

SEIKO

KT-401 *Shooting Timer*

OPERATING MANUAL

Thank you for purchasing SEIKO SHOOTING TIMER KT-401.
Before using your SEIKO SHOOTING TIMER, please read this manual carefully for its proper use and care.
Keep this manual handy for ready reference.

CAUTION

- (1) This manual may not be copied or reproduced in any form, in whole or in part, without the express written consent of SEIKO.
- (2) This manual may be subject to change without notice.
- (3) This manual has been prepared carefully to provide you with complete information for the operation of this product. For the purpose of constant improvement in this manual, your suggestions and comments on the descriptions included in it are highly appreciated.
- (4) SEIKO shall not be liable for any failure of this product or direct or indirect damages resulting from such failure if such failure is caused due to abuse, misuse, failure to observe instructions in this manual and neglect of other reasonable care, and servicing, changes, modifications or alterations performed by other than SEIKO or a servicing contractor authorized by SEIKO.

SAFETY ALERT SYMBOLS

The symbols and terms used in this manual have the meaning as explained below:



WARNING

WARNING is used to indicate a potentially hazardous situation which is likely to cause death or severe personal injury if the instructions under this heading are not followed correctly.



CAUTION

CAUTION is used to indicate a potentially hazardous situation which is likely to cause personal injury or property loss if the instructions under this heading are not followed correctly.

The following pictorial symbols indicate what must **NOT** be done.



General prohibition



Prohibition against disassembly/tampering



Prohibition against use near water



Prohibition against handling with wet hands



Prohibition against exposure to water

The following pictorial symbols indicate what must be done.



General instructions



Extraction of power plug

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1. SAFETY PRECAUTIONS

The following precautions must be strictly observed for the safety of yourself and your fellow workers and for the protection of property from loss and damages.

 WARNING		
Actions to be taken in case of troubles	If the Product is giving out smoke or burnt smell, or showing other abnormal symptoms, turn off the power switch and cut the power supply immediately. Then, call your nearby SEIKO dealer or agent for repair serve. If the Product is used again without being reconditioned, an electric shock or fire may be caused.	
Caution on cable connection	When unplugging the power cord from the outlet, do not pull the cord, but hold the plug. An electric shock, a malfunction or fire may be caused.	
	Never use any damaged power cord or plug, or loose socket. An electric shock, short circuit or fire may result.	
	Do not use the Product at humid or dusty places, or places where the temperature changes abruptly. A short circuit or electric shock may result.	
Prohibition against unauthorized disassembly, repair or modification	Unless you are a qualified electrician, never try to disassemble, repair or modify the Product. For repair serve, contact your nearby SEIKO dealer or agent. Unauthorized disassembly, repair or modification may cause an electric shock or fire.	
No foreign matter	Do not let any foreign matter such as pin and a piece of metal enter into the inside of the Product. In case this has occurred, turn off the power switch immediately, and call your nearby SEIKO dealer or agent for inspection. If the Product is used again without being reconditioned, an electric shock or fire may result.	
Prohibition against use near water	The Product is designed for indoor use only, and its case is not water resistant. Never expose the Product to water. Do not use it outdoors or near a swimming pool, where it may be exposed to rain or splashes of water. A short circuit or electric shock may result.	
Prohibition against handling with wet hands	Never operate the Product with wet hands. An electric shock or malfunction may result.	
Prohibition against exposure to water	Do not get the power and other connectors wet. A burn or a malfunction may be caused.	

CAUTION

<p>Do not leave the Product under direct sunlight for a long time. The temperature inside it may rise excessively to damage the circuit and other parts.</p>	
<p>Before connecting the power cord and other cables to the Product, be sure to check that the power switch is turned off. Do not use any power cord or cable other than specified. Otherwise, an electric shock or malfunction may be caused.</p>	
<p>This Product is equipped with precision electronic circuits. Misuse or abuse, or rough handling of the Product may adversely affect the performance of such electronic circuits, causing a malfunction and reducing the serviceable life of the Product.</p>	
<p>When the power switch is turned on and off or vice versa in succession, an interval of at least 5 seconds should be provided between the switch operations.</p>	
<p>Before moving the Product, be sure to turn off the power switch. An electric shock or malfunction may result.</p>	
<p>While the Product is not in use, be sure to keep the power plug disconnected from the outlet. Otherwise, the insulation will be deteriorated to cause an electric shock, leakage of electricity, or fire.</p>	
<p>If any abnormal operation occurs due to an abnormal signal transmitted from outside or other causes, turn off the power switch, and then turn it on again after at least 5 seconds.</p>	
<p>When connecting the cables, insert the plugs properly. Otherwise, a malfunction or abnormal operation may be caused.</p>	
<p>Do not expose the case of the Product to solvents such as alcohol and gasoline, spray of cosmetics or the like, cleaners, adhesives, or paints. They may discolor, deteriorate or damage the case due to chemical change.</p>	

2. OVERVIEW

SEIKO SHOOTING TIMER KT-401 is a display device that is preadjusted to count and show the lapse of time required by the 24- and 14-second rules in basketball.

It also supports the 30-second rule in mini-basketball.

In addition to those preset times, the timer can be set for any desired amount of time up to 99 seconds in one second increments, making itself suitable for a wide variety of training programs.

3. FEATURES

- The characters displayed are clear and highly visible with their height of 250 mm and the use of high-intensity LED.
- “Start/Stop”, “Reset & Start” and “14 sec. Reset & Start” buttons on the operation panel to control the timer are illuminated from within to show the operation status of the respective buttons. These buttons are distinguishable from others by being larger in size or different in shape, increasing the user-friendliness of the operation panel.
- The preset 24 and 14 seconds can be adjusted as desired, and the time you have set can be retained in memory.
- KT-401 is a product recommended by the Japan Basketball Association (JBA) for the use in the games of basketball.

4. NAMES AND FUNCTIONS OF PARTS

DISPLAY BOARD

<Front>



High-intensity red LED

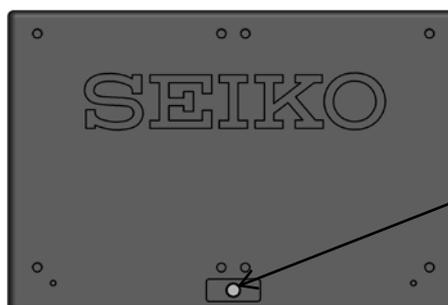
<Bottom>



2-M6 nut
(for mounting KT-401 on a stand)

* KT-401 can be mounted on Stand KT-011 and Desktop Stand KT-022 (both sold separately).

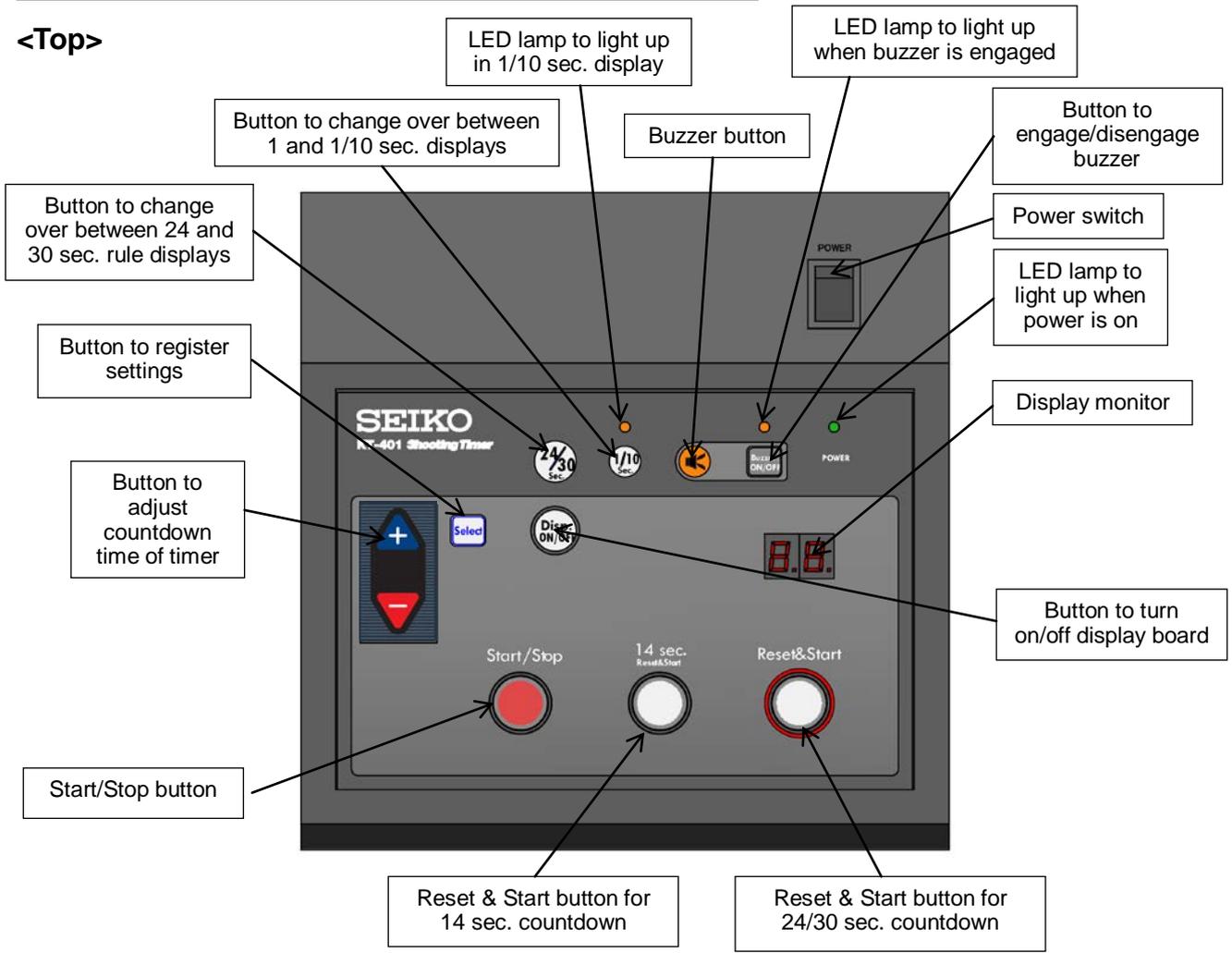
<Rear>



Connector
(for connecting signal cable)

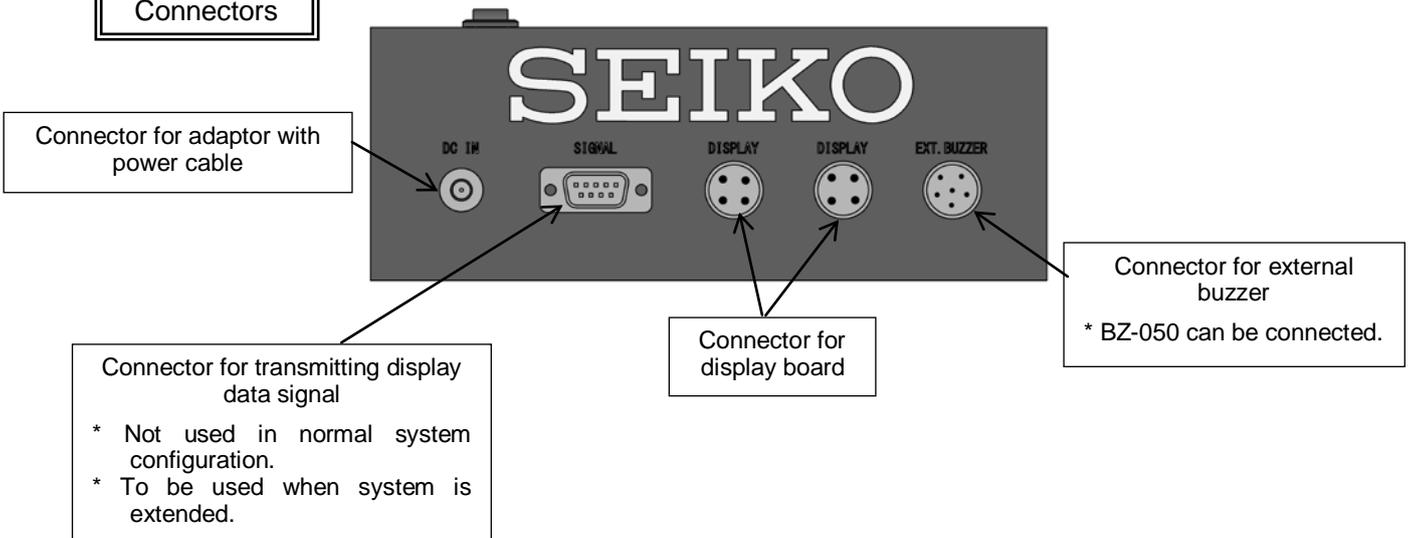
OPERATION BOARD/OPERATION PANEL

<Top>



<Rear>

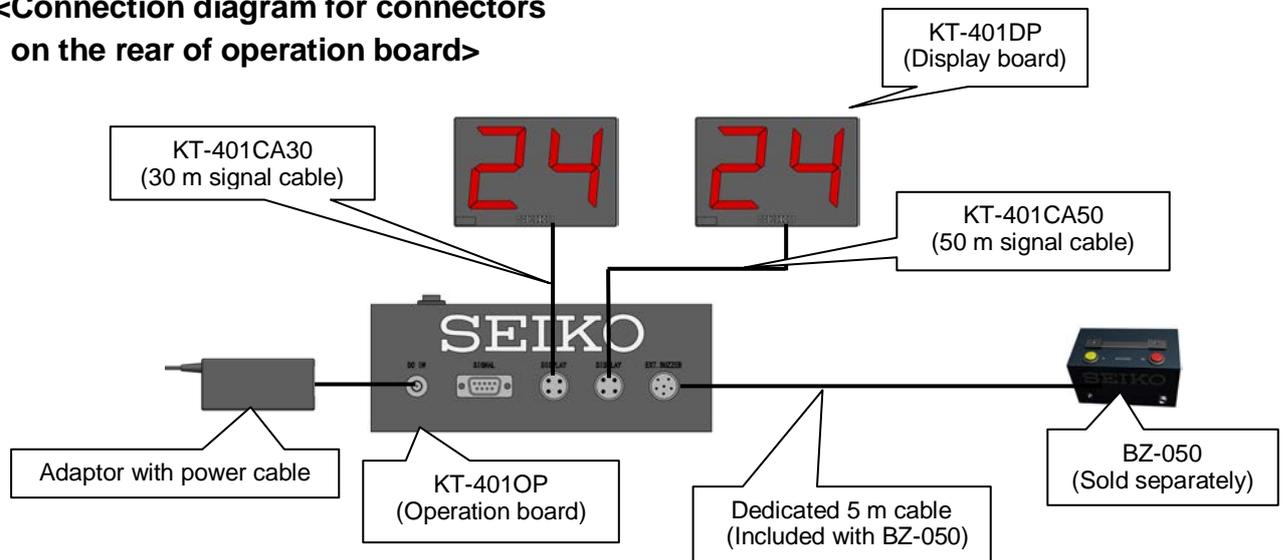
Connectors



5. BEFORE USING YOUR SHOOTING TIMER

1. Securely connect the adaptor with power cable included with KT-401 to the power connector of the operation board, and insert the power plug of the power cable properly into the outlet.
2. Securely insert the plugs of the dedicated cables into the connectors on the rears of the display board and operation board, and tighten the connector nuts.

<Connection diagram for connectors on the rear of operation board>



* 30 m and 50 m signal cables can be connected interchangeably to either of the connectors of the display board.

3. Turn on the power switch. The corresponding LED lamp lights up while the power is on.
4. Press  button to engage/disengage the time-up warning buzzer. The corresponding LED lamp lights up while the buzzer is engaged.
5. The buzzer sounds while  button is kept pressed.
6. Press  button to select 1 or 1/10 second increment display to be shown after the countdown time has reached less than 10 seconds. The corresponding LED lamp lights up while 1/10 second increment display is selected.
7. If the display board is turned off by pressing  button, the buzzer is automatically disengaged. When the display board is turned on again, the buzzer is engaged or disengaged according to the previous setting.
8. With each press of  button, the countdown time is changed over between 24 and 30 seconds. When 30 seconds is selected for the countdown time, "." is shown after "30" on the display monitor of the display board.

<Display monitor>



6 METHOD OF OPERATION

• Operation Procedure: Normal Use

	Operation	Button operation	Action/Remarks	Display monitor
1	To start game Timer starts counting down set time.		Countdown is started. * Start/Stop button flashes in red.	 ⇒ 
2	A shot was made.	 Keep button pressed.	Timer is stopped. * Reset &Start button lights up in green.	
3	Ball was rebounded.	 Release button.	Countdown is started. * Start/Stop button flashes in red.	 ⇒ 
4	When ball goes out of bounds, and play is stopped: * If throw-in is awarded to the other team, reset timer.		Timer is stopped. * Start/Stop button lights up in red.	
5	To adjust countdown time		Ex.) To change from "18" to "15" seconds:	
6	Game is restarted.		* Start/Stop button flashes in red.	 ⇒ 
7	24 seconds have elapsed, and play is stopped.		Timer stops automatically with buzzer sound.	 (Buzzer)

• To start countdown from 24 seconds

8-1	To reset timer	 Keep button pressed.	Keep button pressed. * Reset &Start button lights up in green.	 ⇒ 
8-2	To start countdown	 Release button	* Start/Stop button flashes in red.	

• To start countdown from 14 seconds

9-1	To reset timer	 Keep button pressed.	Keep button pressed. * 14 sec. Reset &Start button lights up in green.	 ⇒ 
9-2	To start countdown	 Release button	* Start/Stop button flashes in red.	

■ To change countdown time to other than 24 or 14 seconds

	Operation	Button operation	Action/Remarks	Display monitor
1	While timer is stopped		* Start/Stop button lights up in red. * Reset & Start button lights up in green.	
2	To change countdown time from 24 to 23 seconds		Ex.) To change from "24" to "23" seconds:	
3	To change countdown time from 14 to other setting	 → 	* Start/Stop button lights up in red. * 14 sec. Reset & Start button lights up in green.	
4	To change countdown time from 14 to 15 seconds		Ex.) To change from "14" to "15" seconds:	

■ To cancel set countdown time when power switch is turned off (when playing a game under a special rule applied only to the game):

5-1	To register setting		 Button flashes in green three times.	 ⇒ 
* To return to the preset countdown time selected before the change, keep  button pressed for more than 2 seconds, or turn off and on the power switch.				

■ To retain set count down time when power switch is turned off (when current rules are changed)

5-2	To register setting	 + 	  Buttons flash in green three times.	 ⇒ 
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* Note that the countdown time of 30 seconds cannot be changed to any other setting.

7. PRODUCT COMPOSITION AND SPECIFICATIONS

1. Product Composition

① 24-sec. Display Board KT-401DP	2 units
② 24-sec. Display Operation Board KT-401OP	1 unit
③ Adaptor with Power Cable (5 m) KT-ADP01	1 piece
④ 50 m Signal Cable KT-401CA50.....	1 piece
⑤ 30 m Signal Cable KT-401CA30.....	1 piece

2. Specifications

- Dimensions Display board: Approx. 500 (W) x 338 (H) x 55 (D) mm
Operation board: Approx. 186 (W) x 73 (H) x 182 (D) mm
- Character height Display board: 250 mm
- Display Display board: High-intensity red LED
- Weight Display board: Approx. 2.6 kg
Operation board: Approx. 1.1 kg/ Adaptor with power cable 0.7 kg
30 m cable: Approx. 1.4 kg
50 m cable: Approx. 2.1 kg
- Power supply AC 100 ~ 240 V, 50/60 Hz
- Case material Display board: ABS resin
Operation board: Steel plate with baked finish

Note: The above specifications are subject to change without prior notice for product improvement.

SEIKO TIME SYSTEMS INC.

URL <http://www.seiko-sts.co.jp>

GUARANTEE

Thank you very much for purchasing SEIKO SHOOTING TIMER KT-401.

We certify that the Product is guaranteed against defects in material and workmanship according to the guarantee conditions specified herein.

If the Product malfunctions under normal use as described in this Operating Manual within one year from the date of purchase, it will be repaired without charge.

To qualify for the services under the guarantee, you must present your SEIKO SHOOTING TIMER KT-401 to the retailer from whom it was purchased, or a service facility designated by us. Packaging and transportation charges are to be paid by the owner of the Product.

Even within the guarantee period, repair services will be provided at cost in the following cases:

- (1) Failure or damage caused by misuse or carelessness;
- (2) Failure or damage caused by improper repair or modification;
- (3) Failure or damage caused by improper handling such as dropping of the Product during transportation after purchase;
- (4) Failure or damage caused by natural disasters such as fire, flood, earthquake and lightning, and other factors beyond the control of us such as smoke and other air pollution and extraordinary atmospheric pressure;
- (5) Scratches, cracks or other damage on the case caused by use over time;
- (6) If the name of the retailer and the purchase date are not indicated in the space below, or if such information has been rewritten; and
- (7) If this Guarantee is not submitted together with the Product.

Date of purchase:

Retailer:

Please note that this Guarantee is valid only if the name of the retailer and the date of purchase are properly entered by the retailer from whom your SEIKO SHOOTING TIMER KT-401 was purchased.