

Chart Boundaries (On/Off/Auto)  
Smooth Scroll (On/Off)  
Cartographic (On/Off)  
Plotter Mode (On/Off)  
Returns to Map Setting Menu

**SETTINGS MENU**

**WP**

**DEST** Language (Eng/Fra/Deu/Esp)  
**WP** User Point Identifier (On/Off)  
**PLOT** User Point Autonomer (On/Off)  
**MARK** External Waypoint (On/Off)  
**SET** Cog Line at Boat (On/Off)  
**MODE** Depth Unit (M/F/Fm)  
**CLR** Returns to Settings Menu

**SETTINGS MENU**

**PLOT**

**DEST** Position Filter (On/Off)  
**WP** Speed Filter (On/Off)  
**PLOT** Filter Step<sup>00</sup>  
**CLR** Returns to Settings Menu

**SETTINGS MENU**

**MARK**

**DEST** COMPASS FUNCTIONS  
**WP** Heading (Mag/True)  
**PLOT** Calibrate Compass<sup>00</sup>  
**MARK** Magnetic Variation (Auto/Manual)  
Magnetic Variation<sup>00</sup>

**CLR** Returns to Settings Menu

**MODE PAD MENU**

**MODE**

**DEST** Set Charting or Navigation Mode  
**WP** Set track (On/Off)  
**CLR** Exit from Mode Pad Menu

**CLEAR PAD MENU**

**CLR**

**DEST** Delete Mark selected by the Cross-Hair  
**WP** Delete Event selected by the Cross-Hair  
**PLOT** Delete A-B line  
**MARK** Delete alarms  
**CLR** Exit from Clear Pad Menu

**AUXILIARY FUNCTIONS MENU**






**AUXILIARY FUNCTIONS**

**DEST** CLEAR USER POINTS ...  
**WP** FIX/COMPASS FUNCTIONS ...  
**PLOT** TRACKING MENU ...  
**MARK** AUTOPILOT MENU ...  
**SET** Displays User Points List  
**MODE** USER DATA-GROUP SELECTION ...  
**CLR** Exit from Auxiliary Functions Menu









**AUXILIARY FUNCTIONS**

**DEST**







**DEST** CLEAR USER POINTS  
**WP** Clear all Marks<sup>00</sup>  
**PLOT** Clear all Marks<sup>00</sup>  
**MARK** Clear all Marks<sup>00</sup>


 Clear all Events  $\wedge$   
 Clear all routes  
 Clear all points  
 Returns to Auxiliary Functions Menu






## AUXILIARY FUNCTIONS

 **FIX/COMPASS FUNCTIONS**  
 **FIX CORRECTION MENU ...**  
 Data Format (Nmea-0183/Nmea-0182/...)   
 Input Source [Gps/LO]   
 Special Navigator selection #   
**FIX ALARM SETTING ...**   
**WGS84 SETTINGS MENU ...**   
 Returns to Auxiliary Functions Menu






## AUXILIARY FUNCTIONS

 **FIX/COMPASS FUNCTIONS**  
 **FIX CORRECTION MENU**  
 Fix correction (On/Off)   
 Compute Fix Error   
 Change Fix Error #   
 Returns to Fix/Compass Menu








## AUXILIARY FUNCTIONS

 **FIX/COMPASS FUNCTIONS**  **FIX ALARM SETTING**  
 Audible Alarm (On/Off)   
 Auto Alarm Clear (On/Off)   
 Returns to Fix/Compass Menu





## AUXILIARY FUNCTIONS

 **FIX/COMPASS FUNCTIONS**  
 **WGS84 SETTINGS MENU**  
 Fix Datum WGS84 (On/Off)   
 Chart Datum WGS84 (On/Off)   
 Returns to Fix/Compass Menu







## AUXILIARY FUNCTIONS

 **TRACKING MENU**  
 Automatic Replot (On/Off)   
 Tracking Step Unit (Distance/Time)   
 Distance Step (0.01/0.05/0.1/0.5/1 Nmi)   
 Time Step (3/15/30 Sec/1/1/5 Min)   
 Clear Track   
 Returns to Auxiliary Functions Menu

## AUXILIARY FUNCTIONS

 **AUTOPLOT MENU**  
 Output Format (Nmea-0183/Nmea-0180/Nmea-0182-Cds)   
 Arrival Range (0.1/0.25/0.5/1/2/5 Nmi)   
 Returns to Auxiliary Functions Menu

## AUXILIARY FUNCTIONS

 **USER DATA-GROUP SELECTION**  
 Display Directory   
 SAVE FILE ...   
 LOAD FILE ...   
 DELETE FILE ...   
 Format User Cartridge 

Change User Cartridge  
Returns to Auxiliary Functions Menu

**F**  
MODE  
CLR

## AUXILIARY FUNCTIONS

### USER DATA-GROUP SELECTION

#### SAVE FILE MENU

**A** DEST Save file of Marks  $\Sigma$   
**B** WP Save file of Marks  $\times$   
**C** PLOT Save file of Marks  $*$   
**D** MARK Save file of Events  $\wedge$   
**E** SET Save file of Routes  
**F** MODE Save file of Track  
**CLR** Returns to User Data-Group Selection Menu

## AUXILIARY FUNCTIONS

### USER DATA-GROUP SELECTION

#### LOAD FILE MENU

**A** DEST Load file of Marks  $\Sigma$   
**B** WP Load file of Marks  $\times$   
**C** PLOT Load file of Marks  $*$   
**D** MARK Load file of Events  $\wedge$   
**E** SET Load file of Routes  
**F** MODE Load file of Track  
**CLR** Returns to User Data-Group Selection Menu

## AUXILIARY FUNCTIONS

### USER DATA-GROUP SELECTION

#### DELETE FILE MENU

**A** DEST Delete file of Marks  $\Sigma$

**B** WP Delete file of Marks  $\times$   
**C** PLOT Delete file of Marks  $*$   
**D** MARK Delete file of Events  $\wedge$   
**E** SET Delete file of Routes  
**F** MODE Delete file of Track  
**CLR** Returns to User Data-Group Selection Menu

## LCD BRIGHTNESS PAD MENU

### LCD BRIGHTNESS MENU

**A** DEST Dim +  
**B** WP Dim -  
**D** MARK Backlight  
**CLR** Exit from Dim Pad Menu

## Note

- <sup>(1)</sup> After pressing the key, use the 'A' and 'B' keys to change the value, and then the 'ENT' key to confirm or the 'CLR' key to abort.
- <sup>(2)</sup> After pressing the key, use the up or down arrow keys to change the value, and then the 'ENT' key to confirm or the 'CLR' key to abort.
- <sup>(3)</sup> To move cursor into the chosen square, press the left and right arrow keys; to change the number in the square, press the up and down arrow keys.
- <sup>(4)</sup> Use the left and right arrow keys to insert the desired value, and then the 'ENT' key to confirm or the 'CLR' key to abort.
- <sup>(5)</sup> The Special Navigator Selection Menu is available only if MICROTORGCMU 3030 T or AP NAV-MK4 are selected. If GPS-NMEA/DIIS or GPS ROCKWELL are selected, this item selects the GPS Data Page.
- <sup>(6)</sup> The latitude value is modified by the left and right arrow keys, and the longitude value by the left and right arrow keys. Press 'ENT' to confirm or 'CLR' to abort.



## GLOSSARY

**BEARING (BRG):** the horizontal direction of one terrestrial point from another, expressed as the angular distance from a reference direction, usually measured from 000 degrees at the reference direction clockwise through 360 degrees.

**CHARTING:** mode of operations in which all operations refer to the position of the Crow-Hair.

**COURSE OVER GROUND (COG):** terms used to refer to the direction of the path over ground actually followed by a vessel.

**CROSS TRACK ERROR (XTE):** the distance from the vessel's present position to the closest point on a line between the origin and destination waypoints of the navigation leg being travelled.

**DEFAULT:** indicates a value when the user has not defined a particular value.

**DEPTH LINES:** lines that connect points at the same depth.

**DEVIATION:** the angle between meridian and the axis of a compass card, expressed in degrees east or west to indicate direction in which the northern end of the compass card is offset from magnetic north.

**EVENT:** user point refers to the ship's position.

**FULL SCREEN:** screen mode that displays maps at full screen.

**GPS:** Global Positioning System.

**HEADING:** the horizontal direction in which a ship actually points or heads at any instant, expressed in angular units from a reference direction, usually from 000 degrees at the reference direction clockwise through 360 degrees.

**MAGNETIC BEARING:** bearing relative to magnetic north; compass bearing corrected for deviation.

**MAGNETIC HEADING:** heading relative to magnetic north.

**MARK:** user point refers to the Crow-Hair position.

**NAVIGATION:** mode of operations in which all operations refer to the ship's position.

**ROUTE:** sequence of waypoints connected by segments.

**SPEED OVER GROUND (SOG):** the speed of a vessel along the actual path of travel over the ground.

**TARGET:** special Mark point that indicates the position where the ship goes to.

**TRACKING:** past course represented by a line that connects the stored positions.

**TRUE BEARING:** bearing relative to true north; compass bearing corrected for compass error.

**TRUE HEADING:** heading relative to true north.

**USER POINT:** point placed permanently on the chart with a graphic symbol (Mark, Event, Waypoint).

**VARIATION:** the angle between the magnetic and geographic meridians at any place, expressed in degrees and minutes east or west to indicate the direction of magnetic north from the true north.

**WAYPOINT:** any point on earth to which one intends to navigate at some time.



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### 1 Attenzione!

L'esposizione del display ai raggi ultravioletti può accorciare la vita dei cristalli liquidi usati nel vostro plotter. Questo limite è dovuto alla tecnologia costruttiva degli attuali display.

Si raccomanda pertanto di tenere la macchina protetta dalla luce solare intensa e di coprire lo schermo quando non in uso.

Evitare inoltre che il display si surriscaldi per non causare una diminuzione di contrasto che, in casi estremi, può rendere lo schermo completamente nero.

Tale condizione è comunque reversibile durante il raffreddamento.

### GB Warning!

Exposure of display to UV rays may shorten life of the liquid crystals used in your plotter. This limitation is due to the current technology of the LCD displays.

Ensure to protect your display from intense direct sunlight when not in use and whenever possible.

Avoid overheating which may cause loss of contrast and, in extreme cases, a darkening of the screen. Problems which occur from overheating are reversible when temperature decreases.

### D Achtung!

Ultraviolette Strahlen können die Lebensdauer von Flüssigkristalldisplay verkürzen. Die derzeitige LCD-Technologie bedingt diese kürze Lebensdauer.

Schützen Sie daher Ihr LCD-Display vor direktem Sonnenlicht, wenn das Display nicht benutzt wird, wann immer die Möglichkeit besteht.

Überhitzung des Displays durch Sonneneinstrahlung führt zu einem Kontrastverlust und in extremen Fällen sogar in eine Schwärzung des Bildebildes.

Bei sinkenden Temperaturen normalisiert sich der Kontrast wieder und die Bildschirminformation wird wieder ablesbar.

### F Attention!

L'exposition de votre écran LCD aux ultra-violets lors de soleil intense réduira la durée de vie de l'afficheur de votre lecteur. Cette contrainte est liée à la technologie des écrans LCD.

Assurez-vous que votre appareil est bien protégé des rayons directs du soleil.

Une augmentation trop importante de température peut obscurcir des zones de votre écran et le rendre ainsi inutilisable (non couvert par la garantie).

### E Adviso!

La exposición de la pantalla a los rayos UV puede acortar la vida del cristal líquido usado en su plotter. Esta limitación se debe a la tecnología actual de las pantallas LCD.

Por ello se recomienda proteger la pantalla de la luz solar intensa y cubrirla cuando no se usa.

Evitar que la pantalla se caliente en exceso pues puede causar pérdida de contraste y, en caso extremo, la pantalla puede quedar totalmente negra.

Este problema revierte al enfriarse la pantalla.