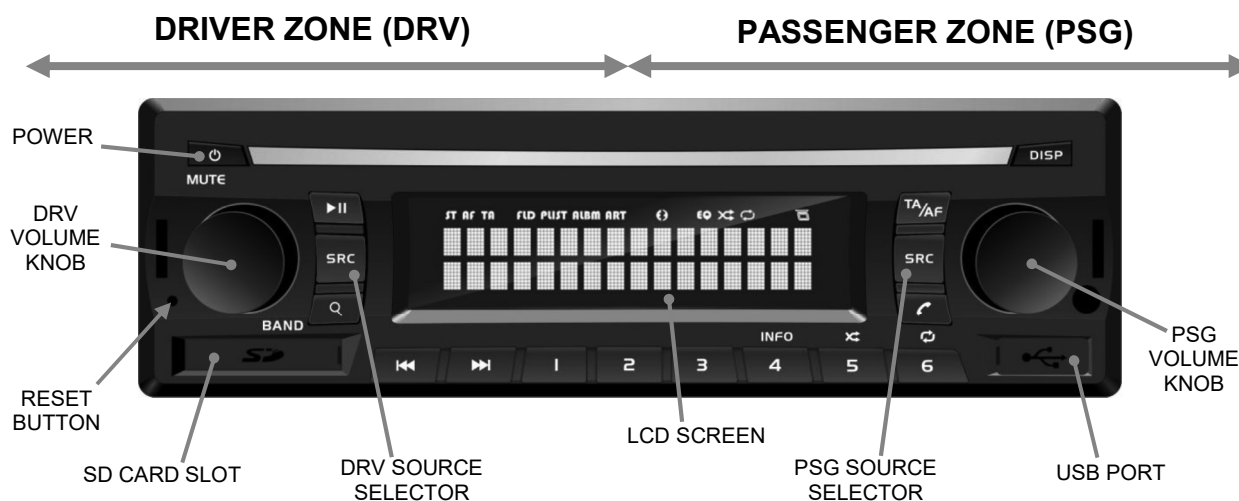
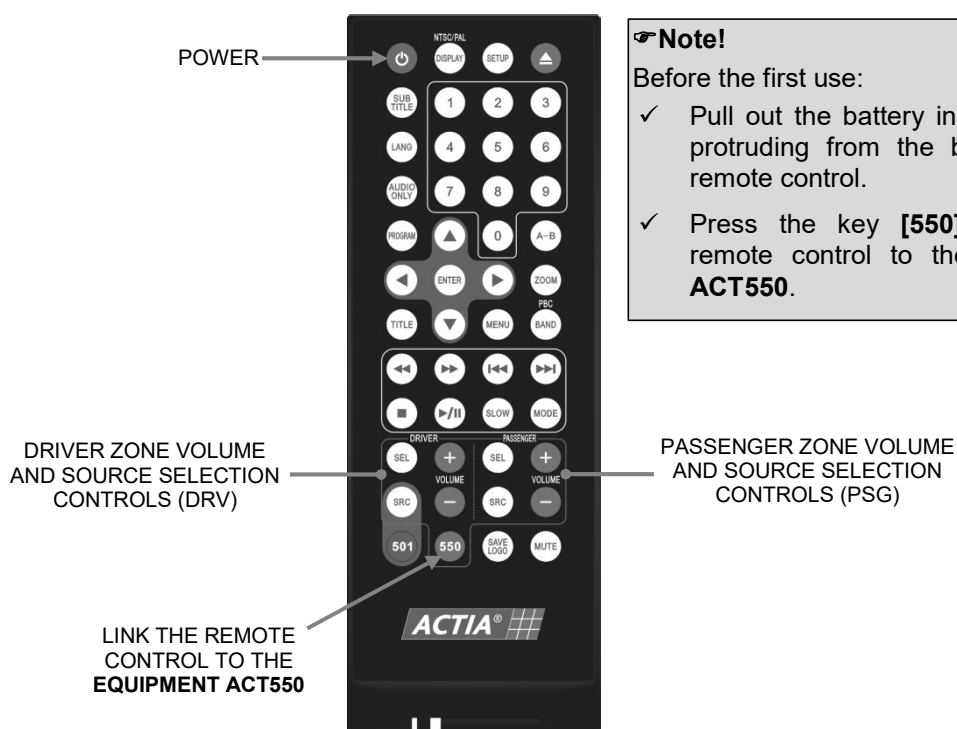


Figure 1 – ACT550 Front Panel



Note!

Before the first use:

- ✓ Pull out the battery insulation sheet protruding from the bottom of the remote control.
- ✓ Press the key **[550]** to link the remote control to the **Equipment ACT550**.

Figure 2 – Remote Control

2.1. Replacement of the Battery of the Remote Control

To replace the remote control battery:

1. On the back of the remote control, press the tab on the side of the battery cover
2. Slide and remove the cover
3. Install a battery type CR2025 with positive (+) and negative (-) poles facing the proper position
4. Push the cover into place. Make sure it is fully seated.

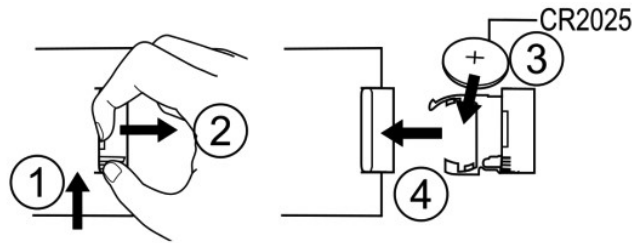


Figure 3 – Replacement of the Battery of the Remote Control

3. Basic Operation

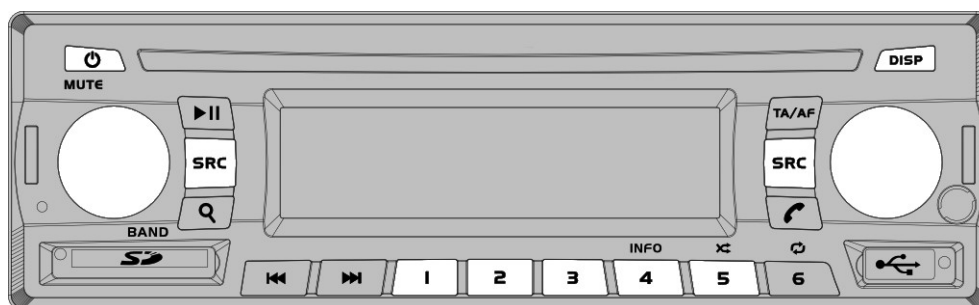


Figure 4 – Basic Controls

Table 1 – Basic Controls

TO	ACTION
Turn on/off the equipment	<ol style="list-style-type: none"> 1. Put the vehicle ignition to ACC 2. Press [a] to turn on the equipment 3. Press and hold [a] to turn off the equipment.
Adjust the volume	Turn the [VOLUME] knob or press the [VOLUME] keys on the remote control.
Select a zone	<p>Press the [VOLUME] knob or the [SEL] key on the remote control, for the concerned zone (driver or passenger).</p> <p>The icons D (Driver) o P (Passenger) on the LCD screen indicate the active zone at all times.</p>
Select a source	<p>Press [SRC] repeatedly for the concerned zone until select the desired source:</p> <ul style="list-style-type: none"> ▪ Radio AM/FM. ▪ USB Player. ▪ SD Card Player. ▪ AV AUX (Auxiliary Input). ▪ Wireless Audio (<i>only available in the driver zone</i>).
Silence the speakers	<p>Press [MUTE].</p> <p>To release:</p> <ul style="list-style-type: none"> ▪ Press [MUTE] again to return to previous volume. ▪ Reduce the volume and then increase it to unlock the silence.
Turn on the passenger screens	Press [DISP] to turn on/off manually the passenger screens. The icon "k" on the LCD screen indicates that the passenger screens are ON.



Note!

For the remote control works with the ACT550 equipment, link the remote control with the equipment by pressing **[550]**.



Note!

Some controls may not be available in the vehicle controls.

3.1. Restore the Factory Settings

To restore the values of the factory settings:

1. Switch off the equipment
2. Press and hold **[DISP]** while switching on the equipment **[a]**.

3.2. Reset of the Equipment



Note!

Perform a reset only if the equipment no longer responds to user controls.

To perform a reset, press the button **[RESET]** located on the left of the front panel (refer to Figure 1).

3.3. Reset and Restore the Factory Settings



Note!

Perform a reset and restore the factory settings only if the equipment no longer responds to user controls.

1. Press **[RESET]** + **[DISP]** simultaneously for 5 seconds
2. Release the button **[RESET]** while holding the key **[DISP]** until 3 beeps are heard.

3.4. Equipment Firmware Version

To display the equipment firmware version:

1. Select a source other than "Radio"
2. Enter the "General Settings" menu (refer to Section 10)
3. Press and hold the key **[1]**. The firmware version is displayed in the LCD screen.

3.5. Media Player Firmware Version

1. Select the source "USB" or "SD Card"
2. Enter the "General Settings" menu (refer to Section 10)
3. To display the firmware version of the **USB player**:
 - press and hold the key **[2]** to display the firmware type BE
 - press and hold the key **[3]** to display the firmware type FE
4. To display the firmware version of the **SD Card player**:
 - press and hold the key **[4]** to display the firmware type BE
 - press and hold the key **[5]** to display the firmware type FE
5. When finished, press **[VOLUME]** to return to the "General Settings" menu.

4. AM/FM Radio

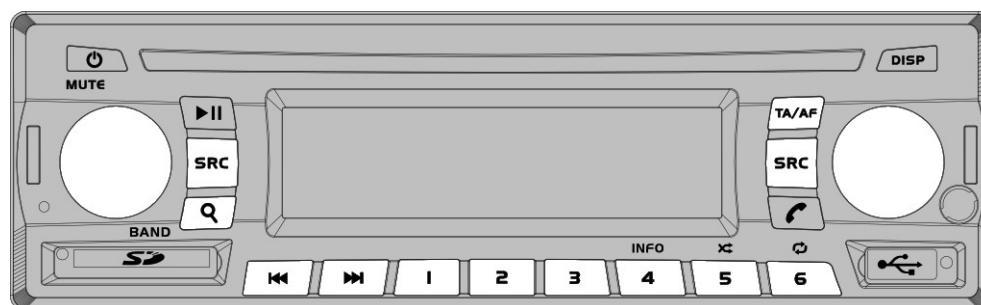


Figure 5 – Radio Controls

4.1. Select a Frequency Band

With the Radio source selected, press **[c]** / **[BAND]** repeatedly to select a frequency band: FM1, FM2, FM3, AM1 or AM2.



Note!

Each frequency band has associated 6 memory positions.

4.2. Tune a Radio Station

With the Radio source selected:

- **Auto tuning (SEEK):** press **[d/e]** to tune automatically to the next or previous station to the current frequency.
- **Manual tuning (TUNE):** press and hold **[d/e]** to activate the manual tuning. Press **[d/e]** repeatedly (or press **[<< >>]** on the remote control) to adjust the tuning frequency.

4.3. Radio Stations Continuous Scan

With the Radio source selected:

1. Press and hold **[c]** / **[BAND]** to start the continuous scan
When the equipment finds a valid radio station, the scan stops for a few seconds.
2. Press **[c]** / **[BAND]** to stop the scan.



Note!

If the **TA** function is activated, the radio will only stop at those stations broadcasting traffic news and information.

4.4. Tune and Memorize the Best Stations

This function performs a scan of the selected frequency band and memorizes the best stations in the 6-position memory.

With the source Radio selected:

1. Press and hold **[SRC]** to access the "Radio Settings" menu
2. Press the **[VOLUME]** knob repeatedly to select "**AUTO MEM SCAN**"
3. Press **[c]** to start the stations scan and memorization process

Press **[c]** to stop the process at any time.

4.5. Radio Stations Memory Management

With the Radio source selected:

- **Memorize a tuned radio station:** press and hold any memory button **[1]** to **[6]** (or the keys **[1]** to **[6]** on the remote control).
- **Select a memorized radio station:** press **[1]** to **[6]** (or the keys **[1]** to **[6]** on the remote control) corresponding to the memory where the radio station is memorized.



Note!

LCD screen will display the number of the selected memory along with the frequency of the radio station.

4.6. RDS Functions

With the Radio source selected and the RDS system activated (refer to Section 4.7, **Radio Settings**):

- **AF Function:** press **[TA/AF]** to activate or deactivate automatic retune to alternative frequencies.
- **TA Function:** press and hold **[TA/AF]** to enable or disable the search for stations broadcasting news and traffic announcements.

"AF" and/or "TA" icons light up on the LCD screen when the corresponding function is ON.



RDS System

The radio data system (RDS) provides additional information relating to an FM radio station.



AF Function

In case of loss of signal from a FM station, the **AF** function searches for an alternative frequency for the same FM station. If after a while, it has not located an alternative frequency the search stops automatically.



TA Function

It allows searching a station broadcasting traffic news or announcements.

4.7. Radio Settings

With the Radio source selected:

1. Press and hold **[SRC]** to enter the menu
2. Press the **[VOLUME]** knob repeatedly to select the desired parameter
3. Turn the **[VOLUME]** knob (o press the **[VOLUME]** keys on the remote control) to select the value for the desired function. Refer to Table 2
4. If not operation is done for a few seconds, the equipment automatically returns to the main screen.

Table 2 – Radio Settings

PARAMETER	VALUE	DESCRIPTION
AUTO MEM SCAN	-	Search and automatically memorizes the six radio stations with better signal. Press [c] / [BAND] to start a search.
REGION	ASIA / EUROPA / AMERICA	Select the geographic area.
RDS SYSTEM	ON/OFF	Activate or deactivate the RDS system
AF REGIONAL	ON	Automatic retuning between regional stations only.
	OFF	Automatic retuning between any station, regional or national.

4.8. How the Reception of Radio Works

AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then received by the radio and sent to the vehicle speakers.

When a strong radio signals has reached the vehicle, the precise engineering of your radio system ensures high quality reproduction. However, in some cases the signal coming to the vehicle is not strong and clear. This can be due to factors such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.

AM signal reception is usually better than FM reception. This is because AM radio waves are transmitted at low frequency. These long, low frequency radio waves can follow the curvature of the earth rather than travelling straight out into the ionosphere. In addition, they curve around obstructions so that they can provide better signal coverage. Because of this, clear AM broadcasts can be received at greater distances than FM broadcasts.

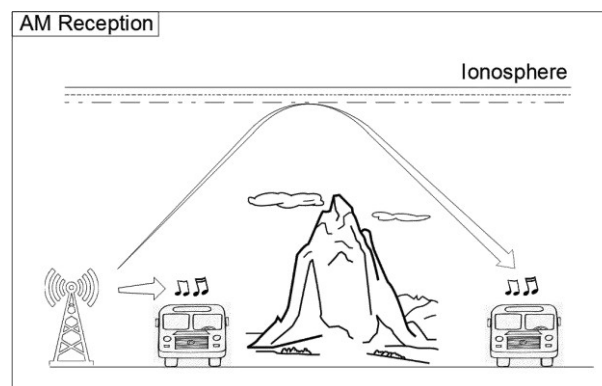


Figure 6 – AM Reception

FM broadcasts are transmitted at high frequency and do not bend to follow the earth's surface. Because of this, FM broadcasts generally begin to fade at short distances from the station. Also, FM signals are easily affected by buildings, mountains, or other obstructions.

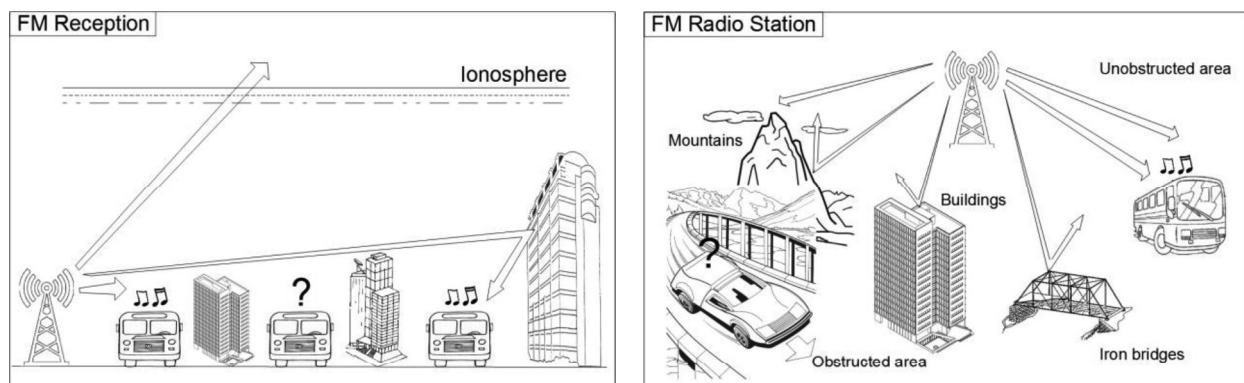


Figure 7 – FM Reception

These can result in certain listening conditions, which might lead you to believe a problem exists with your radio. The following conditions are normal and do not indicate radio trouble:

- Fading – As the vehicle moves away from the radio station, the signal will weaken and sound will begin to fade. When this occurs, it is suggested that you select another stronger station.
- Flutter/Static – Weak FM signals or large obstructions between the transmitter and the radio can disturb the signal causing static or fluttering noises to occur. Reducing the treble level may lessen this effect until the disturbance clears.
- Station Swapping – As a FM signal weakens, another more powerful signal near the same frequency may begin to play. This is because the radio is designed to lock onto the clearest signal. If this occurs, select another station with a stronger signal.
- Multi-Path Cancellation – Radio signals being received from several directions can cause distortion or fluttering. This can be caused by a direct and a reflected signal from the same station or by signals from two stations with close frequencies. If this occurs, select another station until the condition has passed.

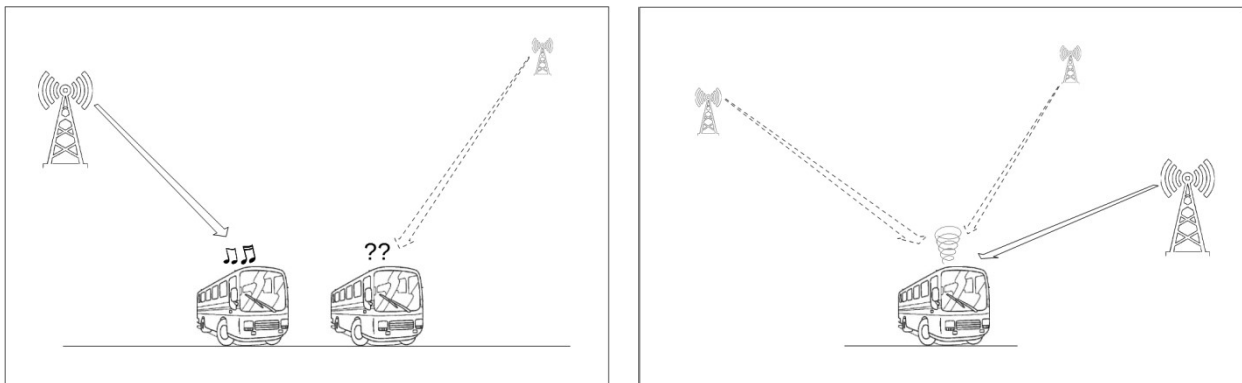


Figure 8 – FM Reception Conditions

RDS function retunes to **alternative frequencies (AF)** allowing the above situations to be managed automatically by selecting alternative frequencies for the same station to minimize cases of poor reception. However, if a station does not provide the information within the required RDS (alternative frequencies list) or does not have adequate coverage of radio stations, the radio will not be able to act in situations of poor reception described above.

5. USB / SD Card

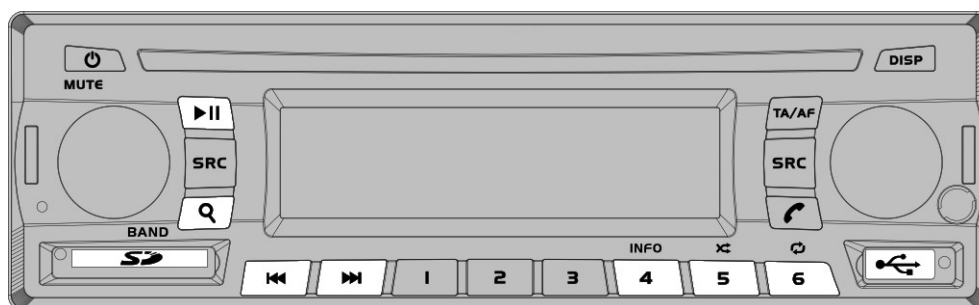


Figure 9 – USB / SD Card Controls

5.1. Play the Content on a Device

With the USB or SD Card source selected:

1. Insert a **SD card**, connect a **USB** storage device or a **USB Apple device**
2. Playback automatically starts, playing the first element of the device or the last item played
3. Control the playback as indicated in the Table 3.

Table 3 – USB / SD Card Playback Controls

TO	ACTION
Play / pause playback	Press [b].
Reverse / Forward to the next item	Press [d/e].
Change playback speed	<ul style="list-style-type: none"> ▪ Press and hold [d/e] or press [◀▶] on the remote control: (x2). ▪ Press [d/e] or press [◀▶] on the remote control: (x4), (x8), (x16).
Activate / deactivate random play	Press [g] (or press and hold [MODE] on the remote control).
Change playback mode	Press [h] (or press [MODE] on the remote control) to switch between the different repeat modes: <ul style="list-style-type: none"> ▪ REP 1: repeat the current file. ▪ REP DIR: repeat all files in the current folder. ▪ REP ALL: repeat all files in the current device.
Change the LCD screen information	Press [INFO] to switch between the different information modes: <ul style="list-style-type: none"> ▪ File name and time of track. ▪ File name and time to finish. ▪ Folder and file name.

5.2. Content Selection

With the USB or SD Card source selected:

1. Press **[c]** (or **[MENU]** on the remote control) to enter the content selection menu
2. Press **[c]** repeatedly (or **[MENU]** on the remote control) to surf through the various levels of the contents of the device:
 - **USB and SD Card:**
 1. List of files
 2. List of folders
 3. Type of content to play: AUDIO, IMAGE or VIDEO.
 - **iPod:** multimedia library
3. Use **[d/e]** keys and/or the **[VOLUME]** knob, (or **[▲▶▼◀]** keys on the remote control) to select the level and file to be played.



Note!

The control **[VOLUME]** will be only available if there is an external screen associated to the driver zone and the parameter "**Driver Monitor**" is activated.

4. Press **[b]** / **[VOLUME]** (or **[ENTER]** on the remote control) to play the selected item.



Note!

By default, the LCD screen displays the content selection menu of the equipment. If an external screen is available, associated with an area (driver or passenger) where the USB or SD Card is selected, the content selection menu is displayed on that screen.



Note!

To use an external screen associated with the driver zone, it is necessary to enable the "**Driver Monitor**" parameter (refer to Section 10, **General Settings**)



Note!

If playing a video and an external screen associated with the driver zone is available, the driver screen will turn off after a few seconds from the start of playback.



Note!

The selection of content from a device type iPod is only possible if an external display associated to any area is available or if it is allowed by the device interface.

5.3. USB / SD Card Settings

With the USB or SD Card source selected in the **passenger zone**, using the remote control and visualizing the passenger screen:

1. Press **[SETUP]** to enter the settings menu
2. Use **[▲▶▼◀]** and **[ENTER]** key to surf the different settings. Refer to Table 4 for the available settings
3. Press **[SETUP]** again to exit the settings menu.



Note!

USB and SD Card sources have independent settings.

The settings menu is only accessible via the remote control and the passenger screen.

Table 4 – AV Playback Settings

MENU	PARAMETER	VALUE	FACTORY VALUE
SYSTEM SETUP	TV SYSTEM	NTSC / PAL / AUTO	PAL
	SCREEN SAVER	ON / OFF	OFF
	VIDEO	INTERLACE-YUV / TV-RGB / P-SCAN YPBPR / PC-VGA / S-VIDEO / CVBS	S-VIDEO
	TV TYPE	4:3PS / 4:3LB / 16:9	4:3PS
	PASSWORD	---	UNDEFINED
	RATING	1 KID SAFE / 2 G / 3 PG / 4 PG13 / 5PG-R / 6 R / 7 NC-17 / 8 ADULT	8 ADULT
	DEFAULT	RESTORE (RESTORE THE FACTORY VALUES)	---
LANGUAGE SETUP	OSD LANGUAGE	ENGLISH / GERMAN / SPANISH / FRENCH / PORTUGUESE / ITALIAN / RUSSIAN / CHINESE	ENGLISH
	AUDIO LANG	CHINESE / ENGLISH / JAPANESE / FRENCH / SPANISH / PORTUGUESE / LATIN / GERMAN	ENGLISH
	SUBTITLE LANG	CHINESE / ENGLISH / JAPANESE / FRENCH / SPANISH / PORTUGUESE GERMAN / OFF	ENGLISH
	MENU LANG	CHINESE / ENGLISH / JAPANESE / FRENCH / SPANISH / PORTUGUESE / GERMAN / LATIN	ENGLISH
	DIVX® VOD	DIVX LICENSE	---

MENU	PARAMETER	VALUE	FACTORY VALUE
AUDIO SETUP	AUDIO OUT	SPDIF/OFF - SPDIF/RAW - SPDIF/PCM	SPDIF/PCM
	MIC SETUP	AUTO / OFF	AUTO
	KEY	-4 to +4	0
	ECHO	OFF / 2 to 8	4
	MIC VOL	OFF / 2 to 8	6
VIDEO SETUP	BRIGHTNESS	0 to 12	6
	CONTRAST	0 to 12	6
	HUE	-6 to +6	0
	SATURATION	0 to 12	0
	SHARPNESS	0 to 8	0
SPEAKER SETUP	DOWNMIX	LT / RT – STEREO – VSS - OFF	VSS
	SUBWOOFER	OFF / ON	ON
	CENTER DELAY	0 to 4	0
	REAR DELAY	0 to 12	6
	FRONT	LARGE / SMALL	LARGE
DIGITAL SETUP	OP MODE	LINE OUT / RF REMOD	LINE OUT
	DYNAMIC RANGE	OFF – 2/8 – 4/8 – 6/8 – FULL	OFF
	DUAL MONO	STEREO / MONO L / MONO R/ MIX MONO	MIX MONO

6. Hands-Free and Wireless Audio

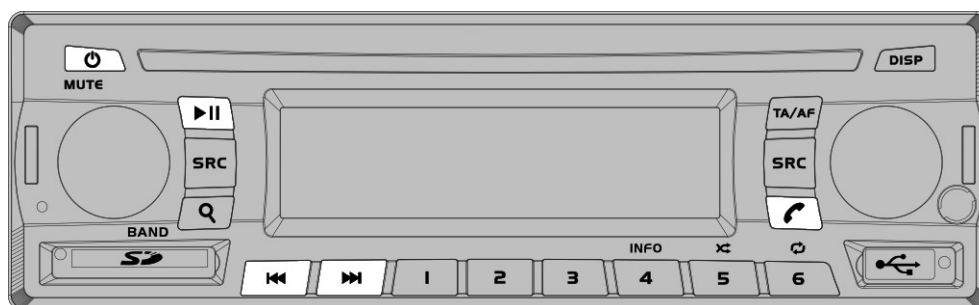


Figure 10 – Hands-Free and Wireless Audio Controls



Note!

The Hands-Free and Wireless Audio service is only available for the driver zone.



Note!

The source Driver/Guide Microphone overrides the Hands-Free service. If an incoming or outgoing call takes place, the driver zone will not switch to Hands-Free mode while any microphone is active.

During a call, it is not possible to switch to other source in the driver zone.

6.1. Pair a Device

With the equipment powered on:

1. Activate the Bluetooth function of the device to pair (for instance a smartphone)
2. From the menu of the device to pair, search for devices
3. Select **"ACTIA BT"**
4. The icon "i" on the LCD screen indicates that pairing has been successful.

6.2. Unpair a Device

To remove pairing with a device:

1. From any source, press and hold [f] for 3 seconds
2. Two seconds later, the icon "i" on the LCD screen will turn off indicating that there is no paired device.

6.3. Use of the Microphone



CAUTION

When activate the Driver microphone during a call, the conversation may be transmitted to other diffusion systems to which the microphone is connected.

No need to activate the Driver microphone to talk during a phone call.



Note

The driver microphone must be an ACTIA or compatible model.

6.4. Make a Phone Call

With a paired phone:

1. Enter the desired number from the phone and initiate the call
2. The equipment automatically switches to **Hands-Free mode in the driver zone** and a ringtone is audible from the speakers of that zone
3. **Talk into the Driver microphone**
4. To end the call, press **[f]**



Redialling

To make a phone call to the last number dialled; press **[f]** twice consecutively from any source.

6.5. Receive a Phone Call

With a paired phone:

1. The equipment automatically switches to the **Hands-Free mode in the driver zone** when there is an incoming call, and a ringtone is audible from the speakers of that zone
2. To answer the call press **[f]** or the **[VOLUME]** knob of the driver zone
To reject the call press **[a]**
3. **Talk into the Driver microphone**
4. To end the call press **[f]** or the **[VOLUME]** knob of the driver zone.

6.6. Playback of Wireless Audio

With the Wireless Audio source selected and a paired audio player device, control the playback as indicated in the Table 5.

Table 5 – Wireless Audio Playback Controls

TO	ACTION
Play / Pause playback	Press [b].
Reverse / Forward to other element	Press [d/e].
Fast Reverse / Forward	Press and hold [d/e].

7. Aux

To play contents from an auxiliary source, select the auxiliary source:

1. Turn on the device connected to the auxiliary input
2. Start and control the playback from the auxiliary device.



Note!

If an auxiliary video source is available, activate the passenger zone screens by pressing **[DISP]** or **[DISPLAY]** on the remote control.

8. Microphone

From any zone or source:

1. Turn on the microphone to activate the MIC source
2. Turn the **[VOLUME]** knob or press the **[VOLUME]** keys on the remote control to adjust the microphone level
3. Turn off the microphone to return to the previous source.



Note!

The driver microphone overrides the microphone guide.
It is not possible to use two microphones simultaneously to talk to the passengers.



Note!

If the equipment is off and a microphone is activated, it will automatically turn on and select the corresponding microphone source.

When turning off the microphone, the equipment will turn off again.

9. Audio Settings (Any Source)

From any source:

1. Press and hold **[VOLUME]** or **[SEL]** on the remote control to enter the menu
2. Press **[VOLUME]** repeatedly or **[SEL]** on the remote control, to select the desired parameter
3. Turn the **[VOLUME]** knob or press **[VOLUME]** keys on the remote control to select the value of a parameter. Refer to Table 6
4. If no operation is selected for a few seconds, the equipment will automatically return to the main screen.

Table 6 – Audio Settings

PARAMETER	VALUE	DESCRIPTION
BALANCE	-15 to +15	Adjust the output balance of the left and right speakers.
BASS	-15 to +15	Adjust the gain of the bass frequency range.
MIDDLE	-15 to +15	Adjust the gain of the middle frequency range.
TREBLE	-15 to +15	Adjust the gain of the treble frequency range.
EQUALIZER	ROCK – OPERA – POP VOICE – FLAT	Select between different pre-defined equalization profiles.



Note!

When select a pre-defined equalization profile, the BASS, MIDDLE and TREBLE parameters change depending on the profile.

10. General Settings

To access the general settings menu of the equipment:

1. Press and hold **[b]** to access the general settings menu
2. Press repeatedly **[VOLUME]** or **[SEL]** on the remote control, to select the desired parameter
3. Turn the **[VOLUME]** knob (or press the **[VOLUME]** keys on the remote control) to adjust the value of a parameter. Refer to Table 7
4. If no operation is selected for a few seconds, the equipment will automatically return to the main screen.

Table 7 – General Settings

PARAMETER	VALUE	DESCRIPTION
Stby AV Bypass	ON (default value)	With the equipment off. Redirection of the AV auxiliary input to the passenger auxiliary output activated .
	OFF	With the equipment off. Redirection of the AV auxiliary input to the passenger auxiliary output deactivated .
Driver Monitor	ON	The driver area has one monitor.
	OFF (default value)	The driver area has no monitor.
Guide MIC Zone	DRV + PSG (default value)	The guide microphone is heard in driver and passenger areas.
	PSG	The guide microphone is only heard in the passenger area.
P. Monitor Time	0 seconds (default value)	Passenger monitors ON/OFF time (open/close).

11. Maintenance

11.1. Cleaning the Equipment

Wipe off dirt on the front plate with a dry silicon or soft cloth.

11.2. Slots of SD Card and USB Port

- Whenever possible, keep the slots with the covers.
- Remove the cap carefully when using these slots. Do not pull the cover.

12. Troubleshooting

SYMPTOM	SOLUTION
Sound cannot be heard in a particular zone.	<ul style="list-style-type: none"> Make sure that the source is selected to play in the area. Make sure that the Mute function is not activated. Adjust the volume to an appropriate level. If the source is USB, SD Card or Audio Wireless, verify that the reproduction is in PLAY status.
The functions of the radio AF and TA are not activated.	<ul style="list-style-type: none"> Make sure that RDS is activated in the radio settings.
The AF function does not work correctly, do not make jumps to alternative frequencies.	<ul style="list-style-type: none"> Make sure that the AF function is active. The AF icon must be on the LCD screen. Make sure the AF REGIONAL parameter settings radio.
The guide microphone is not heard in the driver area.	Make sure that the microphone is set to mode "DRV + PSG".
When you select a video from a USB device or SD Card, this does not play and skip to the next video.	Make sure the video player supports the video format.
When you turn on the equipment with a USB or SD Card device connected, the connected device is not recognized.	Some USB or SD Card devices do not allow detection at start-up. Remove the device and reinsert.
The equipment does not respond to the remote control.	Check remote control battery. Replace if necessary.
The equipment does not respond to any button.	<ul style="list-style-type: none"> Reset the equipment according to Section 3.2. Reset of the Equipment. If the problem keeps on, reset and restore the configuration according to Section 3.3. Reset and Restore the Factory Settings. If the problem is not solved, contact the technical service.

13. Technical Specifications

13.1. Electrical Specifications

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPICAL	MAX	UNITS
POWER SUPPLY INTERFACES						
POWER SUPPLY INPUT						
VSS	DC supply voltage	-	11	24	30	V
ISS	DC supply load current	VSS=24V	-	-	10	A
		VSS=14V	-	-	10	A
ISS STBY	DC supply standby load current	ACC=0V	-	-	30	mA
ANTENNA POWER OUTPUT						
Vo	DC output voltage	Output enabled	11.8	12	12.3	V
		Output disabled	-	0	-	V
Io	DC output current	Output enabled	-	-	300	mA
RELAY POWER OUTPUT						
Vo	DC output voltage	VSS=24V Output enabled	-	0	-	V
		VSS=24V Output disabled	-	Z	-	V
Io	DC output current	VSS=24V Output enabled	-	-	200	mA
USB POWER OUTPUT						
Vo	DC output voltage	-	-	5	-	V
Io	DC output current	-	-	-	1.2	A
INPUTS						
MICROPHONE INPUT						
Vin	Input peak voltage	f=1kHz Zo=600R	-	5.5	-	mVp
Zin	Output impedance	-	2	-	-	kohm
BW	Bandwidth	A=±3dB	200	-	4000	Hz

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPICAL	MAX	UNITS
STEREO AUDIO INPUT (AUDIO LINE-IN)						
V _{in}	Input peak-to-peak voltage	f=1kHz Z _o =600R	-	-	3.3	V _{pp}
Z _{in}	Output impedance	-	-	27	-	kohm
BW	Bandwidth	A=±3dB	20	-	20000	Hz
OUTPUTS						
STEREO AUDIO OUTPUT (AUDIO LINE-OUT)						
V _o	Output rms voltage	f=1kHz Z _{in} =10Kohm	-	0.5	0.7	VRMS
Z _o	Output impedance	-	-	-	600	ohm
BW	Bandwidth	A=±3dB	20	-	20000	Hz
SNR	Signal Noise Ratio	f=1kHz Z _{in} =10Kohm	80	-	-	dB
THD	Total Harmonic Distortion	f=1kHz Z _{in} =10Kohm	-	-	0.5	%
RADIO STEREO AUDIO OUTPUT (RADIO LINE-OUT)						
V _o	Output rms voltage	f=1kHz Z _{in} =10Kohm	-	0.5	0.7	VRMS
Z _o	Output impedance	-	-	-	600	ohm
BW	Bandwidth	A=±3dB	300	-	15000	Hz
SNR	Signal Noise Ratio	f=1kHz Z _{in} =10Kohm	80	-	-	dB
THD	Total Harmonic Distortion	f=1kHz Z _{in} =10Kohm	-	-	0.5	%
SPEAKER OUTPUTS (POWER AUDIO OUTPUT)						
Z _L	Speaker load	VSS=28V	4	-	-	ohm
P _o	Output RMS power	f=1kHz Z _L =4ohm THD=1% VSS=28V	-	15	-	W
		f=1kHz Z _L =4ohm THD=10% VSS=28V	-	20	-	W
		f=1kHz Z _L =4ohm THD=10% VSS=14V	-	10	-	W

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPICAL	MAX	UNITS
XT	Crosstalk between channels	f=1kHz ZL=4ohm THD=1% VSS=28V	60	-	-	dB
BW	Bandwidth	A=±3dB	20	-	20000	Hz
VIDEO INTERFACES						
CBVS VIDEO OUTPUT						
Vo	Output peak-to-peak voltage	Zin=75ohm	-	-	1	Vpp
Zo	Output impedance	-	-	75	-	ohm
Hres	Horizontal resolution	NTSC	-	480	-	lines
		PAL	-	576	-	lines
SNR	Signal Noise Ratio	Zin=75ohm	60	-	-	dB
CBVS VIDEO INPUT						
Vin	Output peak-to-peak voltage	Zo=75ohm	0.8	-	1.2	Vpp
Zin	Output impedance	-	-	75	-	ohm
Hres	Horizontal resolution	NTSC	-	480	-	lines
		PAL	-	576	-	lines
DIGITAL INTERFACES						
ACC AND DIMMING INPUTS						
VIH	High level input voltage	State=input active	11	-	32	V
VIL	Low level input voltage	State=input inactive	0	-	7.5	V
lin	Leakage Current	State=input active	-	-	5	mA
MUTE INPUT						
VIH	High level input voltage	State=input inactive	11	-	32	V
VIL	Low level input voltage	State=input active	0	-	0.6	V
lin	Input Leakage Current	State=input inactive	-	-	5	mA

13.2. Mechanical Specifications

PARAMETER	VALUE
Installation Size (W x H x D)	182 mm x 53 mm x 160 mm
Maximum weight	1.2 kg

13.3. Playable Files

13.3.1. Video

CONTAINER	VIDEO CODEC	AUDIO CODEC	RESOLUTION
AVI (.avi, divx)	MP4V DivX® MPEG-1 MSVC	Dolby Digital(AC3) WMA/PCM/LPCM AAC LC (2ch) MPEG-Audio (MP1/MP2/MP3)	720*480/576 (30fps)
MPG (.mpg/.mpeg)	MPEG-1/MPEG-2	Dolby Digital(AC3) LPCM MPEG-Audio (MP1/MP2/MP3)	720*480/576 (30fps)
DAT (.dat)	MPEG-1/MPEG-2	Dolby Digital(AC3) LPCM MPEG-Audio (MP1/MP2/MP3)	720*480/576 (30fps)
FLV (.flv)	H.263	LPCM/MP3	720*480/576(30fps)
RMVB (.rm/.rmvb/.rmv/ra)	RV8/9/10	COOK AAC LC (2ch)	1280*720 (30fps)
VOB (.vob)	MPEG-1/MPEG-2	Dolby Digital(AC3)	720*480/576 (30fps)
MP4/MOV (.mp4/.mov/.divx)	DivX® MP4V	Dolby Digital(AC3) WMA/LPCM AAC LC (2ch) MPEG-Audio (MP1/MP2/MP3) uLaw/aLaw	720*480/576 (30fps)
OGGVorbis (.ogg)	---	OGG	Does not support the following formats: 1. OGG with Video 2. OGG with Audio Vorbis outside format. 3. AVI with Vorbis. It supports the following specifications: Sampling rate (sampling rate): 8, 11.025, 16, 22.05, 24, 32, 44.1, 48 KHz. Bitrate: 45 ~ 500Kbps. Many versions Vorbis have the yyyy / mm / dd format to distinguish the version. From 2001 onwards the previous version is not supported.
ASF (.asf)		WMA	Only supports WMA, including specifically WMA7, WMA8, WMA9 (CBR, VBR) (Only supports 353 format) Sample rate: 8K ~ 48KHz. Bitrate: 16kbps ~ 320kbps.

13.3.2. Audio

CODEC	BIT RATE	SAMPLING RATE
MP3	16kbps ~320kbps	8K~48KHz
WMA7, WMA8, WMA9 (only CBR VBR) (only supports 353)	16kbps ~320kbps	8K~48KHz
AAC (only supports AAC LC (2ch))	16kbps ~320kbps	8K~48KHz

13.3.3. Picture

FORMAT	SUPPORT MODE	RESOLUTION
Jpeg	<ul style="list-style-type: none"> based en DCT sequential based en DCT progressive 	<ul style="list-style-type: none"> Colour model: YCbCr / YIQ colour map Grayscale images: Does not support CMYK
Bitmap	---	Bit depth to 1/4/8/24 BMP supports uncompressed format.

13.4. Apple Compatible Devices

DEVICE	MODEL	GENERATION / VERSION
iPod	1. iPod Touch	5 ^a - 4 ^a - 3 ^a - 2 ^a - 1 ^a
	2. iPod Classic	---
	3. iPod with video	---
	4. iPod Nano	7 ^a - 6 ^a - 5 ^a - 4 ^a - 3 ^a - 2 ^a - 1 ^a
iPhone	---	5C - 5S - 5 - 4S - 3GS - 3G
iPad	5. iPad	4 ^a - 3 ^a - 2 ^a (iPad 2) - 1 ^a
	6. iPad Air	---
	7. iPad Mini	2 ^a - 1 ^a

13.5. FM Tuner

PARAMETER	VALUE
Frequency span	76.0 MHz to 107.9 MHz
Supported regions	EUROPE, ASIA, AMERICA
Usable sensitivity (Signal/Noise ratio = 30dB)	4dBuV / 75ohm

13.6. AM Tuner

PARAMETER	VALUE
Frequency span	522 KHz to 1710 KHz
Supported regions	EUROPE, ASIA, AMERICA
Usable sensitivity (Signal/Noise ratio = 20dB)	28dBuV / 75ohm

13.7. USB Devices

PARAMETER	VALUE
USB standard	USB 1.1, USB 2.0 (High speed)
Maximum current input	5V CC 1.2 A
File system	FAT16/32

13.8. SD Card Devices

PARAMETER	VALUE
SD Card standard	SD, SDHC (128GB maximum)
File system	FAT16/32

13.9. Wireless Connection

PARAMETER	VALUE
Standard	Bluetooth V4.0
Frequencies range	2,402 GHz to 2,480 GHz
Communication maximum range	In a straight line, approximately 10m
Profile	HFP (Hands-free profile) A2DP (Audio Advanced Distribution Profile) AVRCP (Audio Video Remote Control Profile)
Number of devices	8 (the last device has the priority)

14. Package Contents

- ACT550 equipment.
- Dashboard mounting bracket, fixing screws and nuts to chassis, bolts, rubber cap, and removal tools.
- Remote controller.
- ISO A-B wiring kit.
- Expansion cable of infrared sensor.
- DIN-ISO antenna adapter.
- User manual.
- Interface diagram.



Note!

Removal tools are specifically designed for this function. Keep the release key in a safe place as you may need it in the future to remove the unit from the vehicle.

15. Installation and Connection

Use the interface diagram included in the package.

WARNING

Choose the mounting location carefully so that the equipment will not interfere with the normal driving functions of the driver.

CAUTION

Avoid installing the equipment where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.

CAUTION

Use only the supplied mounting hardware for a safe and secure installation.



ACTIA DO BRASIL Indústria e Comércio Ltda.

Avenida São Paulo, 555
Bairro São Geraldo, Porto Alegre, RS, Brasil
CEP: 90230-161
Telefone: +55 51 3358-0200
www.actia.com.br



ACTIA DE MÉXICO S.A. de C.V.

Avenida Central 176
Nueva Industrial Vallejo, Gustavo A. Madero
07700 Ciudad de México, D.F.
Tel: 01 55 5119 2350
www.actia.com.mx



ACTIA SYSTEMS, S.A.U.

Polígono Industrial LOS OLIVOS,
C/ Calidad 66, 28906 Getafe, Madrid - Spain
Tel: +34 91 665 26 26
www.actiasystems.com