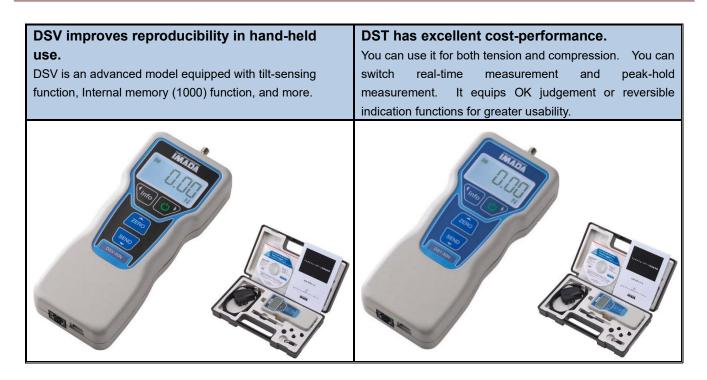




# **Digital force gauge DSV/DST series**

- Ideal for hand-held use due to the hand fitting design and the lightweight
- Easy data management and OK judgement
- In capacity up to 1000N, handling a wide range of force testing



# Newly added functions to improve work efficiency

DSV sounds alarms when you tilt it to right/left	You can connect maximum 4 pcs of DSV/DST to		
or up/down from the preset position, for	PC at the same time, for easier management.		
greater accuracy.			
Beep sound			
- DSV has tilt-sensing function, sounding alarms when it	- You can record acquired data, date, OK judgement.		
senses a tilt from the pre-set position.	* You need a dedicated optional software for this.		
- When it sounds an alarm, "NG" is recorded.	'		
* DST does NOT have the tilt-sensing function.			
You can prevent DSV/DST from sensor-	DSV/DST has longer battery life and great		
breakdown due to mechanical stopper.	portability.		
- DSV/DST-2N/5N/20N/50N has mechanical stopper for	- Battery life lasts 30 hours at maximum when its backlight		
overload preventing.	is off.		
* You cannot prevent overload in some cases.	- You can charge it from a PC or a mobile battery.		





instruments [Main functions]

#### **Indicate force digitally** Digital indication offers NO individual differences in reading.

#### **O**Reversible indication

The indication can be turned upside down as desired with simple button operation.



**OK judgement** You can set upper/lower limit, then, it indicates OK.

#### Oisplay

Time, battery life, and other information can be indicated as desired. It can indicate the last values, or peak & real time values at the same time.



#### **OCalibration schedule reminder**

You can set up the desired date for next calibration, then on 30 days before the set date, it reminds you of the next calibration by a message on its monitor.

### [Other functions]

<u> </u>	
DSV & DST	DSV only
Sensitivity	Tilt-sensing alarm
Sign inversion	Continuity peak mode
Setting lock	Internal memory (1000 points)
Off timer (auto power-off)	
Overload alarm	

### [6 supplied attachments]

DSV and DST come with the 6 attachments below. You can perform simple compression / tension test using the attachments

attaonmonto.					
Small hook	Flat tip	Conical tip	Chisel tip	Notched tip	Extension shaft
A-1(S-1 *1)	A-2(S-2)	A-3(S-3)	A-4(S-4)	A-5(S-5)	A-6(S-6)
2					

DSV(DST)-2N/5N/20N/50N come with aluminum attachments(A-type). DSV(DST)-200N/500N/1000N come with steel made







### [DS specifications]

Model	DSV	DST		
Accuracy	±0.2%F.S.(full scale)±1digit			
Unit	N(mN, kN), kgf(gf), lbf (*1)			
Display	4-digi	it LCD		
Sampling rate	Max. 100	0 data/sec		
Battery	Approx.30 hours (when back light is off) Approx.14 hours (when back light is on) (need 4.5 hours for full charge)			
Overload	Approx.200%F.S.			
Power	Nickel-Metal Hydride battery (NiMH battery), USB charge(PC, mobile battery, AC adapter)			
Operating environment	Temperature : 0 - 40°C, Humidity : 20 -80%RH			
Functions	Reversible display /Sign inversion/Setting I	arator(OK Judgement)/Sensitivity(3 steps)/ ock/Date & Time/Off timer (Auto power-off)/ schedule/Overload alarm		
Output	USB/RS232C			
Overload alarm	Alarm to notify "near-overload state": Approx. 90%F.S. (Alarm sound) Alarm to notify "overloaded state" : Approx.110%F.S. (Alarm sound / Indication blinking)			
Weight	Aprrox.460g (*3)			
Dimensions	Refer to Dimensions on page 5.			
Accessories	CD driver (including data logging software)/USB cable/AC adaptor/ Attachments (The types of attachments vary by models)/Carrying case/ Instruction manual/Inspection certificate			

\*1 These are the specifications for International model. Note that the available units are different from Japanese domestic model and international one. kN is available at 1000N, mN and gf is available at 2N and 5N ranges.

\*2 You cannot use Continuous peak mode when the measurement does not reach 10% of the force gauge's capacity. Instead, use Peak mode. Continuous peak mode could not fit enough for measurement with a shock such as break tests. Contact us for further details.
\*3 The weights are slightly different by the model.

# [DS models]

Model	Capacity	Display	Resolution	Thread	Supplied attachments
DSV(DST)-2N	2N	2.000N	0.001N		
DSV(DST)-5N	5N	5.000N	0.001N	M6	A1~A6
DSV(DST)-20N	20N	20.00N	0.01N		AT~A0
DSV(DST)-50N	50N	50.00N	0.01N		
DSV(DST)-200N	200N	200.0N	0.1N		
DSV(DST)-500N	500N	500.0N	0.1N		S1(SR1*)~S6
DSV(DST)-1000N	1000N	1000N	1N		

%DSV(DST)-1000N come with SR-1, DSV(DST)-200N/500N come with S-1.

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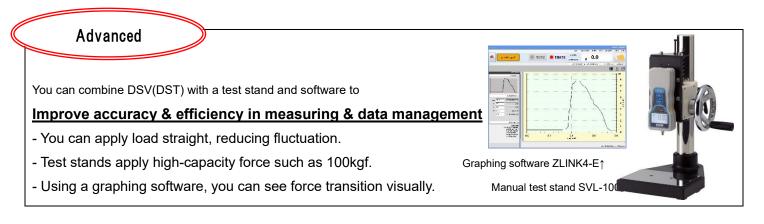




### [Supplied Software : Force Logger]

Using a supplied USB cable, you can easily transfer data form DSV(DST) to PC.

	Features		
	- Data transfer to PC at 10Hz with ease.		
a final some	- Displaying various measuring data such as Maximum, Minimum, and		
The Deex Trippy/Sound 25% Point Deeps Markers Information 2773-2680 (20000) Thirs: No. Areas Mari andre Tripy Deeps	Average values		
0.00 x 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Data recording in CSV format.		
C         D.2         K         C.         C. <thc.< th="">         C.         C.         C.<th>- Setup function of the force gauge's setting.</th></thc.<>	- Setup function of the force gauge's setting.		
Control No.         Step         II         -13         k         40         CA101         C20001           Control No.         III         -13         k         40         EA20         E20001           Control No.         IIII         -14         k         40         EA20         E20001           Control No.         IIIII         -14         k         40         EA20         E20001           Control No.         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Operating environment		
H         H         H         K         K         K         SERVET           H         H         K         K         K         SERVET         SERVET           OK         173         K         cr         RER         SERVET         SERVET           10         K         cr         RER         SERVET         SERVET         SERVET	- OS: 7/8/8.1/10 (32/64bit version is available)		
0         10         1         0         1000         10000           21         5         6         6         6         1000         10000           21         5         6         6         6         6         1000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         100000         10000         100000	- Hardware: CPU Pentium4(1GHz or more), Memory 2GB, Hard disk : 10GB or more recommended		
Generati	- Platform: .NET Framework4.6 or later		
	- Execute environment: Internet Explorer 6.0, Windows Installer 3.1 or later - Connection port: USB1.1, USB2.0 connector		



instruments

**NEURTEK** 

### [Related Products]



Graphing software : ZLINK4					
<ul> <li>Main features of ZLINK4</li> <li>You can draw a graph of force-time at 50Hz.</li> <li>You can determine time period for recording in trigger (auto start) function.</li> <li>You can save data in CSV format.</li> <li>You can connect DSV/DST to PC using the supplied USB cable.</li> <li>* See the specification of ZLINK4 for further information.</li> </ul>					
Soft	tware to manage 4 pcs	of gauges : Force L	ogger Plus		
<ul> <li>Main features of Force Logger Plus</li> <li>You can connect Max. 4 pcs of force gauges and receive data from them.</li> <li>Using the supplied USB hub, you can easily connect 4 pcs of force gauges.</li> <li>Each data individually shows test date &amp; time, one in charge, by a seria No. of a force gauge.</li> <li>You can save data in CSV format.</li> </ul>				4 pcs of force	
Digital force gauges ZTS/ZTA series         Main features of ZTS/ZTA         1. ZTS/ZTA improves the reproducibility of measurement due to it sampling rate (2000Hz).         2.Clear organic display, 8 language availability, and more useful fun         3.You can visually see small changes in force using an optional grasoftware.         4.You can combine ZTS/ZTA with a motorized test stand or equipment due to its output functions.         5.ZTA can input/output displacement.         * See the specifications of ZTS/ZTA for further information.			re useful functions n optional graphing		
Handle : FOH-1	RS232C cal	RS232C cable (9P) : CB-203 Replacement battery : B		oattery : BP-403	
Combin force ga with this handle screws, can app force st	auge s by you bly	The cable connects a PC to a force gauge, enabling to transmit command signals.	·	You can open the battery cover of DSV/DST, and replace it very easily.	

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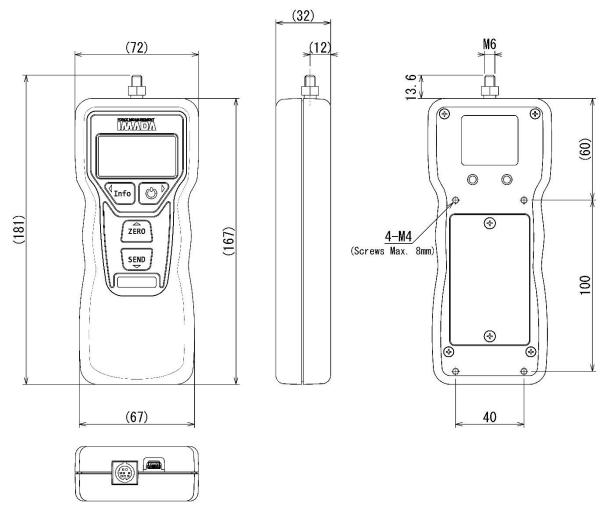
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# [Dimensions]



Unit: mm

### [Calibration certificate & ISO 17025 calibration services]

As an option, we offer calibration certificates and traceability charts with extra charges. Moreover, we can offer calibration services according to ISO/IEC17025: 2005. Contact us for details.

### [Cautions]

- The contents may be changed without previous notice.
- All of products are designed for measurement purpose only.
- Do not copy and use this content without authority.
- Please note if you add load over capacity, or add force from side or torsion, its sensor would be broken down.

# IMADA CO., LTD

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Visit our website for more information on wide product specifications, measurement applications and videos.

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