Magnescale
SPEED X PRECISION

LH71　Initial setup (Example)

Display unit: LH71-1 (1 axis input)

Setting conditions   The detailed settings are the factory default settings.

	Setting items		Setting value (selection)	
Basic settings	TYPE	`TYPE`	1 axis model is not displayed	
	ADD(Addition display)	`Add`	1 axis model is not displayed	
	Destination	`COUNTrY`	(default) STD	`STd`
	Measuring unit resolution	`SIG rES`	5µm	`5u`
Detailed settings	Display resolution* and polarity	`dSP rES`	5µm	`5u`
	Display switching	`INPUT CHANGE`	(default) Input 1:	`IN - 1`
	Axis label	`LAbEL`	(default) Display : X	
	Scaling	`SCALING`	(default) 1 time (1.000000)	`1000000`
	Compensation value	`Err SET`	(default) No setting (OFF)	`Err OFF`
	Flicker control	`FLICKEr`	(default) Strong (2)	`2`
	Sleep	`SLEEP`	(default) No setting (OFF)	`OFF`

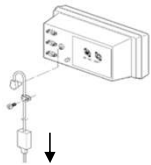* The initial value is the measurement unit resolution set in the basic settings.

Measuring unit
SJ700A (1 axis)
Output resolution: 5µm

SJ700A

X axis

START

Set to basic setting mode

When the power is turned on for the first time after shipment from the factory	When you want to change the basic settings
Connect the AC adapter and Turn on the primary power supply (Not ⏻ key)	AC adapter is energized. Turn on ⏻ key, the LED light changes from "blinking" to "off" and then Press and hold SET UP key for 3 seconds.

AC primary power source

The following display appears

For LH71-1, LH71-2

`SETUP` → `COUNTrY`

Power ON   About 2 sec

①
When the display is `COUNTrY`, press the [◁] key on the right side once.

The display will be `STd`. (Destination selection mode)

(If you want to change the destination, press [◁] key.)

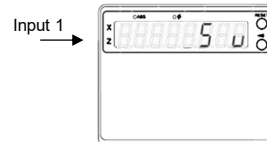When you have made your selection, press [ENT] to save your settings.

②
Press [⇧] key once.

The display will be `SIG rES`. (Measurement unit resolution)

Press [◁] key to check the current measurement unit resolution.

If the resolution is not 5µm, press [◁] key to change it.

After checking the resolution, press [ENT] key to save the settings.

Input 1 →

> Confirm that the resolution of input 1 is 5 µm (SJ700A scale).
> * 10 µm "10U" for Digiruler PL20C

③
Switch from basic settings to normal count mode.

Press [RESET] key once and the display will change to `CANCEL`.

Press [◁] key once and the display will change to `FINISH`.

④
Press [ENT] key once to automatically switch to advanced settings mode.

The display will be `dSP rES`. Press [◁] key once.

Confirm that the display is `5u` display.

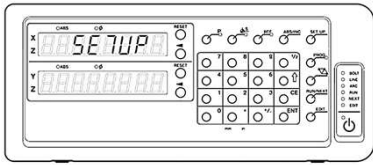(Press [+/-] key to change the polarity)

When the selection is complete, press [ENT] key to save the settings.

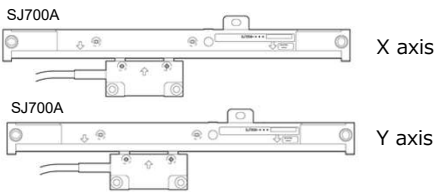When you press [RESET] key, the display becomes the normal display.

This completes the initial settings

Finished

Magnescale
SPEED X PRECISION

Display unit: LH71-2 (2 axes input)

Setting conditions The detailed settings are the factory default settings.

Measuring unit

SJ700A (2 axes)

Output resolution: 5μm

SJ700A ... X axis

SJ700A ... Y axis

	Setting items		Setting value (selection)	
Basic settings	TYPE	`7YPE`	2 axes model is not displayed	
	ADD(Addition display)	`Add`	2 axes model is not displayed	
	Destination	`COUN7rY`	(default) STD	`57d`
	Measuring unit resolution	`S1G rES`	5μm	`5u`
Detailed settings	Display resolution* and polarity	`dSP rES`	5μm	`5u`
	Display switching	`INPU7 CHANGE`	(default) Input 1:Upper display	`IN - 1`
			Input 2:Middle display	`IN - 2`
	Axis label	`LAbEL`	(default) Upper : X, Middle : Y	
	Scaling	`SCALING`	(default) 1 time (1.000000)	`1000000`
	Compensation value	`Err SE7`	(default) No setting（OFF）	`Err OFF`
	Flicker control	`FLICKEr`	(default) Strong (2)	`2`
	Sleep	`SLEEP`	(default) No setting（OFF）	`OFF`

* The initial value is the measurement unit resolution set in the basic settings.

START

Set to basic setting mode

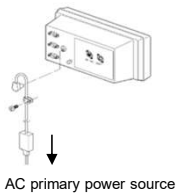**When the power is turned on for the first time after shipment from the factory**

Connect the AC adapter and Turn on the primary power supply

(Not [⏻] key)

AC primary power source

When you want to change the basic settings

AC adapter is energized.

Turn on [⏻] key,

the LED light changes from "blinking" to "off" and then

Press and hold [SET UP] key for 3 seconds.

The following display appears

For LH71-1, LH71-2

`SE7UP` → `COUN7rY`

SET UP ⟶ COUNTRY
After about 2 seconds

① When the display is `COUN7rY`, press the [ ] key on the right side once.

The display will be `57d`. (Destination selection mode)

(If you want to change the destination, press [ ] key.)

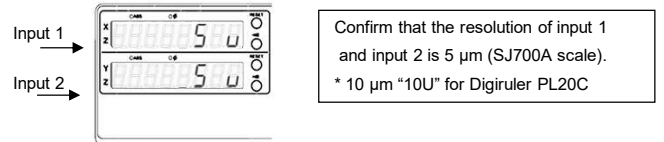When you have made your selection, press [ENT] to save your settings.

② Press [⇧] key once.

The display will be `S1G rES`. (Measurement unit resolution)

Press [ ] key to check the current measurement unit resolution.

If the resolution is not 5μm, press [ ] key to change it.

After checking the resolution, press [ENT] key to save the settings.

Input 1 → `5u`
Input 2 → `5u`

Confirm that the resolution of input 1 and input 2 is 5 μm (SJ700A scale).
* 10 μm "10U" for Digiruler PL20C

③ Switch from basic settings to normal count mode.

Press [RESET] key once and the display will change to `CANCEL`.

Press [ ] key once and the display will change to `FINISH`.

④ Press [ENT] key once to automatically switch to advanced settings mode.

The display will be `dSP rES`. Press [ ] key once.

Confirm that the display is `5u` display.
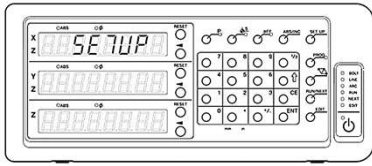
(Press [+/-] key to change the polarity)

When the selection is complete, press [ENT] key to save the settings.

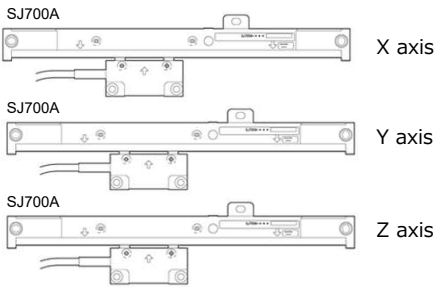When you press [RESET] key, the display becomes the normal display.

This completes the initial settings

Finished

Magnescale
SPEED X PRECISION

Display unit: LH71-3 (3 axes input)

Measuring unit

SJ700A (3 axes)
Output resolution: 5µm

SJ700A — X axis
SJ700A — Y axis
SJ700A — Z axis

Setting conditions

The detailed settings are the factory default settings.

	Setting items		Setting value (selection)	
Basic settings	TYPE	74PE	GENERAL (General machine)	GENErAL
	ADD(Addition display)	Add	Not displayed when GENERAL is selected	
	Destination	COUN7rY	(default) STD	S7d
	Measuring unit resolution	SIG rES	5µm	5 u
Detailed settings	Display resolution* and polarity	dSP rES	5µm	5 u
	Display switching	INPU7 CHANGE	(default) Input 1: Upper display / Input 2: Middle display / Input 3: Lower display	IN - 1 / IN - 2 / IN - 3
	Axis label	LAbEL	(default) Upper : X, Middle : Y, Lower : Z	
	Scaling	SCAL ING	(default) 1 time（1.000000）	1000000
	Compensation value	Err SE7	(default) No setting（OFF）	Err OFF
	Flicker control	FL ICHEr	(default) Strong　(2)	2
	Sleep	SLEEP	(default) No setting（OFF）	OFF

* The initial value is the measurement unit resolution set in the basic settings.

START

Set to basic setting mode

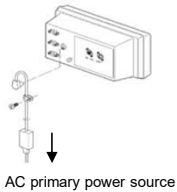**When the power is turned on for the first time after shipment from the factory**

Connect the AC adapter and Turn on the primary power supply

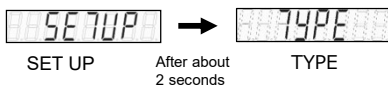(Not ⏻ key)

AC primary power source

When you want to change the basic settings

AC adapter is energized.

Turn on ⏻ key, the LED light changes from "blinking" to "off" and then Press and hold SET UP key for 3 seconds.

The following display appears

For LH71A-3

SE7UP → 74PE

SET UP — After about 2 seconds — TYPE

① When the display is 74PE , **press the ○⇧ key once.**

The display will be COUN7rY . (Destination selection mode)

Press ◀○ key on the right side once.

The display will be S7d .

(If you want to change the destination, press ○ key.)

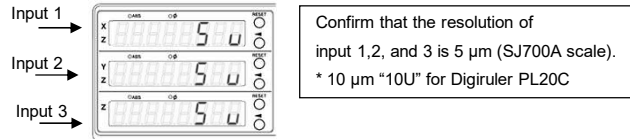When you have made your selection, press ○ENT to save your settings.

② Press ○⇧ key once.

The display will be SIG rES . (Measurement unit resolution)

Press ◀○ key to check the current measurement unit resolution.

If the resolution is not 5µm, press ◀○ key to change it.

After checking the resolution, press ○ENT key to save the settings.

Input 1 →
Input 2 →
Input 3 →

Confirm that the resolution of input 1,2, and 3 is 5 µm (SJ700A scale).
* 10 µm "10U" for Digiruler PL20C

③ Switch from basic settings to normal count mode.

Press RESET○ key once and the display will change to CANCEL .

Press ◀○ key once and the display will change to F IN ISH .

④ Press ○ENT key once to automatically switch to advanced settings mode.

The display will be dSP rES . Press ◀○ key once.

Confirm that the display is 5 u display.

(Press +/-○ key to change the polarity)

When the selection is complete, press ○ENT key to save the settings.

When you press RESET○ key, the display becomes the normal display.

This completes the initial settings

Finished