

Set Mode

The VR-500 "Set" mode is an easy-to-use Menu system, which allows customization of many VR-500 configuration parameters.

Use the following "generic" procedure to engage the "Set" (Menu) mode:

- ① Set the radio to the VFO mode by pressing the [CLR(P.SET)] key.
- ② Press the [ENT(SET/NAME)] key while pressing the [FUNC] key to activate the "Set" (Menu) mode. The Menu Item number and a brief title for the Menu Item will appear on the display.
- ③ Rotate the **DIAL** knob to select the Menu Item you wish to work on.
- ④ Rotate the **DIAL** knob *while pressing the [FUNC] key* to change the value or condition for the selected Menu Item.
- ⑤ Press the [CLR(P.SET)] key to save the new setting and exit to normal operation.

Set Item 1 [Receive Mode]

Function: Select the Receiving mode

Available Values: AUTO/ MANUAL

AUTO: The VR-500 automatically selects the optimum mode according to the frequency band where the frequency is set.

MANUAL: You select the receiving mode manually by repeatedly pressing the [0(MODE)] key while pressing the [FUNC] key.

Default: AUTO

Set Item 2 [Lock Mode]

Function: Enable/disable the DIAL Lock during keypad lock feature active

Available Values: Key: Only the keypad's keys will be locked out.

Dial/Key: The keypad's keys and the DIAL will be locked out.

Default: Key+Dial

Set Item 3 [Key Lamp]

Function: Enable/disable the keypad's illumination when the LCD's Lamp is active.

Available Values: ALL: Both the keypad and the LCD will be illuminated.

Display: Just the LCD will be illuminated.

Default: ALL

Set Item 4 [Lamp Mode]

Function: Select the LCD Lamp Mode

Available Values: AUTO/TOGGLE

AUTO: Pressing the [9(LAMP)] key while pressing the [FUNC] key illuminates the LCD/Keypad for 5 seconds.

TOGGLE: Pressing the [9(LAMP)] key while pressing the [FUNC] key toggles LCD/Keypad lamp On/Off.

Default: AUTO

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Set Item 5 [Save]

- Function:** Select the Battery Save Interval ("sleep" ratio)
Available Values: OFF/1:4(1sec)/1:12(3sec)/1:20(5sec)/1:2887sec/1:36(9sec)
Default: 1:4(1sec)

Note that the VR-500 receiving time is 250 ms when the Battery Save on.

Set Item 6 [OFF Timer]

- Function:** Set the "Sleep Timer" Time
Available Values: OFF/30/60/90 sec
Default: OFF

Set Item 7 [ON Timer]

- Function:** Set the ON Timer time
Available Values: OFF ~ 24:00
Default: OFF

The ON timer turns on the radio at the programmed time (30 min/step).

Note that this is not the time of day when the radio will turn on; it is the number of hours and minutes until the radio turns on.

Set Item 8 [Scan Resume]

- Function:** Set the Delay time for scan
Available Values: 1sec ~ 12sec
Default: 5 sec

This Set Item defines the length of time the scanner will hold on a frequency.

Set Item 9 [Contrast]

- Function:** Setting of the Display Contrast Level
Available Values: 1/14 ~ 14/14
Default: 7/14

Set Item 10 [key Beep]

- Function:** Enable/disable the Keypad Beeper
Available Values: ON/OFF
Default: ON

Set Item 11 [LANGUAGE]

- Function:** Display the language for Set mode
Available Values: ENGLISH (stationary value)

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Set Item 12 [Search Mode]

Function: Select the VFO Scan Type

Available Values: VFO/LIMIT

VFO: The VFO scanner activates the frequencies between the 0.1 MHz and 1300 MHz.

LIMIT: The VFO scanner activates the frequencies between the pre-programmed frequencies.

Default: VFO

Set Item 13 [SRCH Memory]

Function: Appear the frequency pair in the "Search Band Memory"

① Recall Set Item 13, then rotate the DIAL while pressing the [FUNC] key.

② Appear the frequency pair in the "Search Band Memory."

③ Press the [CLR(P.SET)] to return to the Set Item selection.

Set Item 14 [Monitor]

Function: Enable/disable the AF Power Amplifier when the squelch off.

Available Values: OFF/ON

Default: OFF

Note that you can reduce the squelch on/off (pop) noise when this feature on.

Set Item 15 [Find Name]

Function: Looking up a word in a memory tag

Set Item 16 [Mode Scan]

Function: Select the Operating Mode for scanning

Available Values: OFF/NFM/WFM/AM/USB/LSB/CW

Default: OFF

Set Item 17 [Bank Scan]

Function: Enable/disable the Memory Bank Scanning.

Available Values: OFF/ON

Default: OFF

Set Item 18 [Bank Link]

Function: Set the Bank Link Feature

Set Item 19 [RF Squelch]

Function: Adjust the RF SQL threshold level

Available Values: OFF/1 ~ 9

Default: OFF

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Set Item 20 [Smart Search]

- Function:** Select the Smart Memory Channel
Available Values: 11 CH/21 CH/31 CH/41 CH
Default: 31 CH

Set Item 21 [SSRCH Mode]

- Function:** Select the Smart Search operating mode
Available Values: SINGLE/CONTINUE

SINGLE: The VR-500 sweeps once in each direction starting on the current frequency. All channels where activity is present are loaded into the Smart Search memories. Whether or not all memories are filled, the search stops after one sweep in each direction.

CONTINUE: The VR-500 makes a sweep in each direction as with the "SINGLE" mode, but if all channels not filled after the first sweep, the VR-500 continues sweeping until they all filled.

- Default:** SINGLE

Set Item 22 [Flex Step]

- Function:** Enable/disable the frequency step
Available Values: ON/OFF
Default: OFF

OFF: When change the receiving mode, the VFO frequency changes remaining.

Example: Now, the radio is 14.0125 MHz (USB), change the receiving mode change to NFM from LSB. Rotate the DIAL knob, the frequency changes

14.0125 MHz → 14.1125 MHz → 14.2125 MHz → 14.3125 MHz ...

ON: When change the receiving mode, the VFO frequency increment according to the receiving mode.

Example: Now, the radio is 14.0125 MHz (USB), change the receiving mode change to NFM from LSB. Rotate the DIAL knob, the frequency changes

14.0125 MHz → 14.1000 MHz → 14.2000 MHz → 14.3000 MHz ...

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Set Item 23 [Opening Bell]

Function: Select the Opening beep sound when the VR-500's power is on

Available Values: OFF/1/2/3

- OFF: No beep
- 1: Sounds "Pi"
- 2: Sounds "Po-Pi"
- 3: Sounds "Pi-Pi"

Default: OFF

Set Item 24 [Opening Msg]

Function: Select the Opening Message when the VR-500's power is on

Available Values: OFF/User/Default

OFF:

User:

Default: Appear the "YAESU VR-500" on the display when the VR-500's power is on.

Default: Default

Set Item 25 [Msg Edit]

Function: Program the Opening Message

Opening Message Programming:

- ① After selecting Set Item 25, rotate the **DIAL** knob one click clockwise while pressing the **[FUNC]** key to enable programming of the opening message. You will notice the first entry's place blink.
- ② Rotate the **DIAL** knob to select the character type between the "ABC" and "123."
- ③ Press the keyboard to enter the desired letter or number.

Example 1: If you select the character type to "ABC" in the previous step, press the **[2(MW/MC)]** key repeatedly to toggle among the six characters:

A → B → C → a → b → c → A ...

Example 2: If you select the character type to "123" in the previous step, press the **[2(MW/MC)]** key to enter the digit "2".

- ④ Rotate the **DIAL** knob clockwise while pressing the **[FUNC]** key to move the next character.
- ⑤ Repeat steps ② to ④ to program the remaining letters or numbers of the desired message. A total of eight characters may be used in the creation of a message.
- ⑥ When you have completed the creation of the message, press the **[ENT(SET)]** key momentarily to save the message.

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Set Item 26 [Clear Bank]

- Function:** Clear (mask) the all Memory Channels in the desired Memory Bank
To do this:
- ① After selecting Set Item 26, rotate the **DIAL** knob one click clockwise while pressing the **[FUNC]** key to enable the Memory Bank Clear.
 - ② Key in the Memory Bank number (one digit) to be cleared (masked) from the keypad.
 - ③ Appear "Clear ..." message few seconds on the display. Now, Memory Bank Clear is complete.
 - ④ Press the **[ENT(SET)]** key while pressing the **[FUNC]** key to exit to the normal operation.

Set Item 27 [Copy Bank]

- Function:** Copy and paste the all Memory Channels in the desired Memory Bank
To do this:
- ① After selecting Set Item 27, rotate the **DIAL** knob one click clockwise while pressing the **[FUNC]** key to enable memory clearing.
 - ② Key in the *Source* Memory Bank number, then key the *Destination* Memory Bank number (each one digit) from the keypad.
 - ③ Memory Bank Copy is now complete.
 - ④ Press the **[ENT(SET)]** key while pressing the **[FUNC]** key to exit to the normal operation.

Set Item 28 [Swap Banks]

- Function:** Swap the all Memory Channels in the desired Memory Bank.
To do this:
- ① After selecting Set Item 28, rotate the **DIAL** knob one click clockwise while pressing the **[FUNC]** key to enable the Memory Bank Swap.
 - ② Key in the two Memory Bank number (each one digit) to be swapped from the keypad.
 - ③ Memory Bank Swap is now complete.
 - ④ Press the **[ENT(SET)]** key while pressing the **[FUNC]** key to exit to the normal operation.

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Set Item 29 [Vacant Memory]

Function: Appear the number of the Vacant Memory Channel in the each Memory Bank or all Memories.

To do this:

- ① After selecting Set Item 29, rotate the **DIAL** knob one click clockwise while pressing the **[FUNC]** key to appear the number of the Vacant Memory Channel in the each Memory Bank or all Memories.
- ② Press the **[ENT(SET)]** key while pressing the **[FUNC]** key to exit to the normal operation.

Set Item 30 [Copy Channel]

Function: Copy and paste the desired memory channel

To do this:

- ① After selecting Set Item 30, rotate the **DIAL** knob one click clockwise while pressing the **[FUNC]** key to enable the Memory Channel Copy.
- ② Key in the *Source* Memory Channel number (three digits) from the keypad, then key in the *Destination* Memory Channel number (three digits) from the keypad.
- ③ Press the **[ENT(SET)]** key while pressing the **[FUNC]** key to exit to the normal operation.

Set Item 31 [Swap Channels]

Function: Swap the Memory Channel data between the desired Memories.

To do this:

- ① After selecting Set Item 28, rotate the **DIAL** knob one click clockwise while pressing the **[FUNC]** key to enable the Memory Channel Swap.
- ② Key in the two Memory Channel number (each three digit) to be swapped from the keypad.
- ③ Memory Channel Swap is now complete.
- ④ Press the **[ENT(SET)]** key while pressing the **[FUNC]** key to exit to the normal operation.

Set Item 32 [Meter Symbol]

Function: Select the S meter symbol

Available Values: 000 / 000 / >>>

Default: 000

Specifications

Frequency Rang:	0.1000 MHz ~ 1299.9995 MHz (Cellular Blocked)		
Receiving Mode:	NFM/WFM/AM/SSB/CW		
Antenna Impedance:	50 Ω , unbalanced, BNC receptacle		
Channel Step:	0.05/0.1/1/5/6.25/9/10/12.5/15/20/30/50/100 kHz		
Operating Temp.:	-10 °C ~ +50 °C		
Sensitivity:	0.1 ~ 5 MHz;	AM	1.5 μ V (10 dB S/N)
		SSB/CW	0.6 μ V (10 dB S/N)
	5 ~ 160 MHz;	AM	1.0 μ V (10 dB S/N)
		SSB/CW	0.5 μ V (10 dB S/N)
		NFM	0.5 μ V (12dB SINAD)
	160 ~ 370 MHz;	WFM	1.5 μ V (12 dB SINAD)
		AM	1.0 μ V (10 dB S/N)
		SSB/CW	0.5 μ V (10 dB S/N)
	370 ~ 520 MHz;	NFM	0.5 μ V (12dB SINAD)
		WFM	1.5 μ V (12 dB SINAD)
		SSB/CW	0.5 μ V (10 dB S/N)
	520 ~ 1300 MHz;	NFM	0.5 μ V (12dB SINAD)
		WFM	1.8 μ V (12 dB SINAD)
		SSB/CW	0.8 μ V (10 dB S/N)
		NFM	1.2 μ V (12dB SINAD)
WFM		3.0 μ V (12 dB SINAD)	
Memory Channel:	Regular Memory; 1000 CH Skip Memory; 100 CH Search Band Memory; 10 CH Dual Receive Channel Memory; 10 CH Priority Memory Channel; 1 CH		
Supply Voltage:	2.2 V DC ~ 3.5 V DC Inner Battery (Nominal: 3.0 V DC) 9.0 V DC ~ 16.0 V DC (EXT DC)		
Current Consumption:	115 mA (Receive) 55 mA (Standby, Saver off) 15 mA (Standby, Saver on)		
AF Output:	90 mW (@Battery) 125 mW (@EXT DC)		
Case Size:	58 x 95 x 30 mm (W x H x D) w/o knob		
Weight:	Approx. 220 g w/battery & antenna		

Specifications are subject to change without notice.



CAUTION!

Changes or modifications to this device not expressly approved by Yaesu Musen could void the user's authorization to operate this device.

1. Changes or modifications to this device not expressly approved by Yaesu Musen could void the user's authorization to operate this device.
2. 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 including interference that may cause undesired operation.
3. The scanning receiver in this equipment is incapable of tuning, or readily being altered, by the User to operate within the frequency bands allocated to the Domestic public Cellular Telecommunications Service in Part 22.

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesirable operation of the device.