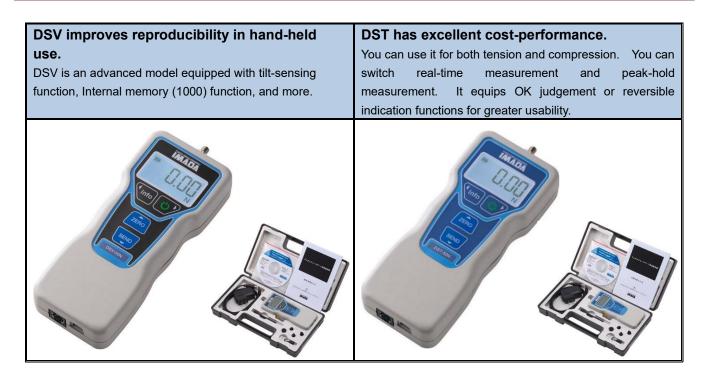


# **Digital force gauge DSV/DST series**

- 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

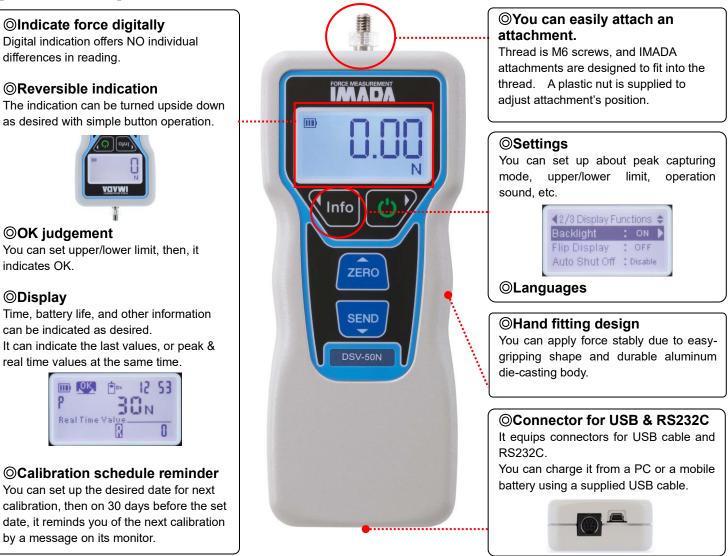


## Newly added functions to improve work efficiency

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.	DOV/DOT has lawned better life and weet		
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.		



### [Main functions]



[Other functions]	
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

attaonnonton					
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-digit 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 l	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 Dimens	sions 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		A1~A6
DSV(DST)-20N	20N	20.00N	0.01N		A1~A0
DSV(DST)-50N	50N	50.00N	0.01N	M6	
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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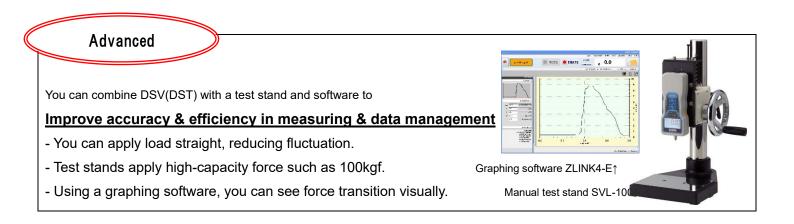




## [Supplied Software : Force Logger]

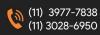
Using a supplied USB cable, you can easily transfer data form DSV(DST) to PC.

	<ul> <li>Features <ul> <li>Data transfer to PC at 10Hz with ease.</li> <li>Displaying various measuring data such as Maximum, Minimum, and Average values</li> <li>Data recording in CSV format.</li> <li>Setup function of the force gauge's setting.</li> </ul> </li> <li>Operating environment <ul> <li>OS: 7/8/8.1/10 (32/64bit version is available)</li> <li>Hardware: CPU Pentium4(1GHz or more), Memory 2GB, Hard disk : 10GB or more recommended</li> <li>Platform: .NET Framework4.6 or later</li> <li>Execute environment: Internet Explorer 6.0, Windows Installer 3.1 or later</li> <li>Connection port: USB1.1, USB2.0 connector</li> </ul> </li> </ul>
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#### [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>					
	Software to	manage 4 pcs of	f 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 serial No. of a force gauge.</li> <li>You can save data in CSV format.</li> </ul>				t pcs of force	
		* Please ask us for	the detail of the softwa	are.	
	I	Digital force gaug	es ZTS/ZTA series	S	
<ul> <li>Main features of ZTS/ZTA</li> <li>1. ZTS/ZTA improves the reproducibility of measurement due to sampling rate (2000Hz).</li> <li>2. Clear organic display, 8 language availability, and more useful fur 3. You can visually see small changes in force using an optional g software.</li> <li>4. You can combine ZTS/ZTA with a motorized test stand or equipment due to its output functions.</li> <li>5. ZTA can input/output displacement.</li> <li>* See the specifications of ZTS/ZTA for further information.</li> </ul>			re useful functions n optional graphing		
Handle : FOH-1		RS232C cable (9P) : CB-203 Replacement battery : Bl		attery : BP-403	
	Combining a force gauge with this handle by screws, you can apply force stably.		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.

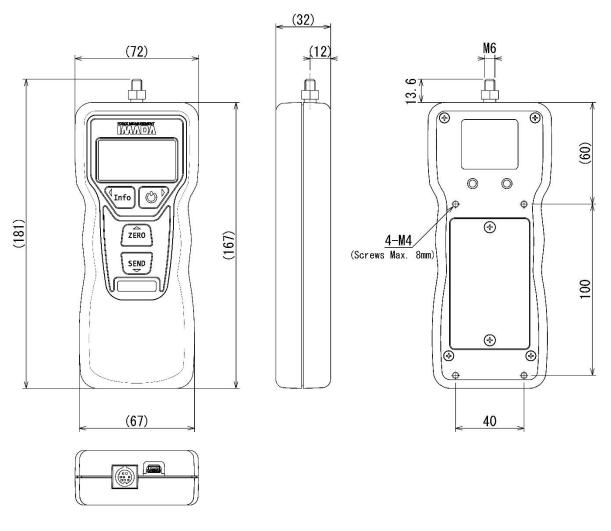








## [Dimensions]



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.







