ACCUNIQ

BC300

SENSATIONAL DESIGN

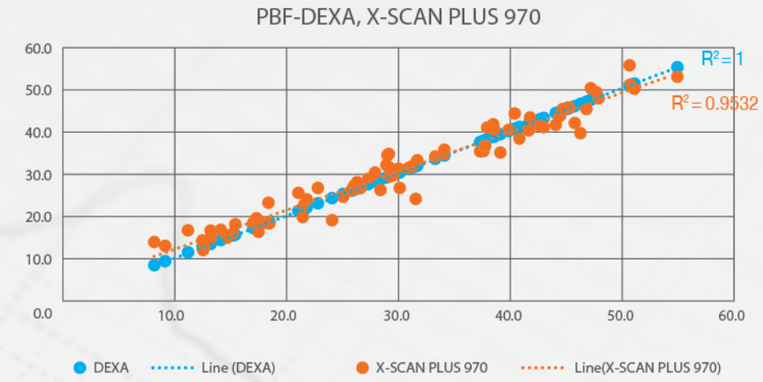
RELIABILITY

CONVENIENCE

ACCUNIQ medical devices have been used globally to measure and analyze overall health results with our healthcare and fitness professionals in mind where accuracy is of the utmost importance. They are currently used globally in **hospitals, medical facilities, doctor's offices, weight loss centers, Fitness Centers, nursing homes, public health facilities, and retail locations.**

High Consistency with DEXA

The methods of analyzing your body composition include computed tomography(CT), magnetic resonance imaging (MRI), and underwater weighing. Dual-energy X-ray absorptiometry(DEXA) is currently considered the gold standard since it accurately analyzes your fat, muscles, and bones and does not involve any radiation exposure.
ACCUNIQ conducted clinical tests with IHT, a professional clinical organization based in Texas, USA, to verify our product's precision with DEXA. The result shows that our analysis is more accurate than our competitors.



※ Determination of coefficient(R2) of DEXA is 1, and the accuracy of ACCUNIQ is higher if R2 value is close to 1.
※ The accuracy of X-SCAN PLUS 970 is proved through clinical study with DEXA at IHT center in USA, and the accuracy of other ACCUNIQ brands are guaranteed by high correlation each other.

	Paired T-test Analysis of Body Composition								
	Percent Body Fat(%)			Body Fat Mass(kg)			Lean Body Mass(kg)		
DEXA-ACCUNIQ	Mean±SD	p-value	p-value explanation	Mean±SD	p-value	p-value explanation	Mean±SD	p-value	p-value explanation
	-0.4±0.7	0.17	DEXA PBF = ACCUNIQ PBF	-0.4±0.2	0.06	DEXA PBF = ACCUNIQ PBF	0±0.3	0.99	DEXA PBF = ACCUNIQ PBF

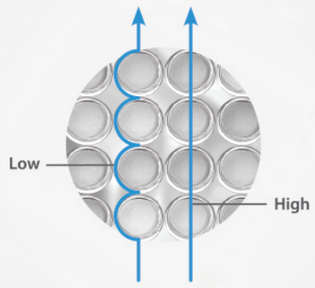
Coefficient of Determination between Our Products (X-SCAN PLUS 970 and ACCUNIQ BCA)	LBM R^2		
	BC 720	BC 510	BC 360
	0.9967	0.9949	0.9962

Eight-Point Touch Electrodes

ACCUNIQ uses the 8-point touch electrodes method, which is highly accurate despite its complexity.
Eight electrodes may be placed on the hands and feet or wrists and ankles to analyze body composition stably.

Multi-Frequency Analysis

ACCUNIQ uses 6 frequencies between 1 kHz and 1000kHz to analyze your intracellular water, extracellular water, and total body water accurately. A frequency lower than 100kHz is used to analyze extracellular water since it flows along the cell membrane, whereas a frequency above 100kHz is used to analyze total body water as it flows through the cell membrane.



ACCUNIQ BC300

The BC300 is a multi-frequency, whole body and segmental Body Composition Analyzer that utilizes innovative BIA technology to ensure accurate and precise results.

This cutting edge technology utilizes harmless, low-level frequencies to offer quick and easy total body composition assessments through the LCD touch screen, printouts and client tracking software.

- Monographic LCD Touch Screen
- 3 Available Frequencies: 5, 50, 250 KHz
- Built in Thermal printer
- User Configurable Modes - Adult, Athlete, Wrestler and Goal Setter
- Client Tracking Software Provided (ACCUNIQ MANAGER)
- USB and RS232 ports for computer or printer interface

Type A | Fabric Bag

Dimensions
approx. 815 x 215 x 410 mm

Weight approx. 1kg

Type B | Plastic Bag

Dimensions
approx. 866 x 295 x 567 mm

Weight approx. 6kg

+ Diverse Range of Options

ACCUNIQ body composition analyzers offer multiple options to meet multiple end-user requirements.

Ultrasonic Height Meter
This option accurately and quickly measures your height automatically with the distance analysis method based on the AI and ultrasonic sensor.

Product Bag
Provided in 2 types, fabric and plastic, the bag may be used to carry the product with ease. The plastic bag has straps and wheels for easy and safe transport.

Sphygmomanometer Cart
If you need a sphygmomanometer cart, please contact your local dealer.

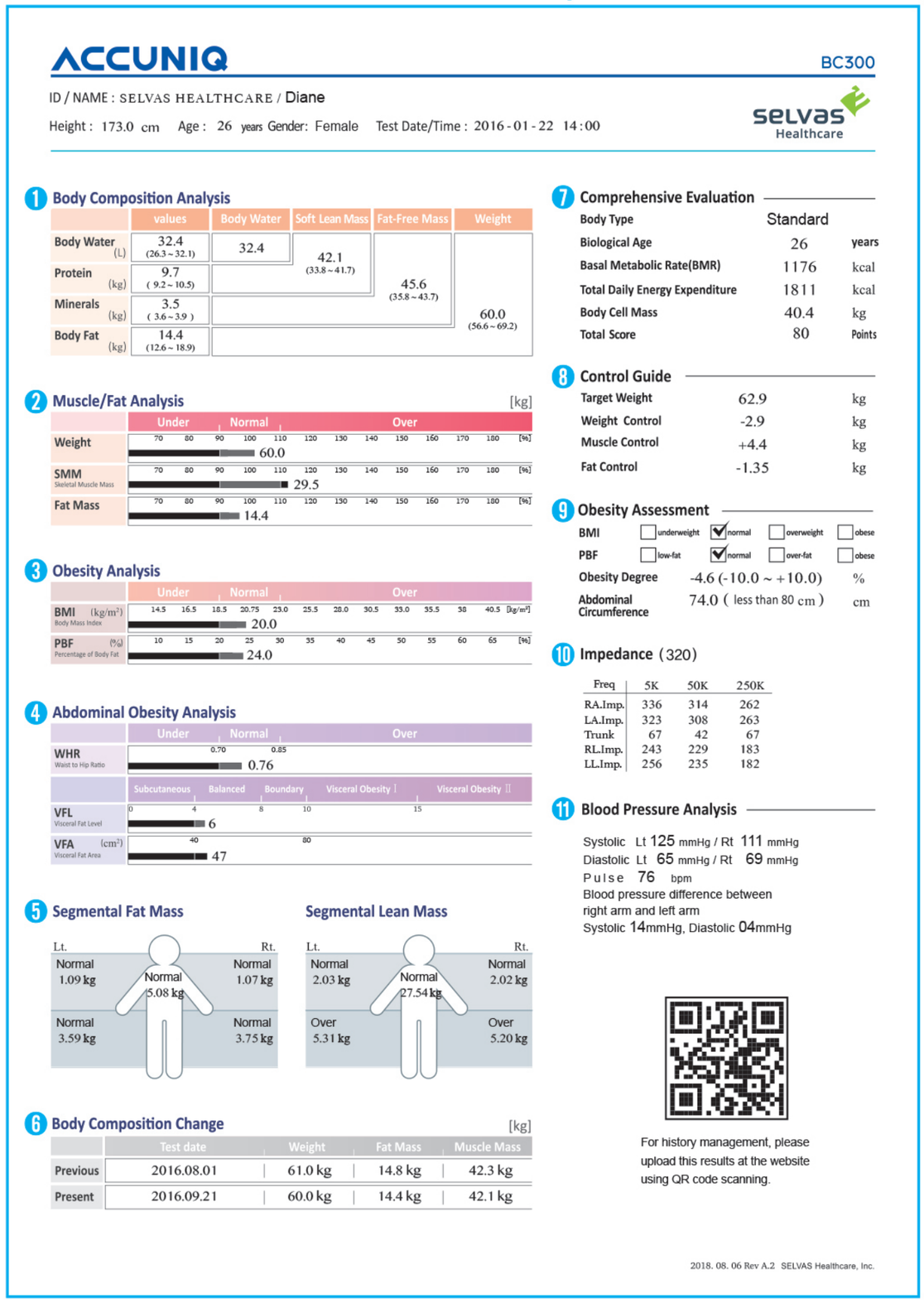
Thermal Printer
Use the thermal printer to quickly and easily print the analysis.

Fully Automatic Sphygmomanometer
Connect our fully automatic sphygmomanometer for hospitals to control your blood pressure in connection with your body fat, which can help you manage your body weight more efficiently.

A4 Result Sheet
The output results are displayed systematically and clearly.

USB Memory
Use the USB memory to save the analysis data and view it on your PC.

Various Results and Descriptions



ACCUNIQ BC300

ID / NAME : SELVAS HEALTHCARE / Diane

Height : 173.0 cm Age : 26 years Gender: Female Test Date/Time : 2016-01-22 14:00

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1 Body Composition Analysis

	values	Body Water	Soft Lean Mass	Fat-Free Mass	Weight
Body Water (L)	32.4 (26.3 ~ 32.1)	32.4	42.1 (33.8 ~ 41.7)	45.6 (35.8 ~ 43.7)	60.0 (56.6 ~ 69.2)
Protein (kg)	9.7 (9.2 ~ 10.5)				
Minerals (kg)	3.5 (3.6 ~ 3.9)				
Body Fat (kg)	14.4 (12.6 ~ 18.9)				

2 Muscle/Fat Analysis [kg]

	Under	Normal	Over
Weight	60.0		
SMM (Skeletal Muscle Mass)	29.5		
Fat Mass	14.4		

3 Obesity Analysis

	Under	Normal	Over
BMI (kg/m²) Body Mass Index	20.0		
PBF (%) Percentage of Body Fat	24.0		

4 Abdominal Obesity Analysis

	Under	Normal	Over
WHR Waist to Hip Ratio	0.76		

	Subcutaneous	Balanced	Boundary	Visceral Obesity I	Visceral Obesity II
VFL Visceral Fat Level	6				
VFA (cm²) Visceral Fat Area	47				

5 Segmental Fat Mass

Lt.	Rt.
Normal 1.09 kg	Normal 1.07 kg
Normal 5.08 kg	
Normal 3.59 kg	Normal 3.75 kg

Segmental Lean Mass

Lt.	Rt.
Normal 2.03 kg	Normal 2.02 kg
Normal 27.54 kg	
Over 5.31 kg	Over 5.20 kg

6 Body Composition Change [kg]

	Test date	Weight	Fat Mass	Muscle Mass
Previous	2016.08.01	61.0 kg	14.8 kg	42.3 kg
Present	2016.09.21	60.0 kg	14.4 kg	42.1 kg

7 Comprehensive Evaluation

Body Type	Standard	
Biological Age	26	years
Basal Metabolic Rate(BMR)	1176	kcal
Total Daily Energy Expenditure	1811	kcal
Body Cell Mass	40.4	kg
Total Score	80	Points

8 Control Guide

Target Weight	62.9	kg
Weight Control	-2.9	kg
Muscle Control	+4.4	kg
Fat Control	-1.35	kg

9 Obesity Assessment

BMI	☐ underweight	☑ normal	☐ overweight	☐ obese
PBF	☐ low-fat	☑ normal	☐ over-fat	☐ obese

Obesity Degree	-4.6 (-10.0 ~ +10.0)	%
Abdominal Circumference	74.0 (less than 80 cm)	cm

10 Impedance (320)

Freq	5K	50K	250K
RA.Imp.	336	314	262
LA.Imp.	323	308	263
Trunk	67	42	67
RL.Imp.	243	229	183
LL.Imp.	256	235	182

11 Blood Pressure Analysis

Systolic Lt 125 mmHg / Rt 111 mmHg
Diastolic Lt 65 mmHg / Rt 69 mmHg
Pulse 76 bpm
Blood pressure difference between right arm and left arm
Systolic 14mmHg, Diastolic 04mmHg

For history management, please upload this results at the website using QR code scanning.

2018. 08. 06 Rev A.2 SELVAS Healthcare, Inc.

1 Body Composition Analysis
This is a measurement of analysis results of body components (e.g., body water, proteins, minerals and body fat) relative to normal ranges.

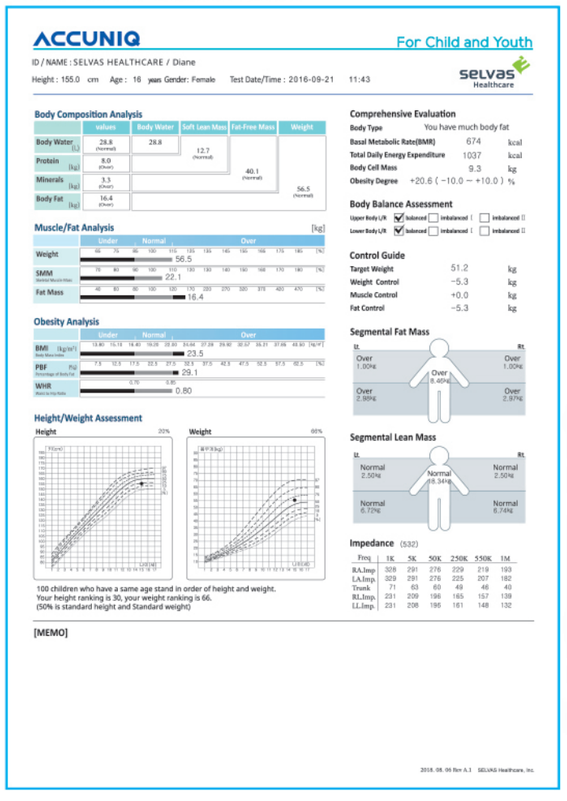
2 Muscle/Fat Analysis
This graph of the Skeletal Muscle Mass(SMM) and fat mass illustrates the proportion of skeletal muscle and body fat that comprise the total body weight.

3 Obesity Analysis
This graph of percentage of body fat(PBF) and body mass index (BMI), of which the latter is critical in assessing the prevalence of obesity, illustrates clinical data needed for obesity analysis.

4 Abdominal Obesity Analysis
Fat in the body is divided into subcutaneous fat and visceral fat. Visceral fat is closely connected with adult diseases, and measured based on several factors.

5 Segmental Fat Mass/Segmental Lean Mass
This item assesses the muscle mass of 5 body parts (left arm, right arm, left leg, right leg, and trunk)in two graphs.

▼Result Sheet for Infants (Option)



ACCUNIQ For Child and Youth

ID / NAME : SELVAS HEALTHCARE / Diane

Height : 155.0 cm Age : 16 years Gender: Female Test Date/Time : 2016-09-21 11:43

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Body Composition Analysis

	values	Body Water	Soft Lean Mass	Fat-Free Mass	Weight
Body Water (L)	28.8 (Normal)	28.8	12.7 (Normal)	40.1 (Normal)	56.5 (Normal)
Protein (kg)	8.0 (Over)				
Minerals (kg)	3.3 (Over)				
Body Fat (kg)	16.4 (Over)				

Muscle/Fat Analysis [kg]

	Under	Normal	Over
Weight	56.5		
SMM	22.1		
Fat Mass	16.4		

Obesity Analysis

	Under	Normal	Over
BMI (kg/m²)	23.5		
PBF (%)	29.1		
WHR	0.80		

Height/Weight Assessment

100 children who have a same age stand in order of height and weight.
Your height ranking is 30, your weight ranking is 66.
(50% is standard height and Standard weight)

[MEMO]

Comprehensive Evaluation

Body Type	You have much body fat	
Basal Metabolic Rate(BMR)	674	kcal
Total Daily Energy Expenditure	1037	kcal
Body Cell Mass	9.3	kg
Obesity Degree	+20.6 (-10.0 ~ +10.0)	%

Body Balance Assessment

Upper Body L/R ☑ balanced I ☐ imbalanced I ☐ imbalanced II
Lower Body L/R ☑ balanced I ☐ imbalanced I ☐ imbalanced II

Control Guide

Target Weight	51.2	kg
Weight Control	-5.3	kg
Muscle Control	+0.0	kg
Fat Control	-5.3	kg

Segmental Fat Mass

Lt.	Rt.
Over 1.00%	Over 1.00%
Over 6.40%	
Over 2.99%	Over 2.97%

Segmental Lean Mass

Lt.	Rt.
Normal 2.50%	Normal 2.50%
Normal 68.34%	
Normal 6.72%	Normal 6.74%

Impedance (532)

Freq	1K	5K	50K	250K	550K	1M
RA.Imp	328	291	276	229	219	193
LA.Imp	329	291	276	225	207	182
Trunk	71	63	60	49	46	40
RL.Imp.	231	209	196	165	157	139
LL.Imp.	231	208	195	161	148	132

2018. 08. 06 Rev A.1 SELVAS Healthcare, Inc.

6 Body Composition Change
This graph shows your weight, skeletal muscle mass, and body fat mass tracked over a period of time.
It is important that you constantly pay attention to your health care instead of attempting to control your weight over a short period of time.

7 Comprehensive Evaluation
This item shows your body type, biological age, basal metabolic rate(BMR), total daily energy expenditure (TEE), and body cell mass.

8 Control Guide
This item presents your recommended target weight, weight, and muscle and fat mass control.

9 Obesity Assessment
This item assesses your BMI, PBF and indicates your obesity degree and abdominal circumference.

10 Impedance
Impedance using frequency applied to a body part.
Impedance is a resistance value when electric current is passed through the body.
Each subject has a unique impedance.

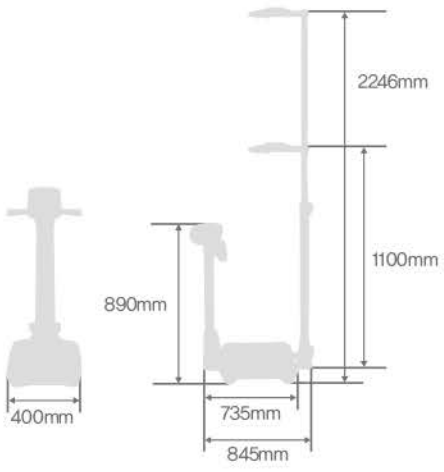
11 Blood Pressure Analysis
This item indicates your blood pressure data when the product is connected to the sphygmoma nometer provided by ACCUNIQ. This is especially useful because it assesses your obesity level and blood pressure at the same time.

ACCUNIQ BC300 Specifications

Model	ACCUNIQ BC300
Measuring Method	Tetra-polar electrode method using 8 touch electrodes
Frequency Range	5, 50, 250kHz
Measuring Site	Whole body and segmental measurement (arms, legs and trunk)
Results Sheet Data	**Body Composition Results** Body Composition Analysis (Weight, Body Water, Soft Lean Mass, Fat-Free Mass, Protein Mass, Mineral Mass, Body Fat), Muscle/Fat Analysis (Weight, Skeletal Muscle Mass, Fat Mass), Obesity Analysis (Body Mass Index, Percentage of Body Fat), Abdominal Obesity Analysis (Waist to Hip Ratio, Visceral Fat Level, Visceral Fat Area), Segmental Fat Mass (Left Arm, Right Arm, Left Leg, Right Leg, Trunk), Segmental Lean Mass (Left Arm, Right Arm, Left Leg, Right Leg, Trunk), Body Composition Change (Weight, Fat Mass, Muscle Mass), Comprehensive Evaluation (Body Type, Biological Age, Basal Metabolic Rate(BMR), Total Daily Energy Expenditure, Body Cell Mass, Total Score), Control Guide (Target Weight, Weight Control, Muscle Control, Fat Control), Obesity Assessment (Body Mass Index, Percentage of Body Fat, Obesity Degree), Abdominal Circumference, Impedance (segment & frequency), Blood Pressure Result (When Interlocked with the Hematomanometer), QR Code **Results Sheet for Infants (Option)** Body Composition Analysis (Weight, Body Water, Soft Lean Mass, Fat-Free Mass, Protein Mass, Mineral Mass, Body Fat), Muscle / Fat Analysis (Weight, Skeletal Muscle Mass, Fat Mass), Obesity Analysis (Body Mass Index, Percentage of Body Fat, Waist to Hip Ratio), Height/Weight Assessment (Height, Weight), Comprehensive Evaluation (Body Type, Basal Metabolic Rate(BMR), Total Daily Energy Expenditure, Body Cell Mass, Obesity Degree), Body Balance Assessment (Upper Body L/R, Lower Body L/R), Control Guide (Target Weight, Weight Control, Muscle Control, Fat Control), Segmental Fat Mass (Left Arm, Right Arm, Trunk, Left Leg, Right Leg), Segmental Lean Mass (Left Arm, Right Arm, Trunk, Left Leg, Right Leg), Impedance (segment & frequency)
Power Consumption	60VA
Measuring Current	Approx. within 280μA
Power Consumption	Input (AC 100~240V, 50/60Hz), Output (DC 12V, 5A adapter)
Display	7 Inch Wide Color LCD
Input Device	Keypad, PC Remote Control
Transmission Device	USB Port
Printing Device	A4 Printer, Thermal Printer (Option)
Dimension	Main Unit 400x735x890mm(WxDxH±10mm) | Main Unit+Height Meter 400x845x2246mm(WxDxH±10mm)
Weight	Approx. 10kg (main unit)
Measuring Range	100~950Ω
Measuring Time	Approx. 1 minute
Applicable Height	50~220cm
Measuring Weight	10~200kg
Applicable Age	1~99 years old
Operation Ambient	Ambient temperature range +5 to +40℃, Relative humidity range 15 to 93% (non condensing)
Storage Ambient	Ambient temperature range -25 to +70℃, Relative humidity range lower than 93% (non condensing)

Optional Equipment	Ultrasonic Height Meter, Fully Automatic Sphygmomanometer, USB Memory, Thermal Printer, Product Bag (Fabric or Plastic)
Printing Logo	Printing logo or the name of hospital, address, contact information on the pre-printed result sheet.
ID Usage	It is selected whether ID is used for subjects or not.
Scale Offset	Compensating measured value of weight scale
Clothes	Compensating the weight of clothes worn
Print Position	Adjusting print position to fit to the pre-formatted result sheet in the direction of up/down and left/right
Date / Time	Setting current date and time
Measurement Result	ACCUNIQ MANAGER

※ For purpose of improvement, specifications and design are subject to change without notice.
※ This is a medical device. Read precaution and operation method before use.



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