# **Mitutoyo**

# Solar Digital Calipers with ABSOLUTE System

## SuperCaliper

No battery or origin reset needed for IP67 digital caliper





## Top-of-the-line Digital caliper Solar ABSOLUTE System without battery achieves IP67 protection



#### Specifications | Specif

	Order No.	Range	Resolution	Accuracy*1	Mass
	500-776	150mm	0.01mm	±0.02mm	180g
With data	500-777	200mm	0.01111111	±0.02111111	210g
output	500-786	6"/150mm	.0005"/	±0.01"/	.40 lbs.
	500-787	8"/200mm	0.01mm	±0.02mm	.46 lbs.
	500-774	150mm	0.01mm	±0.02mm	180g
Without data	500-775	200mm	0.01111111	±0.02111111	210g
output	500-784	6"/150mm	.0005"/	±0.01"/	.40 lbs.
	500-785	8"/200mm	0.01mm	±0.02mm	.46 lbs.

<sup>\*1:</sup> Quantizing error ±1 count is not included.

#### **Features**

Functions	Origin setting, Error reporting	
Protection level	IP67 (IEC60529)*2	
Power supply	Solar cell*3	
Maximum response speed	Unlimited	

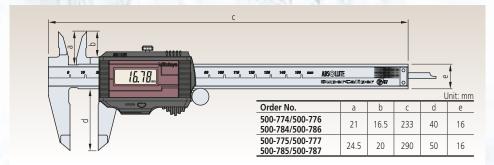
#### **Functions**

Origin setting	It is possible to change the ABS (origin) point.	
Error reporting	When illumination is insufficient, or there are display	
	irregularities due to contamination, an error message is	
	displayed and operation is suspended so that measurement	
	does not continue under the fault condition.	

#### Achieving IP67 protection level

Туре	Level	Description	
Protection from solid objects (people or things)	6: Dust-tight	Protection against ingress of dust and full protection against contact	
Protection from liquids (water, etc.)	7: Protected against the effects of temporary immersion in water.	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed to a depth of 1 m in water under standardized conditions of pressure and time.	

#### **Dimensions**



#### **Optional accessories**

#### Water-resistant connection cable\*5

1m cable: **No.05CZA624** 2m cable: **No.05CZA625** 





5 This connection cable is dedicated to the SuperCaliper.

#### DP-1VR **Digimatic Mini-processor**

No.264-504

(Data processing device for quality control applications)

### **MUX -10F Multiplexer**

No.264-002

(Measurement data transmission device)

#### **USB Input Tool IT-016U**

(Measurement data input device with USB keyboard signals)

No.264-016





<sup>\*2:</sup> Anti-corrosion treatment is required after use \*3: Can be used continuously above 60 lux ambient illumination.

#### About the charge function (SuperCaliper)

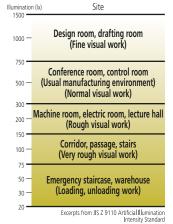
### The minimum illumination required in the uncharged state is 60 lux.

As shown in the table 'JIS Z 9110 Artificial Illumination Intensity Standard', this SuperCaliper can be used without problems in a normal work environment.

#### The charge function allows the operator to use this SuperCaliper without interrupting work even if the ambient illumination is temporarily insufficient.

- In the fully charged state this SuperCaliper can operate for approximately an hour in an environment of 50-lux illumination (less than the minimum necessary illumination intensity).
- The time necessary for full charge differs, depending on the charging conditions. If this SuperCaliper is left unused in an illumination of 500 lux (usual for manufacturing environments), it takes approximately one hour to reach full charge.

PAT. JP3436510, US6329813 P. CN1272620A, EP1014041A1



## Fluids against which this caliper is protected (for reference)

\* It has been proven that this SuperCaliper operated satisfactorily during IP67-level testing using the following fluid products supplied by major manufacturers.

Water-insoluble cutting fluids

- Chlorine active sulfur
- Chlorine inert sulfur
- Active sulfur
- Inert sulfur

Water-soluble cutting fluids

- Emulsion
- SolubleSolution

Electrical discharge fluids

Brake fluid

Cleaning fluid

Water-soluble cleaning fluid

Rust-preventive oil



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## Mitutoyo

#### Mitutoyo Asia Pacific Pte. Ltd.

Company Reg No. 197800892N

24 Kallang Avenue, Mitutoyo Building, Singapore 339415

Tel: (65) 6294 2211 Fax: (65) 6299 6666 E-mail: mapsg@mitutoyo.com.sg

#### Mitutoyo (Malaysia) Sdn. Bhd.

Mah Sing Integrated Industrial Park, 4, Jalan Utarid U5/14, Section U5, 40150 Shah Alam, Selangor, Malaysia Tel: (60) 3-7845 9318 Fax: (60) 3-7845 9346

E-mail: mmsb@mitutoyo.com.my

Penang Branch

Tel: (60) 4-641 1998 Fax: (60) 4-641 2998 E-mail: mmsbpen@mitutoyo.com.my **Johor Branch** 

Tel: (60) 7-352 1626 Fax: (60) 7-352 1628 E-mail: mmsbjhr@mitutoyo.com.my

#### Mitutoyo (Thailand) Co., Ltd.

76/3-5, Chaengwattana Road, Kwaeng Anusaowaree, Khet Bangkaen, Bangkok 10220, Thailand Tel: (66) 2-080 3500 Fax: (66) 2-521 6136 E-mail: office@mitutoyo.co.th Chonburi Branch Tel: (66) 2-080 3563 Fax: (66) 3-834 5788

Tel: (66) 2-080 3565 Fax: (66) 3-846 8978

Amata Nakorn Branch

#### PT. Mitutoyo Indonesia Jalan Sriwijaya No.26

Jalan Sriwijaya No.26 Desa cibatu Kec. Cikarang Selatan Kab. Bekasi 17530, Indonesia Tel: (62) 21-2962 8600 Fax: (62) 21-2962 8604 E-mail: ptmi@mitutoyo.co.id

#### Mitutoyo Vietnam Co., Ltd.

No. 07-TT4, My Dinh - Me Tri Urban Zone, My Dinh 1 Ward, Nam Tu Liem District, Hanoi, Vietnam Tel: (84) 4-3768 8963 Fax: (84) 4-3768 8960 E-mail: mvc-hn@mitutoyo.com.vn

Ho Chi Minh City Branch Tel: (84) 8-3840 3489 Fax: (84) 8-3840 3498

E-mail: mvc-hcmc@mitutoyo.com.vn

#### Mitutoyo Philippines, Inc.

Unit 2103, GMV Building 2, 107 North Main Avenue, Laguna Technopark, Biñan, Laguna 4024, Philippines Fel: (63) 49-544 0272 Fax: (63) 49-544 0272 E-mail: mpi@mitutoyo.com.ph

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