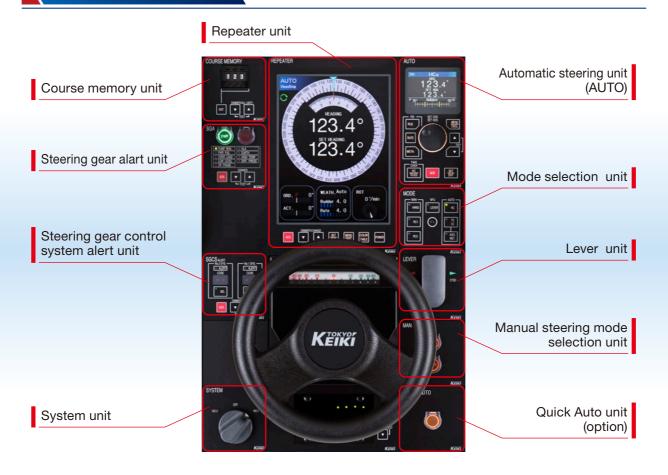


Name of each unit

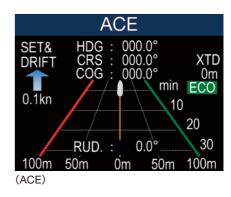


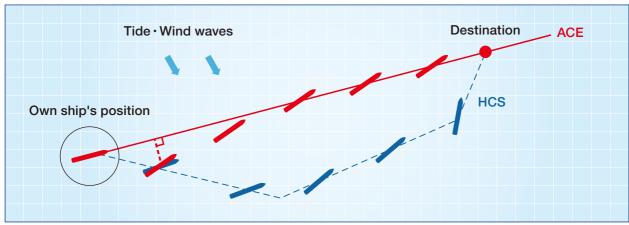
Advanced Control for Ecology [ACE] (Optional function)

It is possible to control a straight course on the PR-3000 without connection to other equipment.

With the new course control function (ACE), a route is automatically created on the heading between the current position and the destination.

When compared to auto steering, reduced route deviation/shorter sailing distance/and reduction of wasted rudder, ultimately contridutes to safe and energy efficient navigation.





PR-3000 serise

PR-3000 is the successor of PR-2000 which has had a remarkable sales record of over 17,000 units for coastal and fishing vessels.

In addition to the various sophisticated information provided by new color LCD panel, we pursued enhanced safety, reliability, and maneuvability to this new model.

Features `

Reinforced information is displayed for further comfortable navigation.

User-friendly operation panel

While maintaining the userbility of PR-2000, more intuitive maneuvability has been added to this new model.

Graphical information supports safe voyage

Adoptation of a LCD display enabling the display of various types of information for simple navigation more clearly.

High reliability system design

Enhancing the redunduncy by separating the function of system, and installing the function that monitors the systems mutually at any time. These designs contribute to high reliability of our PR-3000.

Flexibility suits you to applying new functions onboard

The flexible design of PR-3000 allows you to install the new function* easily even after the PR-3000 is installed to your vessel.

*ex. Adaptive control, ACE, and so on.

Alert function provides you advanced safety

In addition to the rudder follow-up failure or the abnormality of feedback from solenoid valve, an audible and visible alert for the abnormality of a heading sensor or another sensors will be issued.

Various types of PR-3000 based on the specification

Stand type, GYLOT type, console type, and other several types of PR-3000 we can propose based on your specification requirement. And it's possible to combine the PR-3000 and the steering gear manufactured by other makers.



Function / Option

Function			Performance Explanation				
Steering stand	Steering method	AUTO	 AUTO steering with the heading sensor. It is an option that can be selected multiple heading sensor. 				
		HAND	HAND steering by the steering wheel. (FU)				
		REMOTE	 REMOTE steering (RC) in a place away from the bridge by means of a remote controller. (FU) 				
		LEVER	 LEVER steering by direct control of the power unit or solenoid valve without using the control circuit. (NFU) 				
		MANUAL HYDRAULIC (MANUAL PUMP) **TOKYO KEIKI's T type of power unit only	 Emergency hydraulic steering at the steering stand can operate, in case of electric power failure. 				
		Quick Auto function (option)	• The Quick Auto function is activated, and ship's heading is set on the direction which you want to go by manual steering(HAND or REMOTE) and after that set the wheel in midshi Then, the steering mode will be automatically changed to AUTO and you can sail toward your target direction on the AUTO steering mode.				
		Takeover function (option)	 When multiple REMOTE steering units are connected, steering right is able to be acquired a the desired steering position without operating at the main steering position. (excluding LEVER steering mode) 				
	Rep	peater compass	 The repeater compass is displayed on the 10.4 inch color LCD screen of the steering stand. The open scale type is equipped as standard and the rudder angle indication can be also displayed. 				
	Off- (opti	-course alarm on)	 OCA is an optional function to issue an alert when there is any deviation between the s heading in the AUTO steering mode and the heading of another sensor not used for AUT steering (ex.Magnetic compass). 				
	Gyrocompass (option)		 TG-8100 gyrocompass (For more than 500G/T vessel by SOLAS rule requirement) Satisfies JG performance standard and IMO requirements. ES-180 gyrocompass Operates on DC24V power supply. Repeater signal outputs each 4 circuits of step signal and serial signal. 				
	GP:	S compass on)	● TOKYO KEIKI GPS compass (TC-300) built in the steering stand is possible.				
	Trac (opti	cking pilot ^{on)}	 Controls by ship like tracing the line of route plan drawn on the chart when the electronic chart system or the GPS plotter connected. It's possible to sail on the route by the most efficient rudder control based on the calculation of cross track distance (XTD). 				
	Aux. steering stand (option)		 AUTO, MANUAL, REMOTE steering mode are possible at the desired steering position. Water-proof construction. 				



GPS Compass built-in stand type (OPTION)



QUICK AUTO (OPTION)



AUX.STEERING STAND (OPTION)

Steering Stand





■ Stand type (T type)







■ Console type (1000mm range)



Type of models

	А	В			С		D	
	1 2 3 4	-	5	-	6 7	8 -	9	
P R - 3	1 0 2 A	-	E 4	_	H S	1 -	ACE	

A 1 [Automatic steering control model] 1: PID Single line 3: PID Single line and ADPT Single line 9: Without automatic steering control 2 [Interface Connection] 0: Repeater Interface, No THS 1: Repeater Interface 2: With THS 3: Repeater Interface, With THS 3 [Type of stand] 1: Stand type (S type/T type) 2: GYLOT® type (S type)

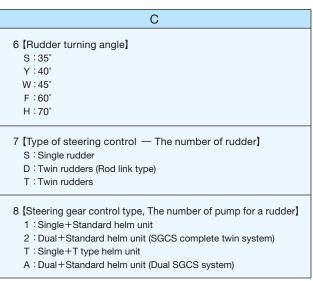
2: GYLOT® type (S type) 3: Console type (500mm range) 4: Unit type 5: ECS Autopilot type 6: Console type (1000mm range) 7: Special console type 4 [Type of heading sensor] C: Another manufacturer's heading sensor D: TG-8100

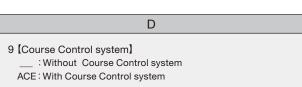
F:FOG
J:TKG-1100
K:Installed our heading sensor (For retrofitting)
L:ES series
M:TC-300

N: Magnetic compass
X: Without auto steering function

5 [Type of steering gear unit]
E □: Solenoid valve (Solenoid valve control type)
E0: TBD
E1: AC100/110V ON·OFF control (Manufactured by other company)
E2: DC24V ON·OFF control
E3: TBD
E4: AC100/110V ON·OFF control (Manufactured by TOKYO KEIKI)

В





Design and specifications are subject to change without prior notice, and without any obligation on the part of the manufacturer.

www.tokyokeiki.jp/e/products/marine/



E:TG-8600



Thoroughly read the instruction manual before operating the equipment.

Marine Systems Company

Head Office 2-16-46, Minami-Kamata, Ohta-ku, Tokyo 144-8551 JAPAN Tel. +81-3-3737-8611 Fax. +81-3-3737-8663

TOKYO KEIKI (SHANGHAI) CO., LTD. C-1407, Orient International Plaza. No.85 Lou Shan Guan Rd., Shanghai 200336. CHINA Tel. +86-21-3223-1252 Fax. +86-21-6278-7667

TOKYO KEIKI U.S.A., INC. 3452 East Foothill Boulevard, Suite420, Pasadena, CA 91107 U.S.A.

Tel. +1-626-403-1500 Fax. +1-626-403-7400

Singapore Branch No.2 Jalan Rajah #07-26/28, Golden Wall Flatted Factory, Singapore 329134

Tel. +65-6254-1877 Fax. +65-6254-1745