

TABLE OF CONTENTS

INTRODUCTION	3
HOW THE RADAR SYSTEM WORKS	3
TARGET ZONES	3
DEFAULT KEY BINDS	4
STARTING THE SYSTEM	4
OPERATOR MENU	5
DISPLAY OPERATION	6
RADAR DISPLAY PANEL	6
FUNCTIONS OF THE DISPLAY UNIT	6
ICON DEFINITIONS	6
ARROW DIRECTION DEFINITIONS	7
REMOTE CONTROL USAGE	8
REMOTE BUTTON FUNCTIONS	8
CONFIGURING THE POLICE RADIO	10
FASTER SPEED DISPLAY	10
SAME LANE SENSITIVITY ADJUSTMENT	10
OPPOSITE LANE SENSITIVITY ADJUSTMENT	10
BEEP AUDIO VOLUME	10
VOICE ENUNCIATOR VOLUME	10
PLATE READER VOLUME	11
UNIT OF MEASUREMENT	11
FAST SPEED LOCK	11
FAST SPEED LOCK LIMIT	11

INTRODUCTION

The police Radio (Police Advanced Radar System) is a realistic police radar that takes heavy inspiration from the real Stalker DSR 2X radar system. It includes a plethora of features from the DSR 2X such as the new operator menu, to improve the realism and experience whilst using the newest instalment from the collection of Police radar systems. Previously with Police, vehicle speeds were only displayed in the target window, with no priority to certain vehicles (such as large and slower vehicles, or smaller and faster vehicles). The Police radio tracks both large and faster, smaller targets and displays the speeds of both in the target windows, meaning the radar can track 4 different speeds with both antennas turned on and transmitting. At the press of a button, the operator can engage 'key lock' that prevents any of the key binds from working, helping to eliminate control conflicts. The system also has a plate reader built in that scans front and rear plates.

HOW THE RADAR SYSTEM WORKS

When the radar display is enabled and either/both antennas are transmitting, the system sends out a signal that acquires the speed and direction of travel from vehicles in the radar's line of sight. All the collected data is then sent to the radar's processing core that calculates which vehicle speed needs to be displayed in which box, the direction a vehicle is going relative to the operator's vehicle is also displayed next to the target windows. As the new system splits up larger and smaller but faster vehicles, the operator can more easily distinguish which vehicle in their view is being displayed on the radar's interface.

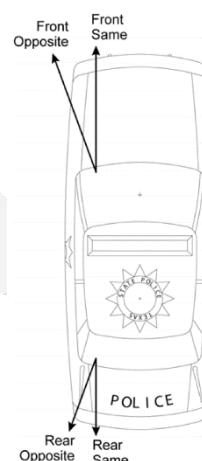
TARGET ZONES

Throughout this manual there are multiple references to the different areas of traffic that the radar system monitors, they are known as target zones. The Police Radio can monitor up to two zones at a time whilst both antennas are transmitting. The four target zones are:

- Front Same
- Front Opposite
- Rear Same
- Rear Opposite

Due to the way that the radar system works, it treats the opposite target zones like lanes instead of a diagonal signal being emitted from the antennas.

As of the current version of the radar system (1.0.0), only two target zones can be monitored, in a future update, the system will be able to monitor four target zones up to the operator's discretion.



DEFAULT KEY BINDS

Below are a list of the default keybinds that come with the Police Radio. Please note, if you would like to change a keybind to a different key, open the pause menu, go to settings, then “Key Bindings”, then “FiveM”. There you will be able to change any of the actions to a different key.

Action	Key
Open remote	F5
Close remote	ESC or right mouse button
Lock front antenna	Numpad 8
Lock rear antenna	Numpad 5
Lock front plate	Numpad 9
Lock rear plate	Numpad 6
Toggle keylock	L

Although most of the actions listed above are self-explanatory, the keylock action may not be. When the operator presses the key bind to toggle the keylock, all the radar’s key binds seize to work until the operator toggles the keylock again. This functionality is like the keylock found in Lt. Caine’s ELS.

STARTING THE SYSTEM

At first glance, the Police Radio may seem quite daunting, but the system itself is in fact quite simple. Below are the steps which the operator should take to get the radar system and the antennas up and running.

1. Press the key to open the remote (default: F5)
2. Click the button at the top labelled “Toggle Display”
3. The radar interface should now be displayed, click the button on the radar labelled “PWR”
4. With the remote still open, click the button labelled “XMIT” for one or both antennas
5. Now that the antennas are in transmit mode, click the “SAME” or “OPP” button for one or both antennas

Following these steps will result in the radar system becoming operational and the antennas detecting vehicle speeds.

OPERATOR MENU

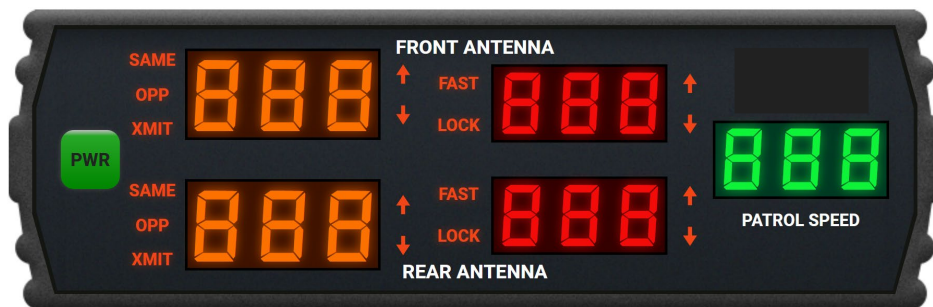
The Police Radio features an operator menu that allows for configuration of a variety of settings for the radar system. To access the operator menu, the remote control and radar interface must be displayed, press the MENU button on the remote to access the menu. Subsequent presses of the MENU button step through the other options available within the menu. To change the value of one of the currently displayed settings, you must use the buttons on the remote with the arrows.

		FEATURE Iterate by pressing MENU button	SETTINGS Change using the ↓ and ↑ buttons
Menu position	Description	Fast Window	Patrol Window (bold is factory default)
1	Fast speed display On/Off	<i>FAS</i>	<u>On</u> /OFF
2	Same Lane sensitivity	<i>SL SEN</i>	1, 2, 3 , 4, 5
3	Opposite Lane sensitivity	<i>OP SEN</i>	1, 2, 3 , 4, 5
4	Beep volume	<i>bEE P</i>	OFF, 1, 2, 3 , 4, 5
5	Voice annunciator volume	<i>VOI CE</i>	OFF, 1, 2, 3 , 4, 5
6	Plate reader volume	<i>PLT RUD</i>	OFF, 1, 2, 3 , 4, 5
7	Units display	<i>Un t ES</i>	<u>USA</u> , <u>Int</u>
8 (only displayed if enabled in config)	Fast limit locking	<i>FAS Loc</i>	<u>On</u> /OFF
9 (only displayed if enabled in config)	Fast speed limit for locking	<i>FAS SPD</i>	5-200, default: 60

Once you have finished in the operator menu, press any of the mode buttons on the remote to exit the menu and return to normal radar operation.

DISPLAY OPERATION

RADAR DISPLAY PANEL



The display of the Police Radio has been completely redone to look more realistic whilst also giving the operator more information about what the radar system is currently doing.

FUNCTIONS OF THE DISPLAY UNIT

- POWER BUTTON:** The **POWER** button is a toggle switch that supplies the unit with power, the unit does not come on automatically with the patrol vehicle and must be manually turned on.
- TARGET WINDOWS:** The two orange windows on the left are the target windows. The top window displays the strongest speed for the front antenna, and the bottom window displays the strongest speed for the rear antenna. When a speed is displayed in one of the target windows, an arrow to the right of the window lets the operator know the direction the target vehicle is traveling relative to the patrol vehicle.
- FAST/MIDDLE WINDOWS:** The two red windows in the middle are multi-purpose windows, when the target windows are displaying a strong speed, the fast windows will display the faster target speed if there is one. The two icons to the left of the windows, **FAST** and **LOCK**, are used to indicate the state of the middle windows. Whilst a speed is displayed in either the target or middle windows, if the operator presses the front or rear lock key, a speed will then be locked into the relevant middle window, with the **LOCK** icon also lighting up. Every time an operator locks a speed, it will be followed by a two-word voice enunciator that lets the operator know the antenna/direction, these include: *FRONT/AWAY*, *FRONT/CLOSING*, *REAR/AWAY*, *REAR/CLOSING*.
- PATROL WINDOW:** The green window to the right is the patrol window, whilst the patrol vehicle is stationary, the symbol "[]" will be displayed. When the patrol vehicle is moving, the speed will be displayed.

ICON DEFINITIONS

- XMIT:** When the **XMIT** icon is illuminated, it means that the associated antenna is transmitting. When it is off, the fast window will display HLD, indicating the associated antenna is in hold mode and is not transmitting.
- SAME:** When the **SAME** icon is illuminated, it means that the associated antenna is tracking targets in the same lane *Target Zone*.
- OPP:** When the **OPP** icon is illuminated, it means that the associated antenna is tracking targets in the opposite lane *Target Zone*.
- FAST:** When the **FAST** icon is illuminated, the associated fast target window will display faster targets captured by the radar. This will only be lit if the fast display is enabled in the operator menu. When the **FAST** and **LOCK** icons are illuminated, it indicates that a faster target speed has been locked.

LOCK: When the **LOCK** icon is illuminated, it means that the associated fast target window contains a locked speed. If the **FAST** icon is also illuminated, it means that the locked speed is a fast target speed.

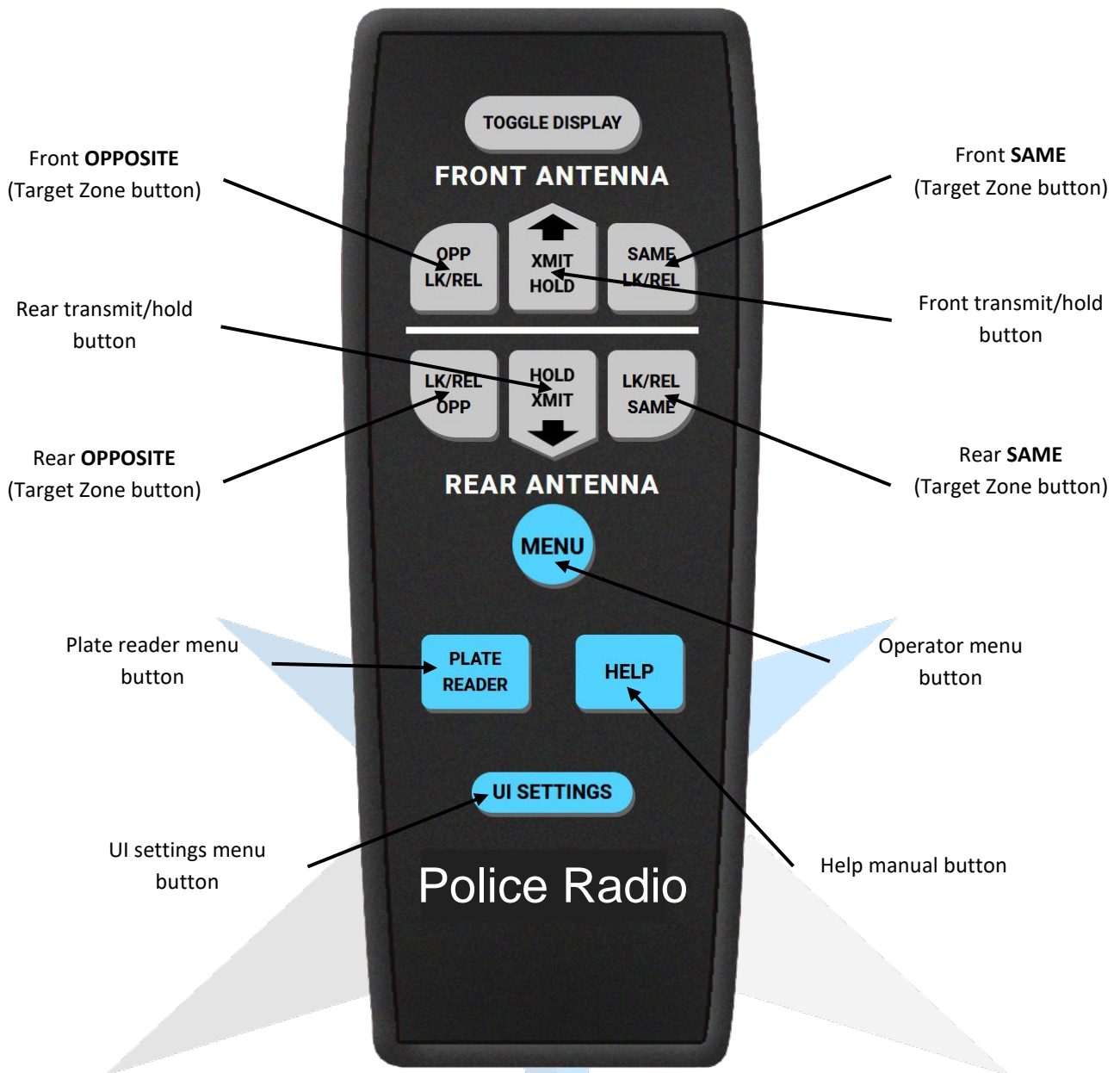
↑ OR ↓: A ↑ or ↓ illuminated next to one of the target speed windows indicates the relative direction of travel of the target displayed in the associated target window. The table below defines what the arrows mean for the front and rear antenna.

ARROW DIRECTION DEFINITIONS

ANTENNA	DIRECTION	ARROW
Front	Closing	↓
	Away	↑
Rear	Closing	↑
	Away	↓



REMOTE CONTROL USAGE



REMOTE BUTTON FUNCTIONS

Toggle Display:

This button is used to toggle the display state of the radar unit. Once the display has been enabled, the green button labelled "PWR" must be pressed to power on the unit. Pressing the toggle display button when the unit is powered on will not power the unit off.

XMIT | HOLD:

The **XMIT | HOLD** button is the primary way of making the associated antenna work, when pressed, it either places the antenna into transmit mode (**XMIT**) or hold mode (**HOLD**). When the antenna is placed into transmit mode, the **XMIT** icon will be illuminated. When the antenna is placed into hold mode, the **XMIT** icon will be switched off and the fast target window will display "HLd".

↑ and ↓:

The **↑ (up) and ↓ (down)** buttons (which are on the **XMIT | HOLD** buttons) are used when in the operator menu to change the value of the currently displayed option.

SAME:	The SAME button places the associated antenna into the SAME mode, this means the antenna will scan targets in the Same Lane Target Zone. A mode can be set without the antenna being in transmit mode.
OPP:	The OPP button places the associated antenna into the OPP mode, this means the antenna will scan targets in the Opposite Lane Target Zone. A mode can be set without the antenna being in transmit mode.
MENU:	The MENU button opens the operator menu, when in the menu, the ↑ and ↓ buttons are used to change the value of the currently displayed option, with subsequent presses of the menu button changing the current setting that is displayed. To exit the operator menu, press any of the mode buttons.
PLATE READER:	The PLATE READER button opens the plate reader menu, once the menu is open you can toggle the display of the reader, as well as set a BOLO plate for the system to look out for. The plate reader doesn't require power to run, and therefore can just have the display toggled and it will work.
HELP:	The HELP button opens a window that links to the help manual stored externally, this manual describes everything in detail. The close button at the bottom can be used to close the manual.
UI SETTINGS:	The UI SETTINGS button opens the UI settings menu, from within this menu you can change the UI scale of the radar, remote, and the plate reader. There is also a slider which allows you to change the safezone size, creating an invisible border around the edge of your screen. Once you have set the UI how you want, press the close button at the bottom.



CONFIGURING THE POLICE RADIO

The Police Radio includes a fully working operator menu that allows the operator to configure individual options of the radar unit. It can be accessed by pressing the **MENU** button, the first option in the list of options is displayed. Each time the **MENU** button is pressed, the next option and its setting are displayed, to change a setting, use the **↑** and **↓** arrows.

Operator Menu Options

Display

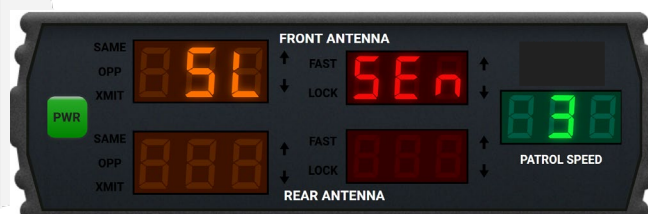
FASTER SPEED DISPLAY

The first press of the **MENU** button will load the menu and display this option. With faster target speed display on, the fast target windows will display the faster speed calculated by the unit. When it is off, the unit will only display strong target speeds. Press any of the four Target Zone buttons to exit the Operator Menu.



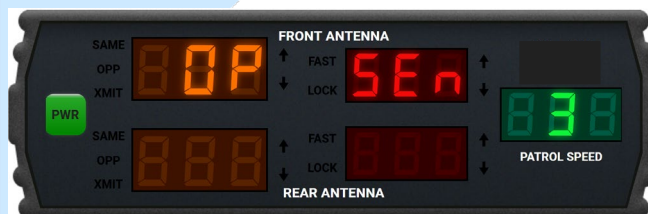
SAME LANE SENSITIVITY ADJUSTMENT

This option allows you to change the sensitivity (range) for the Same Lane mode. The **↑** and **↓** buttons are used to cycle through the 5 settings: 1, 2, 3, 4, and 5. Lower values are more appropriate for driving on the highway, with higher values being better for monitoring traffic on long roads. Press any of the four Target Zone buttons to exit the Operator Menu.



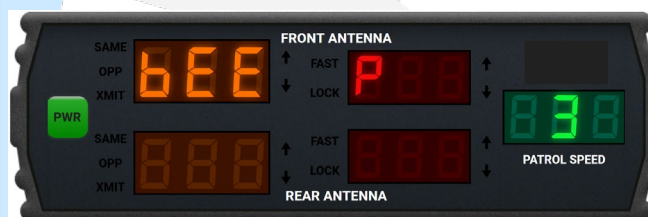
OPPOSITE LANE SENSITIVITY ADJUSTMENT

This option allows you to change the sensitivity (range) for the Opposite Lane mode. The **↑** and **↓** buttons are used to cycle through the 5 settings: 1, 2, 3, 4, and 5. Lower values are more appropriate for driving on the highway, with higher values being better for monitoring traffic on long roads. Press any of the four Target Zone buttons to exit the Operator Menu.



BEEP AUDIO VOLUME

This option allows you to change the volume of the audible beeps from the unit, the **↑** and **↓** buttons are used to cycle through the 6 settings: Off, 1, 2, 3, 4, and 5. The beep tones are off when set to Off and loudest when set to 5. Press any of the four Target Zone buttons to exit the Operator Menu.



VOICE ENUNCIATOR VOLUME

This option allows you to change the volume of the verbal lock enunciator, the **↑** and **↓** buttons are used to cycle through the 6 settings: Off, 1, 2, 3, 4, and 5. The voice enunciator is off when set to Off and loudest when set to 5. Press any of the four Target Zone buttons to exit the Operator Menu.

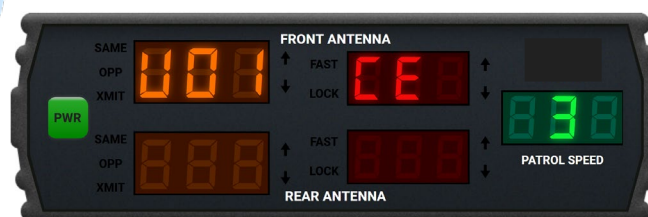


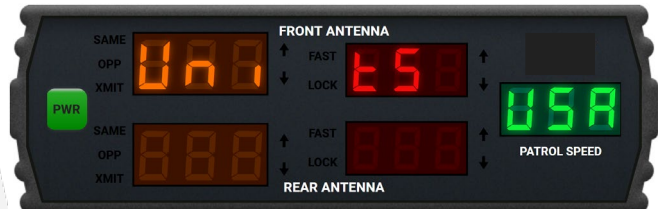
PLATE READER VOLUME

This option allows you to change the volume of the plate reader, the ↑ and ↓ buttons are used to cycle through the 6 settings: Off, 1, 2, 3, 4, and 5. The plate reader audio is off when set to Off and loudest when set to 5. Press any of the four Target Zone buttons to exit the Operator Menu.



UNIT OF MEASUREMENT

This option allows you to change the unit of measurement, as the Police Radio can use either MPH or KMH for all calculations and display. The ↑ and ↓ buttons are used to cycle through the 2 settings: USA (MPH) and INT (KMH). Press any of the four Target Zone buttons to exit the Operator Menu.



FAST SPEED LOCK

Note: this option will only be displayed if the server owner has enabled it in the config file. This option allows you to change the fast speed lock state, with it set to on, the radar will automatically lock a speed if it is above the limit set in the next option. When it is off, the radar will function like normal. Press any of the four Target Zone buttons to exit the Operator Menu.



FAST SPEED LOCK LIMIT

Note: this option will only be displayed if the server owner has enabled it in the config file. This option allows you to change the speed limit required for a vehicle to pass before it is automatically locked by the radar. The ↑ and ↓ buttons are used to cycle through the settings and range from 5 – 200 in steps of 5. Press any of the four Target Zone buttons to exit the Operator Menu.

