

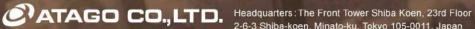
	PAL-COFFEE Cat.No.4523	PAL-COFFEE(TDS) Cat.No.4532	PAL-COFFEE(BX/TDS) Cat.No.4533		
Measurement Range	Brix: 0.00 to 25.00%(ATC) Temperature: 10.0 to 100°C	TDS : 0.00 to 22.00%(ATC) Temperature : 10.0 to 100°C	Brix: 0.00 to 25.00%(ATC) TDS: 0.00 to 22.00%(ATC) Temperature: 10.0 to 100°C		
Resolution	Brix: 0.01% Temperature: 0.1°C	TDS: 0.01% Temperature: 0.1°C	Brix : 0.01%, TDS : 0.01% Temperature : 0.1°C		
Measurement Accuracy	Brix : ±0.10% Temperature :±1°C	TDS:±0.10% Temperature:±1°C	Brix : ±0.10%, TDS : ±0.10% Temperature :±1°C		
Temperature compensation range	10 to 100°C (Automatic Temperature Compensation)				
Ambient Temperature	10 to 40°C				
Sample Volume	At least 0.3ml				
Measurement Time	Approx. 5 seconds 120 seconds of continuous measurement Approx. 3 seconds				
Power Supply	Two (2) AAA alkaline batteries				
International Protection Class	IP65 Dust-tight and Protected against water jets.				
Dimensions and Weight	55 (W) × 31 (D) × 109 (H)mm,100g (main unit only)				

• To control coffee concentration using TDS%, PAL-COFFEE (TDS) is recommended.

ATC=Automatic Temperature Compensation

• To ascertain both Brix% and TDS%, PAL-COFFEE (BX/TDS) is recommended.

All ATAGO refractometers are designed and manufactured in Japan.



2-6-3 Shiba-koen, Minato-ku, Tokyo 105-0011, Japan

CATAGO INDIA Instruments Pot. Ltd. CATAGO ITALIA S. P. I. CATAGO RUSSIA Ltd.

ATAGO BRASIL Ltda. ATAGO CHINA Guangzhou Co., Ltd.

CATAGO THAILAND Co., Ltd.

ATAGO U.S.A., Inc.

* Specifications and appearance are subject to change without notice.

ENV.02 15011000PP Printed in Japan

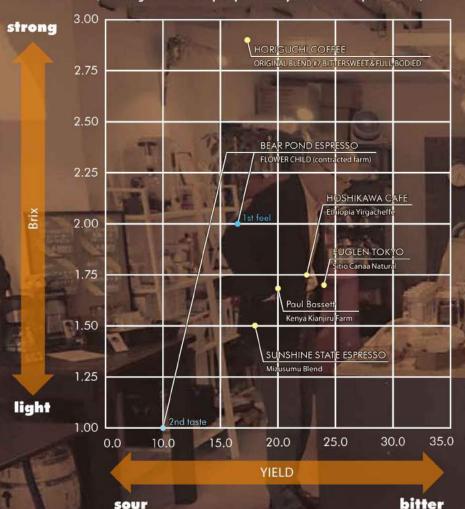


Digital Hand-held "Pocket" Refractometer





Brix and Yield (with target value examples provided by our coffee shop customers)



Yield calculation example

When 140g (ml) of coffee brewed from 12g of grounds measures 1.8% Brix:

When 1,600g (ml) of coffee brewed from 100g of grounds measures 1.6% Brix:

$$\frac{1.6 \times 1600}{100} = 25.6\%$$

Typical correlation

•Too low a yield = sour-tasting coffee

•High Brix = strong coffee

•Too high a yield = bitter-tasting coffee •Low Brix = weak coffee

*The Brix/concentration of coffee may not always be indicative of its yield.

Before & After Measurement

• Zero-set the unit with room temperature water. Make sure that both the unit and water for zero-setting have been acclimated to room temperature.

· Keep the prism clean.

Residues left behind may cause erroneous readings. Clean the prism thoroughly after each measurement. Cotton swabs work well for cleaning the edges.

Tips for Measuring Different Types of Coffee

Common for all types

The concentration of coffee changes over the course of the extraction process.

Gently stirring the coffee will even out the consistency and promote measurement stability.

•French press coffee

Pour the coffee into a cup and let it sit undisturbed for a while to allow particles to sink to the bottom. Avoid sampling from the oily surface.

Espresso

Espresso generally contains more particles than drip coffee. Measurement fluctuation by 0.5% is common.

When cupping

Scoop out any floating grounds and oil thoroughly as they may cause unstable measurements



Ideal for top quality coffee recipe management.

MY COFFEE RECIPE

App Store

deal for top quality coffee recipe management



open iTunes to buy and download this application





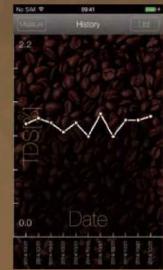












No SIM ®	History		(Siant)
2014/10/21	OXT17.16	TD9 152	a
2114/621	EXT 16.64	105 t.28	
2014/021	EXCIO.61	108 128	41
2014/10/21	EX NED	109.110	
			a
2010/10/21	EXT1130	103.1.10	
2014/10/21	EXT.16.25	TD8:1.25	
astenosh	EXTRES		
2014/10/21	EXTERS 25	108 à 25	
2014/10/21	EXT16.09	TDS:120	
2014/10/21	DCT16.12-		

Bear Pond Espresso is in premises that were once the old Otsuki candy store, and retains that vintage feel in a simple whitewashed interior. The coffee that owner-barista Katsuyuki Tanaka brews is truly one of a kind, found nowhere else. Experience Bear Pond's knock-out blend of the bitter, the acidic and the sweet in one unforgettable cup. And behind this stunningly good coffee is top-class barista Tanaka managing it all, from bean selection to roasting. And supporting his work with readings of the values is PAL-COFFEE.

BEAR POND ESPRESSO

Renowned New York-style espresso shop







BEAR POND ESPRESSO

2-36-12 Kitazawa, Setagaya-ku, Tokyo Japan TEL:81-3-5454-2486 http://www.bear-pond.com

Norway is known throughout the world for coffee brewed to the most exacting standards, and an amazing little café from the capital, Oslo, has made its way to Japan. Fuglen Tokyo is a fusion of high-quality coffee bar, cocktail bar and vintage design furniture store, exuding a truly Norwegian air. Whichever coffee you go for will stand out for its finely tuned balance. The secret: a brewing recipe to draw out those flavors, and PAL-COFFEE-assisted control of body.

FUGLEN TOKYO

World-class coffee in Yoyogi







FUGLEN TOKYO

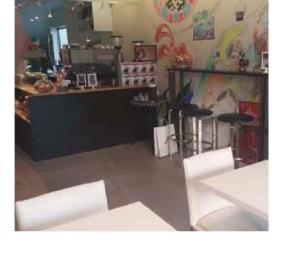
1-16-11 Tomigaya, Shibuya-ku, Tokyo Japan TEL:81-3-3481-0884 http://www.fuglen.com Sunshine State Espresso is a coffee specialty shop that opened in Honjo in November 2012. It offers store-roasted specialty coffees: blends and several single-origins. What sets Sunshine State apart is its long black, brewed from store-roasted single-origin beans. Besides its assured quality, this is coffee you want to keep drinking, coffee that has you sit back contented. PAL-COFFEE works together with Sunshine State, settling on the right recipes, providing seminars, and more.

SUNSHINE STATE ESPRESSO

Coffee with a freer, lighter touch







SUNSHINE STATE ESPRESSO

1-34-7 Honjo, Sumida-ku, Tokyo Japan TEL: 81-3-6456-1806 http://sunshinestateespresso.com

Allpress Espresso is a roaster from New Zealand that provides cafés and restaurants with carefully selected specialty coffee beans. In addition to supplying fresh roasted beans, Allpress provides all-round support for the café industry through barista training, equipment maintenance, menu development and more. In August 2014, the Allpress Espresso Tokyo Roastery and Café is due to open as the company's Japan base in Tokyo's Kiba district. Customers will be able to enjoy a "perfect cup" whose just-right body is achieved with the help of PAL-COFFEE.

ALLPRESS ESPRESSO

The ultimate espresso, born of good beans, good water, good equipment, good people.







ALLPRESS ESPRESSO

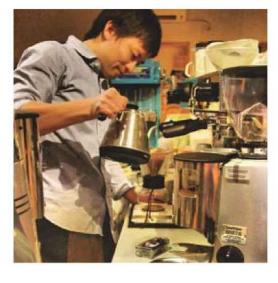
Yano Daisan Bldg. 601, 2-6-4 Tomioka, Koto-Ku, Tokyo Japan TEL: 81-3-5875-9392 http://ip.allpressespresso.com The Hoshikawa Café occupies a relaxing, wood-finished space in Kumagaya, Saitama. With only a few seats, the café is nevertheless a popular destination. Customers flock here for the owner's service, the coffee brewed from coffee beans airfreighted from Norway, and the pancakes baked from locally produced flour. The coffee to order here has to be the single origin brewed in a coffee press. The hot coffee is good, too, but their iced coffee is alluring in summer. There is probably nowhere else in Saitama to enjoy coffee this invigorating and clean-tasting. PAL-COFFEE is put to work in settling on the coffee brewing recipes.



The flavor of Norway in northern Saitama







HOSHIKAWA CAFE

1-77 Hoshikawa, Kumagaya-shi, Saitama-ken Japan TEL:81-48-594-7574 http://www.hoshikawa-cafe.com

The espresso that won the 2003 World Barista Championship can be enjoyed in Shinjuku and in the Hikarie ShinQs shopping mall in Shibuya. For espresso, choose between single origin and blend, both featuring exquisite balance between mouthfeel, acidity and other elements. The cafés have their own roaster, so you can watch the roasting take place before you. PAL-COFFEE helps ensure that Paul Bassett espresso maintains its uniform world-class brewing.



A coffee shop with the cred of a champion barista







Paul Bassett Shinjuku

Shinjuku Nomura Bldg. B1F, 1-26-2 Nishishinjuku, Shinjuku-ku, Tokyo Japan TEL:81-3-5324-5090

http://www.paulbassett.jp

Paul Bassett Shibuya Hikarie ShinQs

Shibuya Hikarie ShinQs B2F, 2-21-1 Shibuya, Shibuya-ku, Tokyo Japan

TEL:81-3-5468-3165 http://lcdhpb.jp Horiguchi Coffee occupies a onetime retail space refurbished in April 2013, and besides its carefully selected in-season coffee beans boasts an impressive line-up of coffee-related equipment. The café space serves a variety of coffees from drip coffee to fancier variations, with a daily changing menu of parfaits and sandwiches. The Setagaya branch offers the added enjoyment of an espresso menu. PAL-COFFEE is used here to consistently recreate those winning flavors.



The New Coffee Classic







HORIGUCHI COFFEE

The Setagaya branch:1-12-15 Funabashi, Setagaya-ku, Tokyo Japan TEL:81-3-5477-4142

The Komae branch: 1-1-30 Izumihoncho, Komae-shi, Tokyo

Japan TEL:81-3-5438-2143 http://www.kohikobo.co.jp

No more fluctuation! Secret to stable measurements.

When measuring hot coffee with a conventional refractometer, the readings tend to fluctuate at the beginning. This is because it takes some time for the temperature of the coffee to be detected by the refractometer's sensor.

The PAL-COFFEE waits until the sample temperature is measured accurately to start measuring, producing accurate, stable readings. While it depends on the brewing method, it takes quite a while for freshly brewed coffee above

80°C to cool down completely.

With the PAL-COFFEE, measurement fluctuation has been reported to be less than 0.1%. This high repeatability enables even inexperienced users to achieve accurate results.

It is recommended to take 3 consecutive measurements to ensure absolute accuracy. You can be confident that the 3rd reading is the fully stabilized value.

