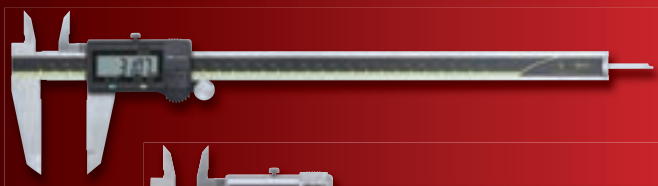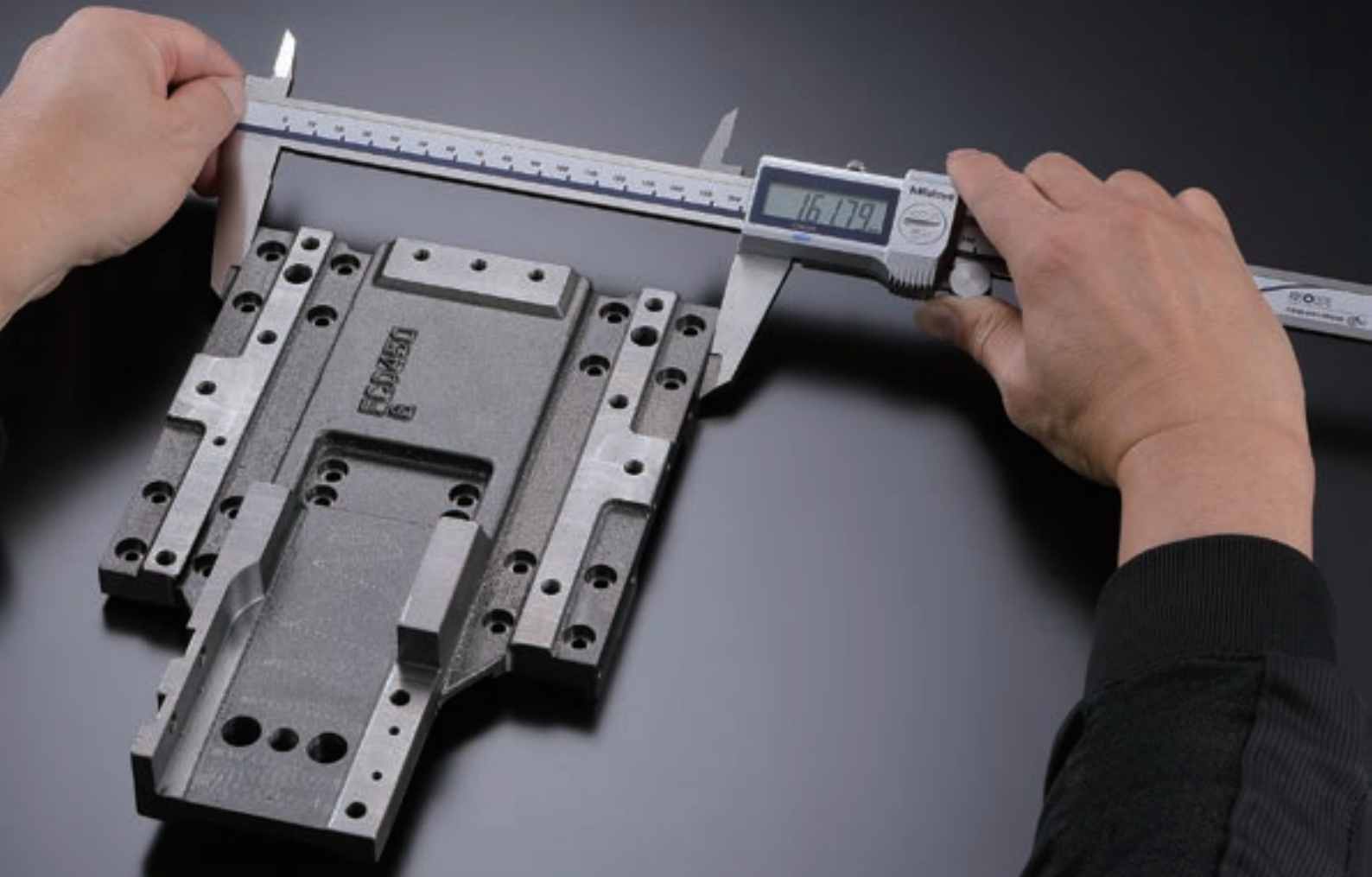# Mitutoyo

Mitutoyo Quality

ABSOLUTE Digimatic Calipers
Standard & Coolant Proof

300 mm measuring range, now with highly visible LCD!

Small Tool Instruments and Data Management

COOLANT **PROOF**™ IP67

NEW Products

Mitutoyo

Digital caliper equipped with absolute scale
ABS Digimatic Caliper

Measuring range: 300 mm

500-153-30

500-714-20 IP67

TÜVRheinland®
CERTIFIED
www.tuv.com
ID 0000045042

Features

Easy-to-see large numbers!

The character height on the LCD is increased to **11.0 mm** to enhance visibility (**Standard** model: Increased by approx. **16%**, **IP67** model: Increased by approx. **8%**, in-house comparison).

No zero-adjustment necessary!

Thanks to the ABS (absolute) scale, troublesome zero adjustment is eliminated.

20 mm beam width aids stability!

Thanks to the **20 mm** beam width, the straightness of the scale is excellent and so accuracy is maintained over the whole measuring range.

Environment-friendly battery life!

The battery life is extended from 3.5 years to **5 years** for the **Standard** model and from 1 year to **5 years** for the **IP67** model (in-house comparison). Reducing battery replacements helps to protect our environment.

Highly resistant to water, oil, and stains! *1

These calipers conform to the **IP67** ingress protection level and can be used in the same harsh environments as purely mechanical calipers.

COOLANT PROOF™ IP67
COOLANT PROOF *2 is the universal term for Mitutoyo Digimatic Small Tool Instruments that are not only resistant to dust and water ingress but also to deterioration of materials due to contact with the cutting oil or coolant fluids in normal use.

Simple battery replacement! *1

There is no screw on the battery lid. Quick battery replacement and airtightness are achieved with a click-lock lid.

New appearance!

These newly designed products continue the user-friendliness of the previous models with 200 mm or less measuring range.

*1: This feature is only available on the **IP67** model, an IP67 ABS coolant proof caliper.
*2: Some types of aggressive cutting oil or coolant may degrade the sealing materials over time.

Mitutoyo

with Dust/Water Protection Conforming to IP67 Level
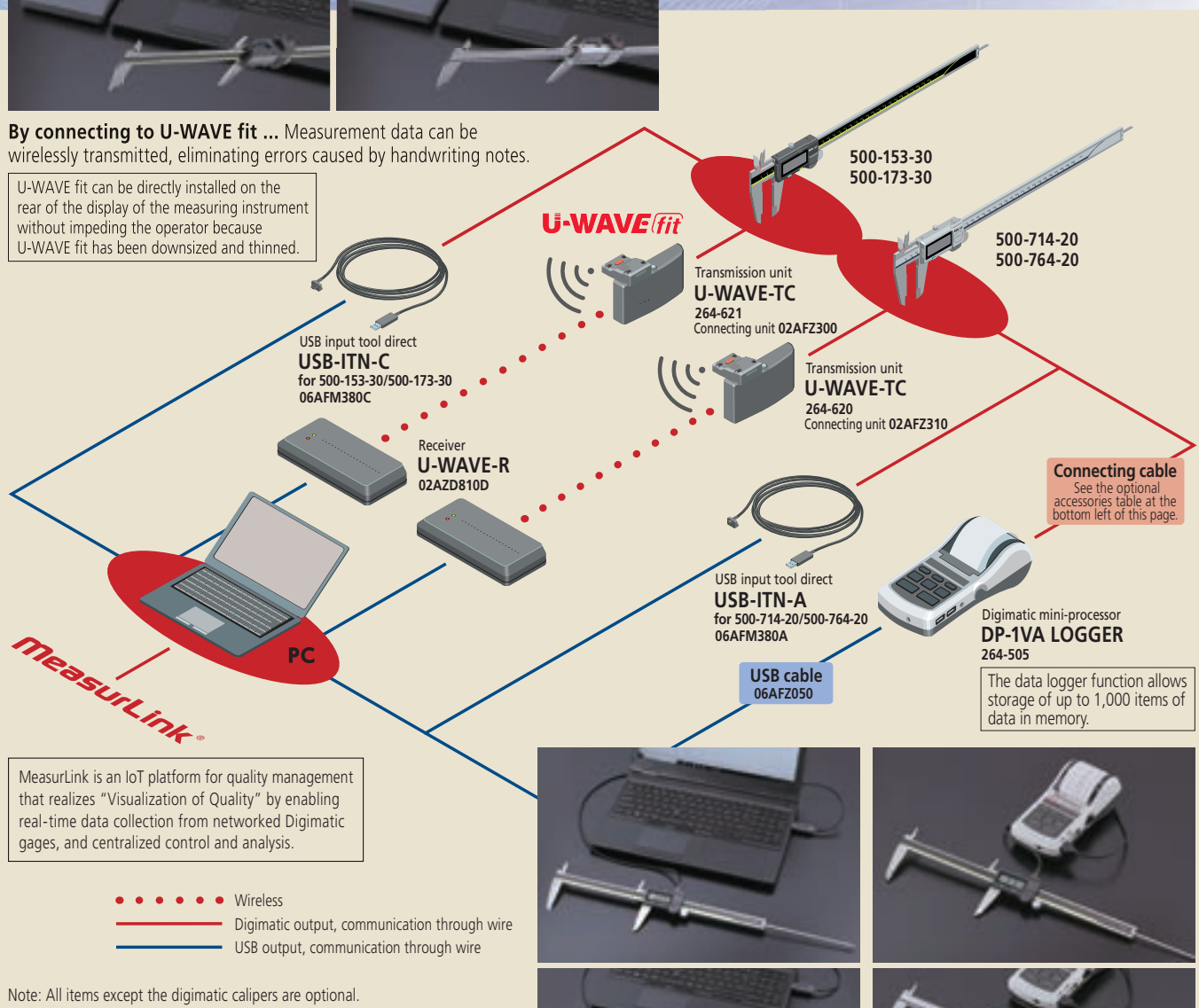# IP67 ABS Digimatic Coolant Proof Caliper

Measuring range: 300 mm

Centralized data management

By connecting to U-WAVE fit ... Measurement data can be wirelessly transmitted, eliminating errors caused by handwriting notes.

U-WAVE fit can be directly installed on the rear of the display of the measuring instrument without impeding the operator because U-WAVE fit has been downsized and thinned.

U-WAVE fit

500-153-30
500-173-30

500-714-20
500-764-20

Transmission unit
U-WAVE-TC
264-621
Connecting unit **02AFZ300**

Transmission unit
U-WAVE-TC
264-620
Connecting unit **02AFZ310**

USB input tool direct
USB-ITN-C
for 500-153-30/500-173-30
06AFM380C

Receiver
U-WAVE-R
02AZD810D

Connecting cable
See the optional accessories table at the bottom left of this page.

USB input tool direct
USB-ITN-A
for 500-714-20/500-764-20
06AFM380A

Digimatic mini-processor
DP-1VA LOGGER
264-505

The data logger function allows storage of up to 1,000 items of data in memory.

USB cable
06AFZ050

MeasurLink®

PC

MeasurLink is an IoT platform for quality management that realizes "Visualization of Quality" by enabling real-time data collection from networked Digimatic gages, and centralized control and analysis.

• • • • • • Wireless
——————— Digimatic output, communication through wire
——————— USB output, communication through wire

Note: All items except the digimatic calipers are optional.

Optional accessories

	Product	Order No.
For 500-153-30 500-173-30	Connecting cable	**959149** (1 m)
		959150 (2 m)
	Hold unit	**959143**
For 500-714-20 500-764-20	Connecting cable	**05CZA624** (1 m)
		05CZA625 (2 m)

By connecting to Input Tool Direct ...
Measurement data can be input to Microsoft Excel, Microsoft Notepad and similar software.
Note: Microsoft Excel is a registered trademark of Microsoft Corporation.

By connecting to DP-1VA LOGGER ...
Measurement data can be printed, and measurement data and log data can be transmitted in a batch to a PC with a one-touch operation.

Specifications

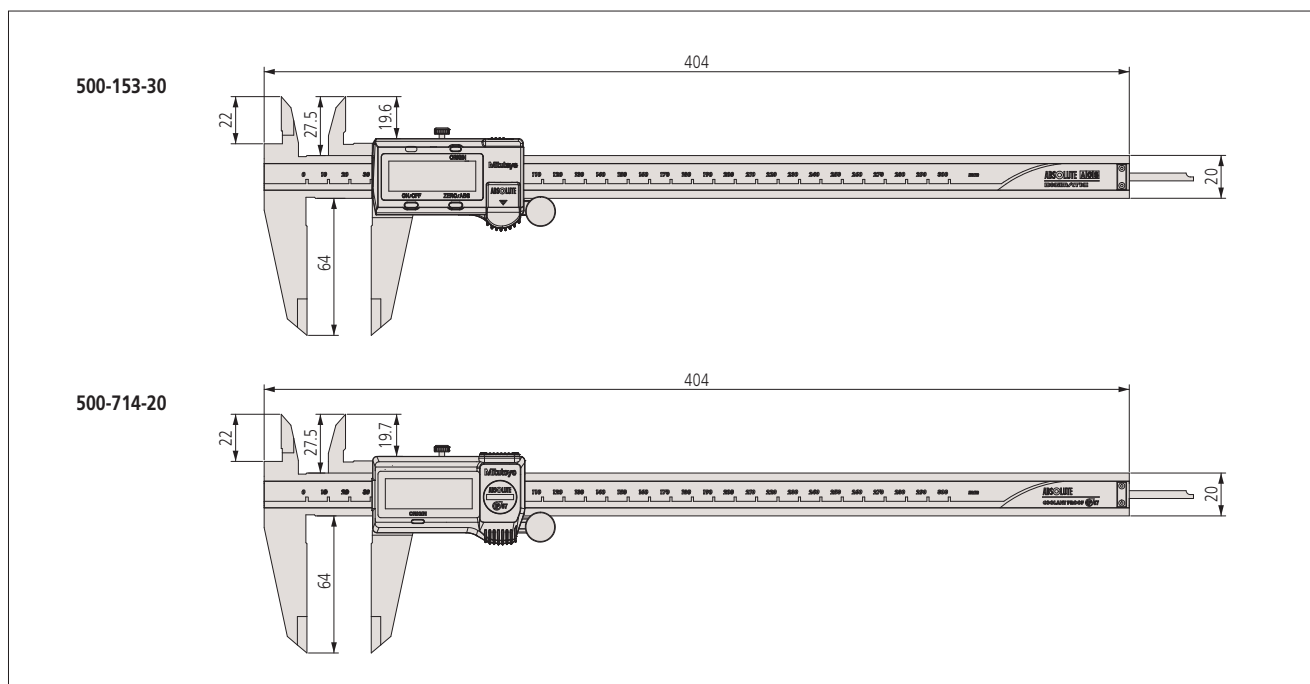|	Metric		Inch/Metric	
Order No.	**500-153-30**	**500-714-20**	**500-173-30**	**500-764-20**
Measuring range	0 - 300 mm		0 - 12 in / 0 - 300 mm	
Resolution	0.01 mm		0.0005 in / 0.01 mm	
Accuracy*1	±0.03 mm		±0.0015 in / ±0.03 mm	
Repeatability	0.01 mm		0.0005 in / 0.01 mm	
Mass	350 g		350 g	
Fine adjustment	Thumb roller			
Data output	Digimatic code format			
IP code level	—	IP67	—	IP67
Power suppply	Silver oxide battery SR44 (1 pc.)			
Battery life	Approx. 5 years under normal use			
Scale type	Electromagnetic induction-type ABSOLUTE linear encoder			
Max. response speed	Unlimited			
LCD display	7-segment/6-digit, minus [−] sign, character height: 11.0 mm			
Function	Power on/off, origin-set, ZERO/ABS, data output*2, data hold*3	Origin-set, automatic power on/off*4, data output*2	Power on/off, origin-set, ZERO/ABS, data output*2, data hold*3	Origin-set, automatic power on/off*4, data output*2
Alarm	Low battery voltage, Scale surface contamination, Overflow			
Operating temperature	0 to 40 ˚C			
Storage temperature	-10 to 60 ˚C			

*1: Excluding quantizing error
*2: By using the optional connecting cable with data switch, measurement data can be output
*3: By using the optional data hold unit, the displayed value can be held.
*4: Display will turn off after 20 minutes inactivity. Power is restored when the slider is moved.

Dimensions

Unit: mm

500-153-30

500-714-20

**Find additional product literature
and our product catalogue**

http://www.mitutoyo.co.jp/global.html

Mitutoyo

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