

IR Brix Meter PAL-HIKARI

Top page » Search by products » Digital Hand-held "Pocket" IR Brix Meter PAL-HIKARI

Plenty accurate
with no cumbersome

Digital Hand held
"Pocket" IR Brix Meter

HIKARI

[Four points](#)

[Features](#)

[Function and design](#)

[Product Details](#)

Detail page of each product is here



Plenty accurate
with no cumbersome

Digital Hand held
"Pocket" IR Brix Meter

HIKARI



Detail page of each product is here



Awards received



Four points

1. Touch the surface of fruit

The Brix (sugar level) can be measured by placing the fruit on the sample stage with no need of cutting or squeezing. It requires no more cumbersome wiping and cleansing after each measurement.



2. Total inspection is possible

All it takes is to put it against a fruit so each individual fruits' brix (sugar level) can be inspected. The measured fruits are intact and can then be shipped and sold after measurement. Fruits that were measured then can be shipped and sold thereupon.

3. Super lightweight that fits in you pocket

PAL-HIKARi sensor is the world most compact nondestructive refractometer. The button located on the lateral side of the unit



makes it possible to take measurements with one hand while the fruits that are on the tree. The unit is battery powered which makes it possible to take measurements anywhere.



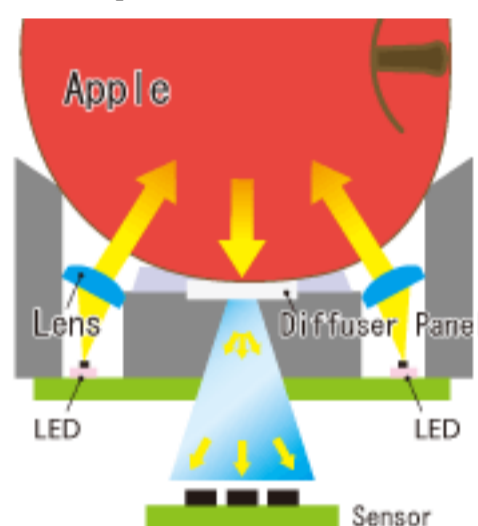
4. Fits well on the surface of a fruit

The sponge on PAL-HIKARi allows for a secure surface contact with fruits. Regardless of the fruit shape, PAL-HIKARi's fits snug which eliminates measurement discrepancies caused by external light interference or placement of the fruits.

Features

■ Compact and Low Price

■ Compact and Low Price



The light source is employed with LED chips. With optic design the way in which the light is directed at the fruit. The way in which the light is directed at the fruit is well optic designed

made it possible for no other like compact and low price. No other like compact and low price instrument was made possible with well thoughtout optic design that allows the light that is directed to the fruit. Well thoughtout optic design shines light to the fruit just right, making it possible for no other like instrument that is compact and low priced. Its portability and affordability allows the unit to be available for individual consumers. Available for anyone to use with ease of portability and affordability that individual customers can use.

■ Measurement methods are wasy , 2 ways to measure

■ Safe and durable product made in Japan

■ Safe and durable product made in Japan



All ATAGO products are designed, manufactured, and undergo thorough quality assurance testing in our own factory in Japan. We guarantee safe, reliable,

high-quality products and services to our customers. The warranty period for the PAL-HIKARi is 1 year. In the event that any servicing or repair is required, please contact ATAGO.

■ Equipped with ELI Function

■ Measurement methods are easy • 2 ways to measure

Touch



Press against an apple, then press the side button.

Place



Place an apple, then press the START button.

Place the instrument against the fruit or place the fruit on the instrument.

Measurement will display with just a press of a button.

The buzzer alarm that relays measurement completion or error makes it easy to tell if it is taking the measurement. Equipped with backlight, taking measurements in dark places are possible.

■ Equipped with ELI Function



PAL-HIKARi is equipped with ELI function that will detect interfering external light allowing to take measurement outdoors,

while the fruits are on the tree. When external light is detected, "nnn" is displayed

Function and design

Apple ,Peach,Asian Pear

Light emitting part

Radiation temperature sensor

Receiver

Inner cushion

Outer cushion

LCD

START button

Menu button



Side button

Sample Stage

Strap Holder

Battery Compartment



Light emitting part (*)

Radiation temperature sensor

Receiver

Silicon cushion

LCD

START button

Menu button

Side button

Small sample stage S

Lanyard hole

Battery Compartment



*It will be in the same position as apples, pears and peaches

Use Scene



Besides aforementioned, pâtissier chefs who uses fruits as an ingredient, gardening hobbyist that enjoys home gardening and may more can be use it.

Use as a Set

IR Brix Meter+Brix Meter



Sweetness from the inside out

Introducing IR Brix meter & Brix meter combo set!

A combo set of PAL-HIKARi, a non-destructive IR Brix Meter that can measure the sugar content by pressing it against the fruit and Brix meter that can measure the sugar content by placing some squeezed fruit juice is now available.

Special scales are available for each fruits. Choose the combo set of your choice.

- IR Brix Meter × Brix Meter (Cherry)
- IR Brix Meter × Brix Meter (Cherry Tomatoes & Medium Tomatoes)
- IR Brix Meter × Brix Meter (Grapes)
- IR Brix Meter × Brix Meter (Apple)
- IR Brix Meter × Brix Meter (Peach)
- IR Brix Meter × Brix Meter (Asian Pear)

IR Brix Meter × Brix Acidity Meter



Determine deliciousness with a balance of sweetness and sourness!

Introducing IR Brix meter & Brix/Acidity meter combo set!

A combo set of PAL-HIKARi, a non-destructive IR Brix Meter that can measure the sugar content by pressing it against the fruit and PAL-BX/ACID, a Brix acidity meter that can measure the sugar content by placing some squeezed fruit juice is now available. Special scales are available for each fruits. Choose the combo set of your choice.

- IR Brix Meter × Brix Acidity Meter (Cherry Tomatoes & Medium Tomatoes)
- IR Brix Meter × Brix Acidity Meter (Grape)
- IR Brix Meter × Brix Acidity Meter (Apple)
- IR Brix Meter × Brix Acidity Meter (Asian Pear)

Pocket IR Brix Meter PAL-HIKARi 2 (Grapes)



Shine Muscat and other grapes can be measured with one instrument

The Brix (sugar level) can be measured by placing the fruit on the sample stage with no need of cutting or squeezing.

It requires no more cumbersome wiping and cleansing after each measurement.

Specifications

Model	PAL-HIKARi 2
Cat.No.	5452
Measurement item	Brix
Measurement fruit	Grapes (Recommended sample size is 15 mm or greater in diameter.)
Range	10.0 to 25.0%
Resolution	0.1%
Accuracy	±1.5%(Guaranteed accuracy range:15.0 to 30.0°C) *Grape varieties and measurement environment may affect accuracy.
Repeatability	±1%
Temperature compensation	15.0 to 30.0°C *acclimate grape to ambient temperature.
Power Supply	2 x AAA alkaline batteries
International Protection Class	IP64
Dimensions & Weight	61(W)×64(D)×115(H)mm, 153g (Main Unit only)

Parts

- Small sample stage S : RE-38191
- Spare cushion S (2 pieces) : RE-39007
- Outdoor cover S : RE-39009

Cherry Tomatoes can be measured with one instrument

The Brix (sugar level) can be measured by placing the fruit on the sample stage with no need of cutting or squeezing.

It requires no more cumbersome wiping and cleansing after each measurement.



Enlargement



Send an inquiry

Quantity

Request Quotation

Pocket IR Brix Meter PAL-HIKARi 3 MINI (Cherry Tomatoes)



Pocket IR Brix Meter PAL-HIKARi 5 (Apple)



Pocket IR Brix Meter PAL-HIKARi 10 (Peach)



Pocket IR Brix Meter PAL-HIKARi 12 (Asian pear)



Pocket IR Brix Meter PAL-HIKARi 16 (Cherry)



IR Brix Meter × Brix Meter PAL-0 (Grapes)



IR Brix Meter × Brix Meter PAL-0 (Cherry Tomatoes)



IR Brix Meter × Brix Meter PAL-0 (Apple)



Specifications	
Model	PAL-HIKARi 3 MINI
Cat.No.	5453
Measurement item	Brix
Measurement fruit	Cherry Tomatoes
Range	3.0 to 15.0%
Resolution	0.1%
Accuracy	±1.5% Accuracy may be affected by product type and measurement environment
Repeatability	±1%
Temperature compensation	15.0 to 35.0°C *acclimate Cherry Tomatoes to ambient temperature.
Power Supply	2 x AAA alkaline batteries
International Protection Class	IP64
Dimensions & Weight	61(W)×64(D)×115(H)mm, 153g (Main Unit only)

Parts	
<ul style="list-style-type: none"> · Small sample stage S : RE-38191 · Spare cushion S (2 pieces) : RE-39007 · Outdoor cover S : RE-39009 	

Touch the surface of fruit

The Brix (sugar level) can be measured by placing the fruit on the sample stage with no need of cutting or squeezing. It requires no more cumbersome wiping and cleansing after each measurement.

Specifications	
Model	PAL-HIKARi 5
Cat.No.	5455
Measurement item	Brix
Measurement fruit	Apple
Range	10.0 to 18.0%



[Enlargement](#)

Quantity [Request Quotation](#)

IR Brix Meter × Brix Meter
PAL-0 (Peach)



IR Brix Meter × Brix Meter
PAL-0 (Asian Pear)



IR Brix Meter × Brix Meter
PAL-0 (Cherry)



IR Brix Meter × Brix Acidity
Meter PAL:HIKARi 2 + BX |
ACID2 (Grapes)



IR Brix Meter × Brix Acidity
Meter PAL:HIKARi3MINi +
BX | ACID3 (Cherry
Tomatoes)



[Enlargement](#)

[Send an inquiry](#)

Quantity [Request Quotation](#)

Resolution	0.1%
Accuracy	±1% *Apple varieties and measurement environment may affect accuracy.
Repeatability	±0.5%
Temperature compensation	5.0 to 35.0°C *acclimate apple to ambient temperature.
Power Supply	2 x AAA alkaline batteries
International Protection Class	IP64
Dimensions & Weight	61(W)×44(D)×115(H)mm, 120g (Main Unit only)



IR Brix Meter × Brix Acidity Meter PAL:HIKARi 5 + BX | ACID5 (Apple)



IR Brix Meter × Brix Acidity Meter PAL:HIKARi 12 + BX | ACID12 (Asian Pear)



Parts

- Spare cushion R (3 sets) : RE-39003

Touch the surface of fruit

The Brix (sugar level) can be measured by placing the fruit on the sample stage with no need of cutting or squeezing. It requires no more cumbersome wiping and cleansing after each measurement.

Specifications

Model	PAL-HIKARi 10
Cat.No.	5460
Measurement item	Brix
Measurement fruit	Peach
Range	8.0 to 20.0%
Resolution	0.1%
Accuracy	±1.5% *Peach varieties and measurement environment may affect accuracy.
Repeatability	±1%
Temperature compensation	5.0 to 35.0°C *acclimate peach to ambient temperature
Power Supply	2 x AAA alkaline batteries
International Protection	IP64



Enlargement



Send an inquiry

Quantity

[Request Quotation](#)

Class	
Dimensions & Weight	61(W)×44(D)×115(H)mm, 120g (Main Unit only)

Parts

- Spare cushion R (3 sets) : RE-39003

Touch the surface of fruit

The Brix (sugar level) can be measured by placing the fruit on the sample stage with no need of cutting or squeezing. It requires no more cumbersome wiping and cleansing after each measurement.

Specifications

Model	PAL-HIKARi 12
Cat.No.	5462
Measurement item	Brix
Measurement fruit	Pear
Range	10.0 to 16.0%
Resolution	0.1%
Accuracy	±1% *Pear varieties and measurement environment may affect accuracy.
Repeatability	±0.5%
Temperature compensation	5.0 to 35.0°C *acclimate pear to ambient temperature
Power Supply	2 x AAA alkaline batteries
International Protection Class	IP64
Dimensions & Weight	61(W)×44(D)×115(H)mm, 120g (Main Unit only)

Parts

- Spare cushion R (3 sets) : RE-39003

Cherry can be measured with one instrument

The Brix (sugar level) can be measured by placing the fruit on the sample stage with no need of cutting or squeezing.



 Enlargement



Send an inquiry

Quantity

[Request Quotation](#)

It requires no more cumbersome wiping and cleansing after each measurement.

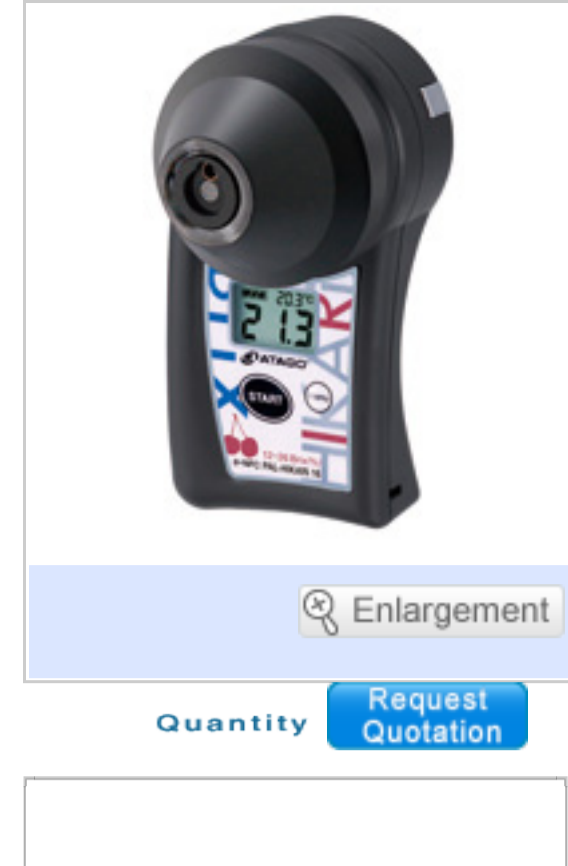
Specifications	
Model	PAL-HIKARi 16
Cat.No.	5466
Measurement item	Brix
Measurement fruit	Cherry
Range	12.0 to 26.0%
Resolution	0.1%
Accuracy	±1.5%(Guaranteed accuracy range:10.0 to 35.0°C) *Accuracy may be affected by product type and measurement environment
Repeatability	±1%
Temperature compensation	15.0 to 30.0°C *acclimate Cherry to ambient temperature
Power Supply	2 x AAA alkaline batteries
International Protection Class	IP64
Dimensions & Weight	61(W)×64(D)×115(H)mm, 153g (Main Unit only)

Parts	
<ul style="list-style-type: none"> · Small sample stage S : RE-38191 · Spare cushion S (2 pieces) : RE-39007 · Outdoor cover S : RE-39009 	

Two-piece IR Brix meter and Brix meter bundle

Now available as a bundle set of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-0" which measures Brix of squeezed fruits juice.The following specification is for "PAL-0." See PAL-HIKARi2's specification [here](#).

Specifications	
Model	PAL-0
Cat.No.	5552
Range	Brix: 0.0 to 33.0% Temperature: 10~100°C



Resolution	Brix: 0.1% Temperature: 0.1°C
Accuracy	Brix: ±0.2% Temperature: ±1°C
Measurement Temperature	10 to 40°C
Temperature compensation	10 to 100°C
Power Supply	2×AAA alkaline batteries
International Protection Class	IP65
Dimensions & Weight	5.5×3.1×10.9cm 100g (main unit only)
Set Contents	1: IR Brix meter PAL-HIKARi 2 (Grapes) 2: PAL-0 *PAL-0 is only available for IR Brix Meter × Brix Meter. It cannot be purchased separately.

Two-piece IR Brix meter and Brix meter bundle

Now available as a bundle set of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-0" which measures Brix of squeezed fruits juice. The following specification is for "PAL-0." See PAL-HIKARi 3MINi's specification [here](#).

Specifications	
Model	PAL-0
Cat.No.	5553
Range	Brix: 0.0 to 33.0% Temperature: 10~100°C
Resolution	Brix: 0.1% Temperature: 0.1°C
Accuracy	Brix: ±0.2% Temperature: ±1°C
Measurement Temperature	10 to 40°C
Temperature compensation	10 to 100°C
Power Supply	2×AAA alkaline batteries
International	



Enlargement

Quantity [Request Quotation](#)

Protection Class	IP65
Dimensions & Weight	5.5×3.1×10.9cm 100g (main unit only)
Set Contents	1: IR Brix meter PAL-HIKARi 3MINi (Cherry Tomatoes) 2: PAL-0 *PAL-0 is only available for IR Brix Meter × Brix Meter. It cannot be purchased separately.

Two-piece IR Brix meter and Brix meter bundle

Now available as a bundle set of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-0" which measures Brix of squeezed fruits juice. The following specification is for "PAL-0." See PAL-HIKARi5's specification [here](#).

Specifications	
Model	PAL-0
Cat.No.	5555
Range	Brix: 0.0 to 33.0% Temperature: 10~100°C
Resolution	Brix: 0.1% Temperature: 0.1°C
Accuracy	Brix: ±0.2% Temperature: ±1°C
Measurement Temperature	10 to 40°C
Temperature compensation	10 to 100°C
Power Supply	2×AAA alkaline batteries
International Protection Class	IP65
Dimensions & Weight	5.5×3.1×10.9cm 100g (main unit only)
Set Contents	1: IR Brix meter PAL-HIKARi 5 (Apple) 2: PAL-0 *PAL-0 is only available for IR Brix Meter × Brix Meter. It cannot be purchased separately.



Two-piece IR Brix meter and Brix meter bundle

Now available as a bundle set of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-0" which measures Brix of squeezed fruits juice. The following specification is for "PAL-0." See PAL-HIKARi 10's specification [here](#).

Specifications	
Model	PAL-0
Cat.No.	5560
Range	Brix: 0.0 to 33.0% Temperature: 10~100°C
Resolution	Brix: 0.1% Temperature: 0.1°C
Accuracy	Brix: ±0.2% Temperature: ±1°C
Measurement Temperature	10 to 40°C
Temperature compensation	10 to 100°C
Power Supply	2×AAA alkaline batteries
International Protection Class	IP65
Dimensions & Weight	5.5×3.1×10.9cm 100g (main unit only)
Set Contents	1: IR Brix meter PAL-HIKARi 10 (Peach) 2: PAL-0 *PAL-0 is only available for IR Brix Meter × Brix Meter. It cannot be purchased separately.

Two-piece IR Brix meter and Brix meter bundle

Now available as a bundle set of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-0" which measures Brix of squeezed fruits juice.

The following specification is for "PAL-0." See PAL-HIKARi 12's specification [here](#).

Specifications	
Model	PAL-0
Cat.No.	5562
Range	Brix: 0.0 to 33.0% Temperature: 10~100°C
	Brix: 0.1%



Enlargement



Send an inquiry

Quantity

Request Quotation



Enlargement



Send an inquiry

Quantity

Request Quotation

Resolution	Temperature: 0.1°C
Accuracy	Brix: ±0.2% Temperature: ±1°C
Measurement Temperature	10 to 40°C
Temperature compensation	10 to 100°C
Power Supply	2×AAA alkaline batteries
International Protection Class	IP65
Dimensions & Weight	5.5×3.1×10.9cm 100g (main unit only)
Set Contents	1: IR Brix meter PAL-HIKARi 12 (Asian Pear) 2: PAL-0 *PAL-0 is only available for IR Brix Meter × Brix Meter. It cannot be purchased separately.

Two-piece IR Brix meter and Brix meter bundle

Now available as a bundle set of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-0" which measures Brix of squeezed fruits juice. The following specification is for "PAL-0." See PAL-HIKARi16's specification [here](#).

Specifications	
Model	PAL-0
Cat.No.	5566
Range	Brix: 0.0 to 33.0% Temperature: 10~100°C
Resolution	Brix: 0.1% Temperature: 0.1°C
Accuracy	Brix: ±0.2% Temperature: ±1°C
Measurement Temperature	10 to 40°C
Temperature compensation	10 to 100°C
Power Supply	2×AAA alkaline batteries
International Protection	IP65



Enlargement

Quantity

Class	
Dimensions & Weight	5.5×3.1×10.9cm 100g (main unit only)
Set Contents	1: IR Brix meter PAL-HIKARi 16(Cherry) 2: PAL-0 *PAL-0 is only available for IR Brix Meter × Brix Meter. It cannot be purchased separately.

Two-piece IR Brix meter and Brix acidity meter bundle

Now available as a bundle of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-BX/ACID" which measures Brix and acidity of squeezed fruit juice.

Specifications	
Model	PAL:HIKARi 2 + BX ACID2
Cat.No.	5652
Measurement fruit	PAL-HIKARi 2 • Grapes(Recommended sample size is 25mm or more in diameter.) • Shine Muscat PAL-BX ACID 2 • Grapes & Wine
Set Contents	1: Digital Hand-held "Pocket" IR Brix Meter PAL-HIKARi 2 (Grapes) * Click here for more details 2: Brix Acidity Meter PAL-BX ACID2 (Grape&Wine) * Click here for more details



Two-piece IR Brix meter and Brix acidity meter bundle

Now available as a bundle of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-BX/ACID" which measures Brix and acidity of squeezed fruit juice.

Specifications	
Model	PAL:HIKARi3MINi + BX ACID3
Cat.No.	5653
Measurement fruit	PAL-HIKARi 3MINi • Cherry Tomatoes PAL-BX ACID 3 • Tamato
Set Contents	1: Digital Hand-held "Pocket" IR Brix Meter PAL-HIKARi 3MINi (Cherry Tomatoes)



Set Contents	<ul style="list-style-type: none"> * Click here for more details
	2: Brix Acidity Meter PAL-BX ACID3 (Tamato)
	<ul style="list-style-type: none"> * Click here for more details

Two-piece IR Brix meter and Brix acidity meter bundle

Now available as a bundle of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-BX/ACID" which measures Brix and acidity of squeezed fruit juice.

Specifications	
Model	PAL:HIKARi 5 + BX ACID5
Cat.No.	5655
Measurement fruit	PAL-HIKARi 5 • Apple PAL-BX ACID 5 • Apple
Set Contents	1: Digital Hand-held "Pocket" IR Brix Meter PAL-HIKARi 5 (Apple) <ul style="list-style-type: none"> * Click here for more details 2: Brix Acidity Meter PAL-BX ACID5 (Apple) <ul style="list-style-type: none"> * Click here for more details



[Enlargement](#)



[Send an inquiry](#)

Quantity

[Request Quotation](#)

Two-piece IR Brix meter and Brix acidity meter bundle

Now available as a bundle of "PAL-HIKARi" non-destructive Brix meter that can measure Brix of fruits and "PAL-BX/ACID" which measures Brix and acidity of squeezed fruit juice.

Specifications	
Model	PAL:HIKARi 12 + BX ACID12
Cat.No.	5662
Measurement fruit	PAL-HIKARi 12 • Pear PAL-BX ACID 12 • Asian Pear&Kosui
Set Contents	1: Digital Hand-held "Pocket" IR Brix Meter PAL-HIKARi 12 (Asian Pear) <ul style="list-style-type: none"> * Click here for more details 2: Brix Acidity Meter PAL-BX ACID12 (Asian Pear&Kosui) <ul style="list-style-type: none"> * Click here for more details



[Enlargement](#)



[Send an inquiry](#)

Quantity

[Request Quotation](#)

What's New	Products	User Support	E-commerce	Data Book	Company
New Products	Search by products	Contact Us	Amazon UK	Refractometer	Message
Exhibition	Search by usage	Warranty Registration	eBay	Salt Meter	About us
News	Search by customers	World Service Center	Lazada	Polarimeter	Philosophy
				pH Meter	Creditworthiness
				Acidity Meter	History
				Viscometer	Hear from our employees
					Location

