KODEN CVS-1420 Series Quick Reference

(1) Gain setting
H : High frequency
L : Low frequency

*The number shows the present set value of gain.

(2) Range mode
R:M : Manual
R:A : Auto range
R:AS : Auto shift

(3) Power Voltage

(4) Alarm Set Status
← Arrival alarm
← XTE alarm
← Water temp alarm
← Speed alarm

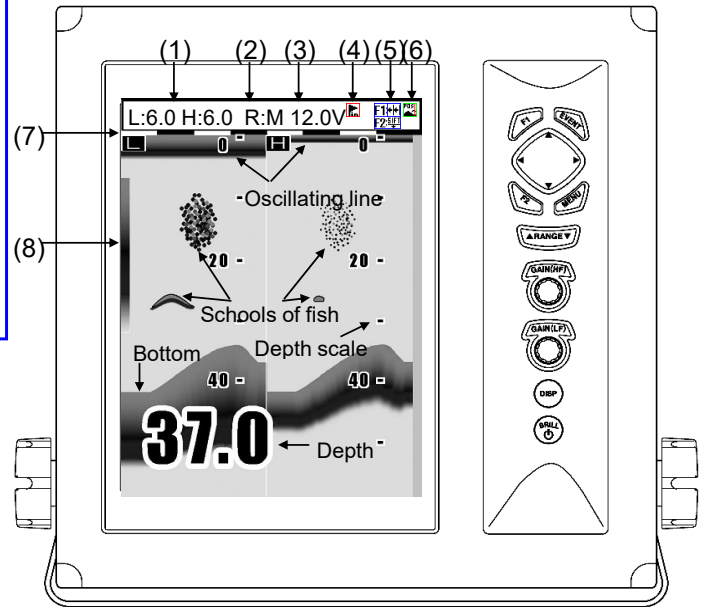**(5) Status of [F1]/[F2] key assignment**
← Image speed
← Interference rejection
← Color rejection
← Noise reduction
← Shift
← Zoom range
← Zoom start
← A scope
← White line
← Background color

(6) Status of [EVENT] key assignment
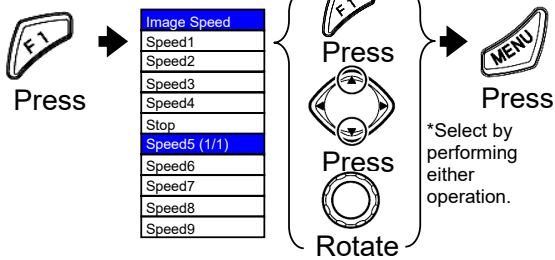← Store position
← Store image
← Fishing hot spot

(7) Time mark

(8) Rainbow pattern

L:6.0 H:6.0 R:M 12.0V

- Oscillating line
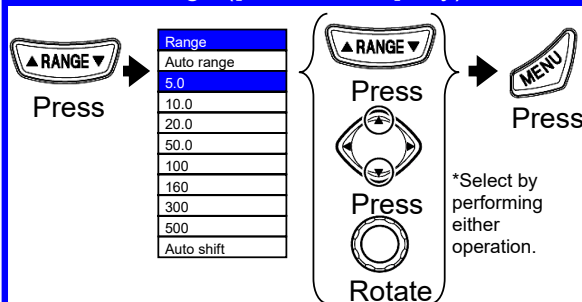- Schools of fish
- Bottom
- Depth scale
- Depth
- 37.0

Select the setting of preset function ([F1]key / [F2]key)

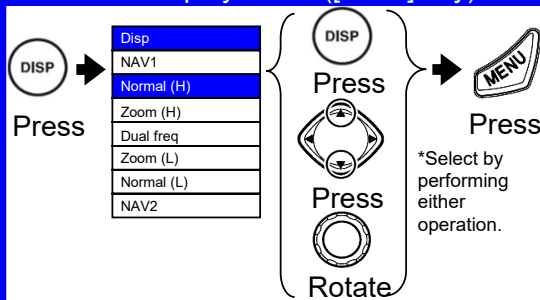The function differs depending on the [F1/F2 key setting].
In case of [Image speed]:

F1 Press →

Image Speed
Speed1
Speed2
Speed3
Speed4
Stop
Speed5 (1/1)
Speed6
Speed7
Speed8
Speed9

F1 Press / Press / Rotate → MENU Press

*Select by performing either operation.

*By continuously pressing the [F1]/[F2] key, a function assigned to each key can be selected.

Select the range ([▲RANGE▼] key)

▲RANGE▼ Press →
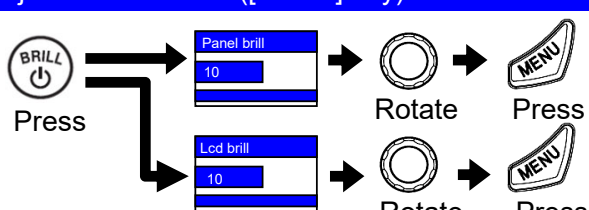
Range
Auto range
5.0
10.0
20.0
50.0
100
160
300
500
Auto shift

▲RANGE▼ Press / Press / Rotate → MENU Press

*Select by performing either operation.

Select the display menu ([DISP] key)

DISP Press →

Disp
NAV1
Normal (H)
Zoom (H)
Dual freq
Zoom (L)
Normal (L)
NAV2

DISP Press / Press / Rotate → MENU Press

*Select by performing either operation.

Preset the destination / Preset the image ([EVENT] key)

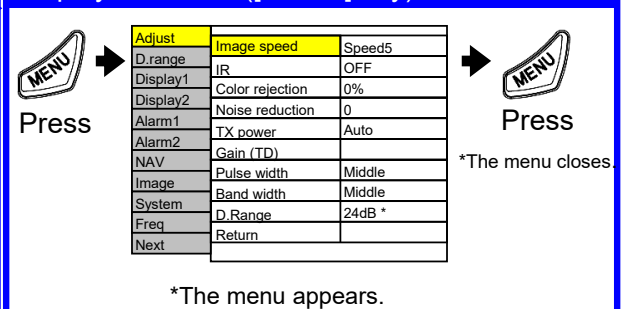Depending on the [EVENT key set], the function differs.

In case of [Store pos]:

EVENT Press → Store the destination.

In case of [Store image]:
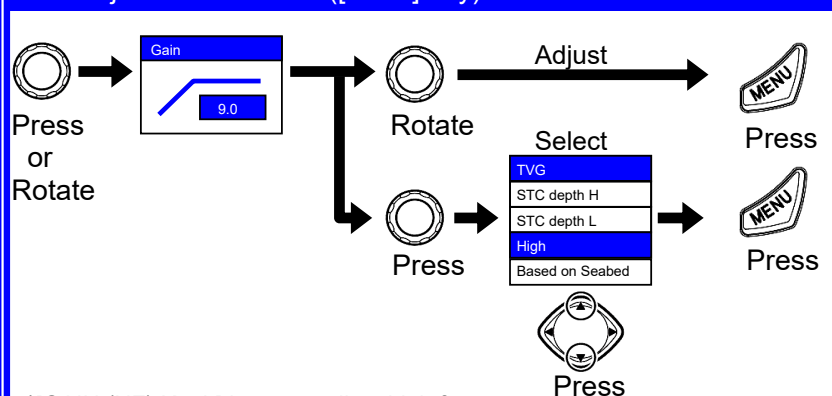
EVENT Press → Store the image of echo sounder.

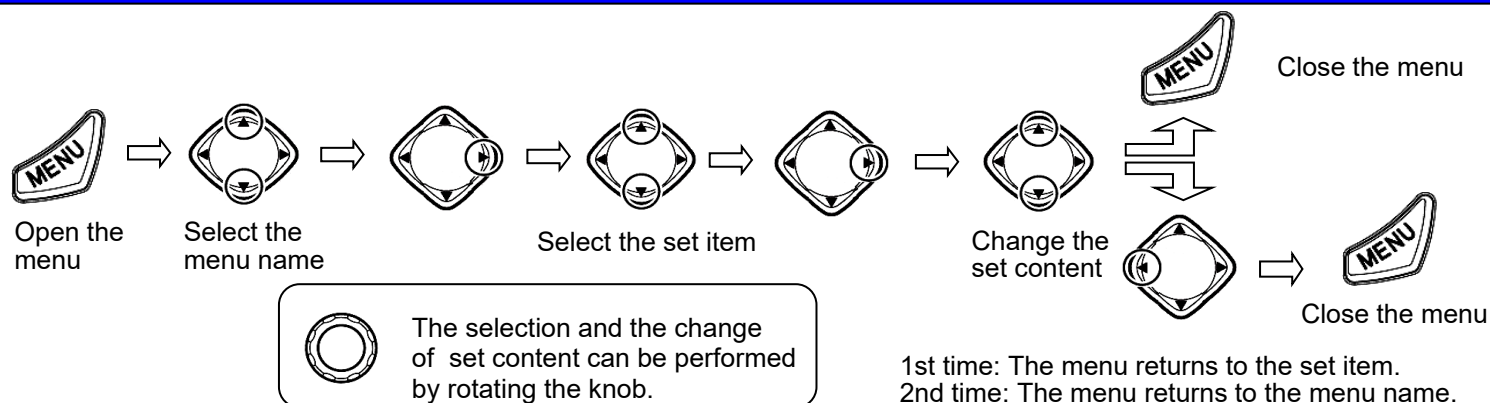*The navigation data such as GPS is necessary.

Display the menu ([MENU] key)

MENU Press →

Adjust	Image speed	Speed5
D.range	IR	OFF
Display1	Color rejection	0%
Display2	Noise reduction	0
Alarm1	TX power	Auto
Alarm2	Gain (TD)	
NAV	Pulse width	Middle
Image	Band width	Middle
System	D.Range	24dB *
Freq	Return	
Next		

MENU Press

*The menu closes.

*The menu appears.

Power on/Power off (【BRILL】 key)

Power on.
BRILL Press

Power off.
BRILL Keep pressing for more than 3 seconds.

Adjust the brilliance ([BRILL] key)

BRILL Press →

Panel brill
10

→ Rotate → MENU Press

Lcd brill
10

→ Rotate → MENU Press

*Every time when pressing the [Brill] key, the item is alternately displayed.

Gain adjust / TVG select ([Knob] key)

Press or Rotate →

Gain
9.0

Rotate → Adjust → MENU Press

Press →

TVG
STC depth H
STC depth L
High
Based on Seabed

→ MENU Press

Press

*[GAIN (HF) Knob] key can adjust high frequency.
*[GAIN (LF) Knob] key can adjust low frequency.
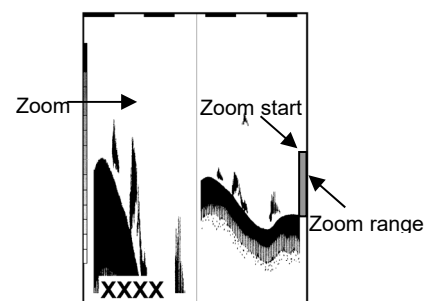
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How to operate the menu

Open the menu → Select the menu name → Select the set item → Change the set content

The selection and the change of set content can be performed by rotating the knob.

Close the menu

1st time: The menu returns to the set item.
2nd time: The menu returns to the menu name.

Close the menu

Function of Adjust Set Menu

Adjust		
D.range	Image speed	Speed5 (1)
Display1	IR	Strong (2)
Display2	Color rejection	0% (3)
Alarm1	Noise reduction	0 (4)
Alarm2	TX power	Auto (5)
NAV	Gain (TD)	(6)
Image	Pulse width	Middle
System	Band width	Middle
Freq	D.Range	24dB *
Next	Return	

(1) Change the image speed.
The image speed becomes slow in order of [Speed1]=>[Speed2]=>•••=>[Speed9].
When [stop] is selected, the image stops.
(2) It rejects the interference with other echo sounder.
When [Strong] is selected, the effect of rejection is strong.
(3) It rejects the weak noise appeared on the display.
The greater the number is, the stronger the rejection becomes.
(4) It rejects the speck-like noise appeared on the entire image.
The greater the number is, the stronger the rejection becomes.
(5) It sets the TX power.
(6) The reduction in sensitivity due to signal attenuation in Gain (TD)
use and so on can be corrected.
You can make numerical value bigger at the time of lack of sensitivity.

Function of display range set menu

Adjust		
D.range	Shift step	1m (1)
Display1	Zoom type	BTM. (2)
Display2	Zoom range	10.0m (3)
Alarm1	Zoom start	0m (4)
Alarm2	Disp width	Center (5)
NAV	Range preset	(6)
Image	Return	
System		
Freq		
Next		

(1) It sets the quantity of movement of shift.
(2) It selects the kind of the zoom type.
(3) It sets the range of image selected in (2).
(4) It sets the zoom starting position of image set in (2).
(5) It selects the disp width.
(6) It presets the range.

Zoom   Zoom start
Zoom range
XXXX

Preset of Range

Registration of the range can be easily changed with following operation. Preset the set value suitable for your purpose.

Press

Range
Auto range
5.0
10.0
20.0
50.0
100
160
300
500
Auto shift

Press
Press
Rotate
*Select by performing either operation.

Press

Range
5.0

Press
Rotate
*Select by performing either operation.

Press

Press

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