5.5.4 SETUP Menu

To be used for various settings and switching of the screen

•Common operations for the SETUP menu (Up to the point when "SETUP" menu is selected from the main menu)

Press the "MENU" key and select "SETUP" from the displayed 4 main menus using the left-right cursor. (The contents of the selected MENU will appear on a pull-down display in accordance with the movement of the left-right cursor.)

MENU •••→• Left/Right

(Select SETUP)

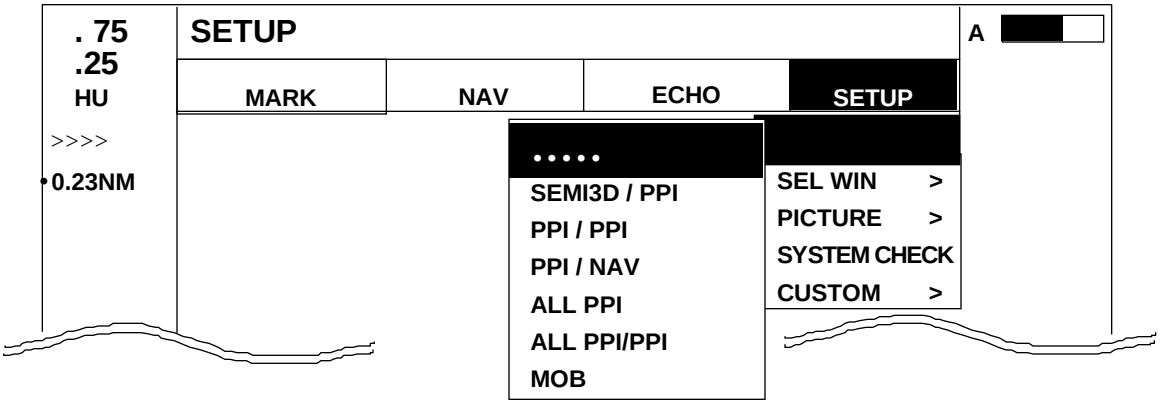
When the above-mentioned operations have been conducted, the items of the SETUP menu are vertically displayed. Further explanation about the SETUP menu will be conducted on the assumption that this "common operation for the SETUP menu" has already been completed.

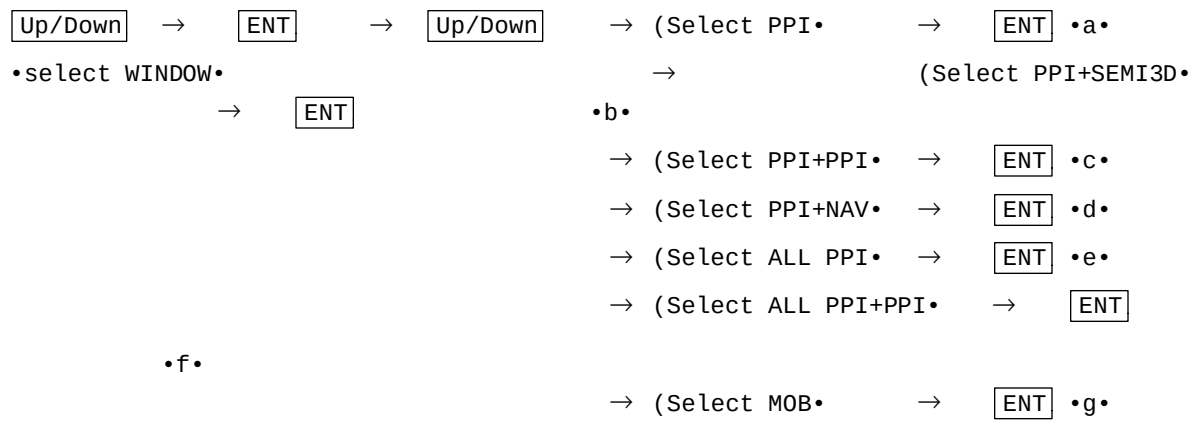
5.5.4.1 Initiating the screen display (WINDOW)

A function to switch the display method of the screen. A selection can be made from among the 7 patterns of screen arrangements, from the ordinary PPI display to the 2-screen PPI display, etc.

a) PPI screen
b) PPI screen & SEMI3D screen
c) PPI screen & PPI screen (Range can be operate in each screen.)
d) PPI screen & Navigation screen
e) All PPI screen (PPI, all the screen display.)
f) All PPI screen & All PPI screen(PPI & PPI, all the screen display.)
g) MOB screen

(1) Use the up-down cursor keys to select WINDOW from among the pull-down display items, and press the "ENT" key.
(2) Select a screen to be displayed with the up-down cursor keys from among the above 7 items that are displayed beside the WINDOW item.
(3) The setting will be completed when the "ENT" key is pressed after the selection.





-Limitation of screen operation

SCREEN ITEM	•••	PPI/SEMI3D PPI/NAV	PPI•PPI	ALL PPI	ALL PPI PPI	MOB
RANGE	•	•	•	•	•	×
VRM1•EBL1	•	•	•	×	×	×
VRM2•EBL2	•	•	•	×	×	×
FL VRM2•EBL2	•	×	×•	×	×	×
RINGS ON/OFF	•	•	•	•	•	×
ZOOM•OFF CENT	•	×	×	×	×	×
///CSR	•	•	•	•	•	×
HDG OFF	•	•	•	×	•	×
STERN M	•	•	•	•	•	×
NORTH M	•	•	•	•	•	×
GAIN•STC•FTC	•	•	•	×	×	×
TUNE	•	•	•	×	×	×
ST	•	•	•	×	×	×
GZ	•	•	•	×	×	×
SEL WIN	×	×	•	×	•	×
TXON/OFF	•	•	•	•	•	×

• • Independent control at time as two screen.•Switching the screen is necessary (SEL WIN)•

• • It becomes simultaneous control at the time as two screen.

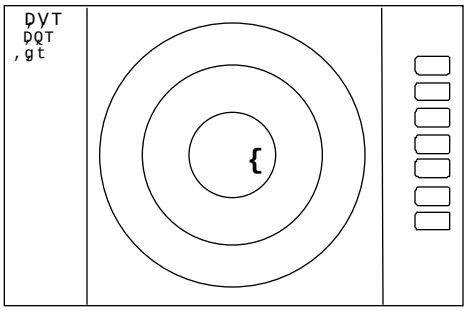
• • It can be used only at the time of PPI screen.

× • It can't be used.

- Screen modes and Operations

(a) PPI Screen

All functions can be used on this screen.



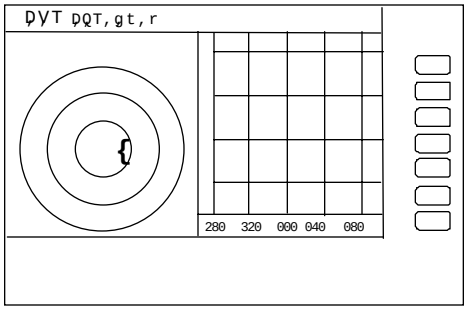
PPIScreen

(b) PPI/SEMI3D Screen

It becomes simultaneous control at the time as two screen.

Note: All controls, such as EBLs, VRMs effects both screen.

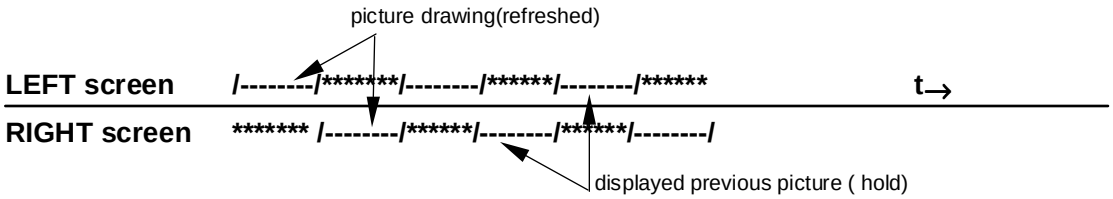
The ZOOM, OFF-C, FL EBL2, and FL VRM2 could not be used on this mode. The "SEMI3D" screen displays the center as ship's heading always.



PPI/SEMI3D Screen

(c) PPI/PPI Screen

The radar picture is refreshed two antenna scanning for each PPI screen. Un-refreshed screen picture is holded during the time.

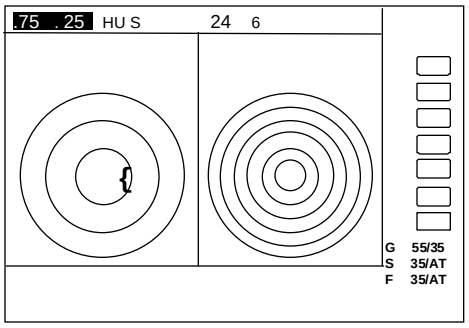


Note: The radar picture is refreshed with two scanning interval for each screen. Right screen picture is holded during refreshing left screen, left screen holded during refreshing right screen. When your ship navigates in high speed, use PPI screen to get fast refreshing picture.

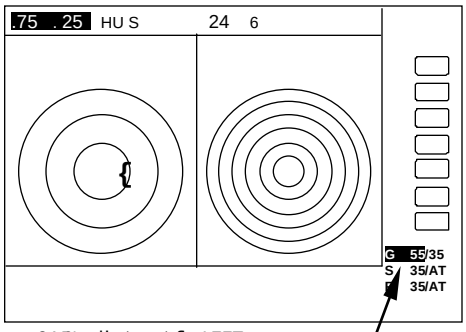
Note: Functions ZOOM, OFF-C, FL-EBL2, and FL-VRM2 can not be used on this screen.

Note: The function RANGE, GAIN, STC, FTC, and GZ can be used for each screen independently. The screen selected in "**SEL WIN**" that the range indicator displayed in reverse can be controlled.

Note: The cross cursor displayed only on selected screen.



LEFT screen selected



GAIN adjustment for LEFT screen

Left GAIN indicates in reverse

-Operation

a) Changing RANGE of LEFT screen

1) When the RIGHT range indicator displayed in reverse, change to LEFT screen with "SEL WIN" function.

2) Press ”RANGE UP” or ”RANGE DOWN” key to change the LEFT screen RANGE.

b) Adjusting GAIN of LEFT screen.

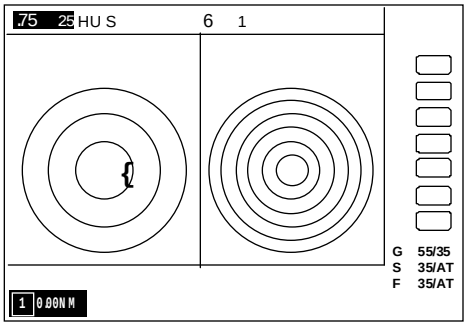
1) When the RIGHT range indicator displayed in reverse, change to LEFT screen with "SEL WIN" function.
2) Press the "GAIN" key, "**G50**" will displayed in reverse and ready for adjusting GAIN.
3) Adjust GAIN with the control knob.

Adjust STC and FTC in a same manner as GAIN.

Note: During adjustment of GAIN, STC, or FTC, radar picture refreshing is fixed to the adjusting screen. Approximately 5 seconds errapsed after adjustment, radar picture refreshing is return to normal.

c) Determining the distance with VRM1 on LEFT screen.

1) When the RIGHT range indicator is displayed in reverse, change to LEFT screen with "SEL WIN" function.
2) Press the "VRM1" key, " " will be displayed in reverse and ready for adjusting VRM1.
3) Determining the distance with the control knob.



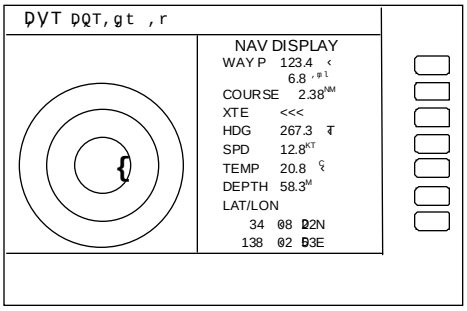
Determining the distance with VRM1 on LEFT screen

Note: If operate the VRM1 on the RIGHT screen, VRM1 will move to the RIGHT screen.

Operate VRM2, EBL1, or EBL2 in a same manner as VRM1.

(d) PPI/NAV Screen

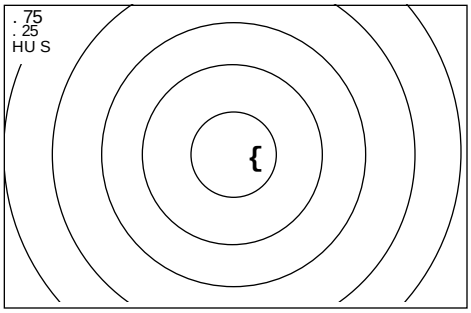
Note: The ZOOM, OFF-C, FL EBL2, and FL VRM2 can not be used on this screen.



(e) ALL PPI Screen

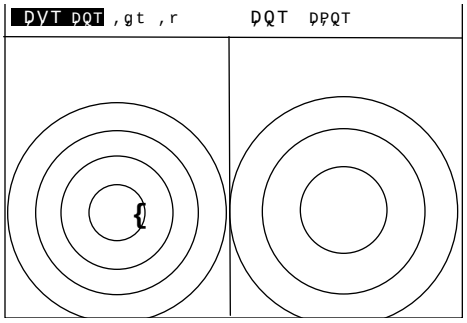
Note1: The RANGE, RINGS interval, and Display mode are displayed on the upper-left of the screen.

Note2: When press the key except "MENU", "RANGE UP/DOWN", "BRILL", and "POWER", return to PPI screen.



ALL PPI screen

(f) ALL PPI/PPI Screen



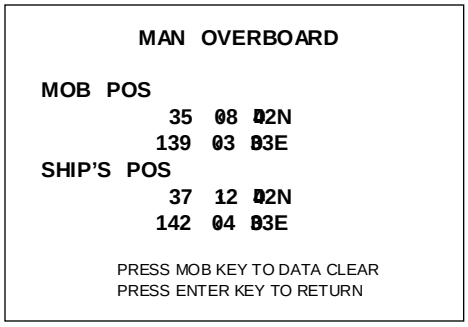
ALL PPI PPIscreen

Note1: The RANGE, RINGS interval, and Display mode are displayed on the top of the screen.

Note2: When press the key except "MENU", "RANGE UP/DOWN", "BRILL", and "POWER", return to PPI/PPI screen.

Note3: The radar picture is refreshed with two scanning interval for each screen. Right screen picture is holded during refreshing left screen, left screen holded during refreshing right screen. When your ship navigates in high speed, use PPI screen to get fast refreshing picture.

(g) MOB Screen



The MOB key has been pressed, the MOB position and ship's position are displayed. If not, MOB position will be displayed with bars(--.-)

Press MOB key to clear the MOB position and return to previous screen. Press ENT key to return previous screen with keeping the MOB position data.

5.5.4.2 Switching screens on PPI/PPI screen (SEL WIN)

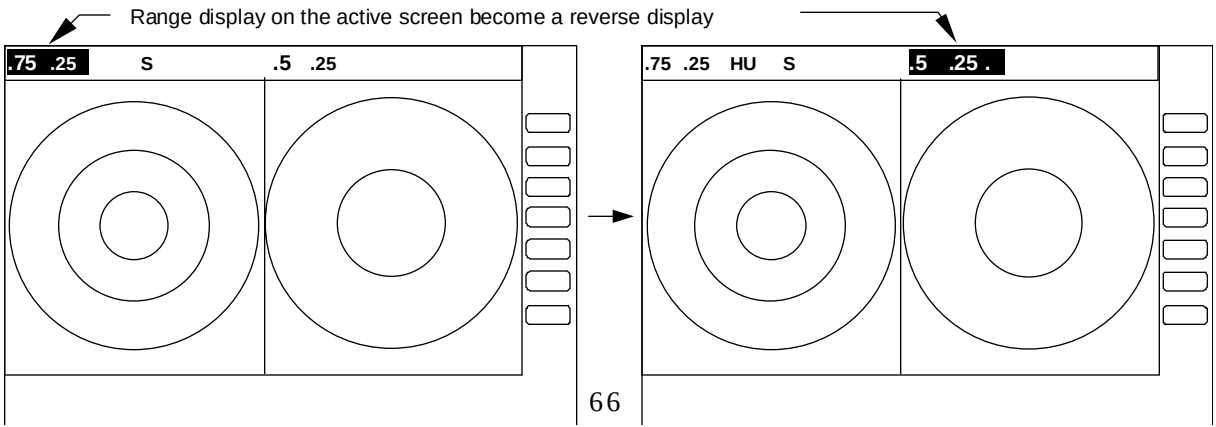
Switching to the desired screen for activation on a PPI/PPI screen display.

The "SEL WIN" function is switches the activated screen to effect the operation such as, RANGE, GAIN, STC, FTC, VRM1/2, EBL1/2, and guard zone. The range indicator of activated screen is displayed in reverse.

When "SEL WIN" is selected with the up-down cursor keys from among the pull- down display items and the "ENT" key is pressed, activated screen will be changed to the opposite screen.

Up/Down → ••• .....the opposite screen activated

•select SEL WIN•

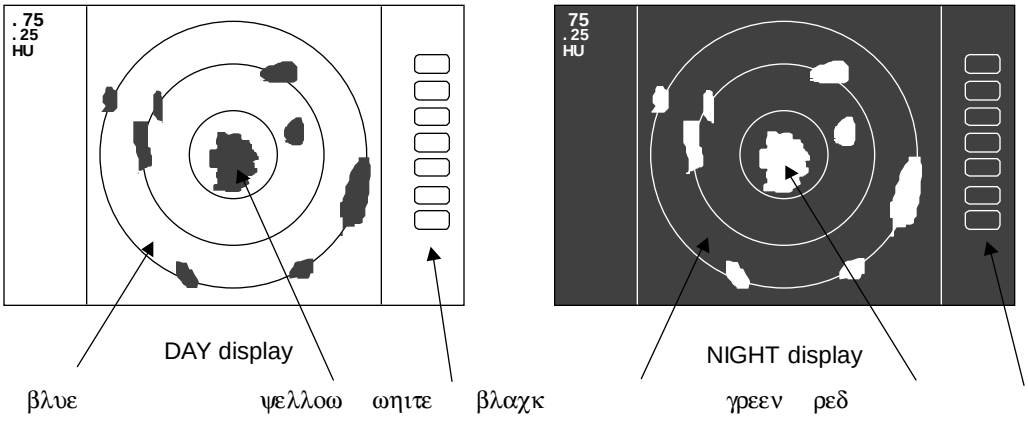


5.5.4.3 Changing the color of screen (PICTURE)

Changing the color of screen depending on weather and day / night environment conditions will be effective for easy viewing .

When "PICTURE" is selected with the up-down cursor keys from among the pull- down display items, select "DAY" and press "ENT" key to set to day display. Night display appears if "NIGHT"
is selected

Up/Down → ENT → Up/Down → (select DAY • → ENT → day display
• select PICTURE • → (select NIGHT • → ENT → night display



5.5.4.4 Fault Diagnosis by Self Check • SYSTEM CHECK)

Verifying the problem point by SYSTEM CHECK when, for example, some abnormality has occurred.

(1) Select SYSTEM CHECK from the pull-down display items using up-down cursor key, and press the “ENT” key.

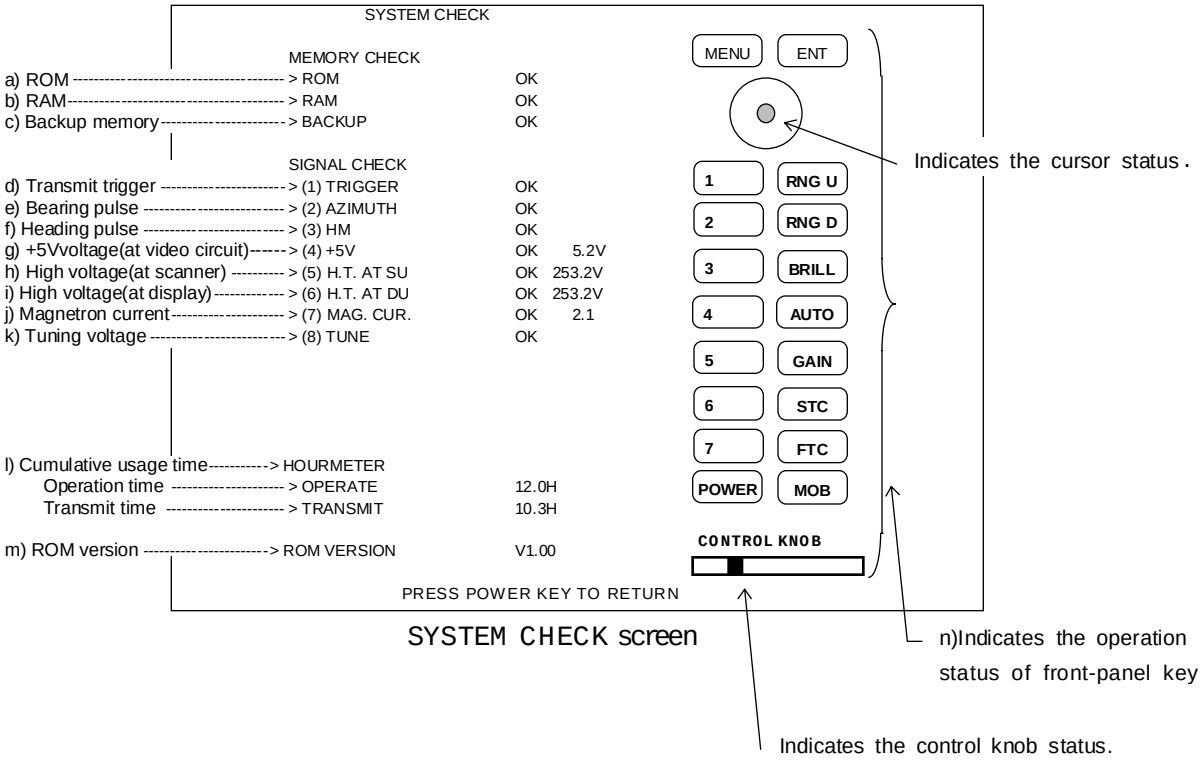
(2) The system check screen will appear.
While watching the screen , check the following:

i) Whether all items are marked “OK”. (If any item is marked “NG”, the indicated location may be faulty.)

ii) Press a front-panel key and see if the corresponding display on the screen is highlighted.

iii) Turn the control knob and see if the lower-right indicator move to right or left.

(3) Press the POWER key to return to the previous screen



SYSTEM CHECK screen

a) ROM---------- Indicates the ROM status.

b) RAM ---------- Indicates the RAM status.

•• **Backup memory**---------- Indicates the backup memory status.

•• **Transmit trigger** ---------- Indicates the signal line status for the trigger signal sent from the scanner unit.

e• **Bearing pulse** ---------- Indicates the signal line status for the bearing signal sent fron the scanner unit.

f) Heading pulse---------- Indicates the signal line status for the bow signal sent from the scanner unit.

g) +5V voltage---------- Indicates the reference voltage status of the video circuit and its voltage value.

(at video circuit) (normally about 5 V)

h) High voltage(at SU)---------- Indicates the status of th high voltage supplied from the display unit to the scanner unit and its voltag value (normally about 250 V) at scanner unit.

i) High voltage(at DU) ---------- Indicates the status of th high voltage supplied from the display unit to the scanner unit and its voltag value (normally about 250 V) at display unit.

j) Magnetron current ---------- Indicates the status of the anode current flowing in the magnetron and its current value.

k) Tuning voltage ---------- Indicates the status of the voltage used for tunning and its voltage value.

l) Cumulative usage time ---- Indicates the cumulative time your radar is used.

OPERATE : Duration of time during which the power supply is turned on.

TRANSMIT : Duration of time transmitting.

m) ROM version ---------- Indicates the ROM software version.

n) Front-panel keys---------- As you press any front-panel key when the SYSTEM CHECK screen is on, the corresponding key is highlighted on the screen by displaying it in reverse video.