



DESCRIPTION	FEATURES		SPECIFICATIONS	SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCES	SORIES
The RU-846 Rugged Data Recorder, made	The Data Recorder adopts modular design and	Strain Acquisition Modulo			DE-BPS Basic Platform Software	RU-846-S Strain Acquisition Module	
of aluminum alloy with mini size, lighter	consists of a control layer, an acquisition layer and	Strain Acquisition would			Running on XP/Win7/Win8/Win10 operating system	4 input channels	
weight and strong impact resistance, specially designed for vehicles, airborne.	a power layer Micro testing system, 16 channels, size: 55mm×	Number of Input Channels	4 channels	Shain Gage	Parameters setting, Function control, Real-time/post-acquisition analysis data browsing, cursor readouts, scaling curve, data management and	s, Software-selectable full-scale voltage value from ±0.125V to ±2.5V	
shipboard and other occasions with narrow	62mm×82mm, weight: 350g	Input Mode	Differential balance input		simple processing, report generation, long-term continuous data recording,	Software-selectable full-scale strain value from	
installation space. RU-846 adopts modular combination design. Extended via USB	 Up to 500g impact resistance and -20°C~+60°C operation temperature 	Input Impedance	10MΩ+10MΩ	Bridge Sensor		±2500με to ±50000με Software-selectable full bridge, 1/2 bridge or	
hub, RU-846 can be used for parallel and	Up to 4 modules (16 channels) are supported by	Full-scale Voltage Value	±0.125V, ±0.25V, ±0.5V, ±1.25V, ±2.5V	倉	- 495 742 - 495 742 - 495 742 - 935546 -	1/4 bridge (3-wire) mode	and the second se
synchronous test and analysis of 96 channels dynamic signals by a single	a single system, including the module of IEPE, charge, strain, or custom combination	Full-scale Strain Value	$\pm 2500 \mu\epsilon, \pm 5000 \mu\epsilon, \pm 12500 \mu\epsilon, \pm 25000 \mu\epsilon, \pm 50000 \mu\epsilon$	PE Accelerometer		Independent 16-bit A/D converter and dedicated DSP real-time signal processing system	
computer, and widely used for	USB communication, built-in 32GB high-speed	Indication Error	≤0.5% of F.S.			per channel	
structures in aerospace, weapons,	Up to 6 systems, each with 16 channels, can rur	Nonlinearity	≤0.1% of F.S.	Pli Taxala Accelerometer		16 channels input simultaneously, the sampling rate up to 128kHz/channel	
automotive engineering, sports safety	synchronously	Minimum Resolution	<1με	RU-846		RU-846 IEPE Acquisition Module	
equipment and other industries.	Support online and offline working modes,	CMR	≥100dB			4 input channels Built-in 24V/4mA bias current	
	online or offline continuous or triggered acquisition,	Bridge Voltage	2V	Magnetoelectric Velocity Sensor		Software-selectable full-scale voltage value	
	Software settable bridge modes such as full-	Bridge Configuration	Full bridge, Half bridge, Three-wire Quarter bridge (Default 1200)			Independent 16-bit A/D converter per channel	000~
	bridge, half-bridge, and three-wire quarter bridge,	Auto-balancing Range	+20mV			16 channels input simultaneously, the sampling	
	Support intelligent wire identification and TEDS	Freq Response	DC = 20kHz (+0.5dB = -3dB)	EPE Accelerometer		Built-in low-pass filter and anti-aliasing filter	
	sensors	A/D Converter	40 kin			RU-846 Charge Acquisition Module	
	supply (optional) or external 10~36V DC power	Anti cliccing Eilter	16 bits			4 input channels	
	supply	Anti-allasing Fliter				Software-selectable full-scale charge value from ±50pC to ±5000pC with the sensitivity of	
	which runs on Windows XP/7/8/8.1/10 OS, has	Cut-off Frequency	1/2.56 of sampling rate			1mV/pC and from ±500pC to ±50000pC with the	10.0.0.0
	word document activity reporting function and	Stop-band Attenuation	- 100dB/Oct.			Independent 16-bit A/D converter per channel	
	recorder, color waterfall chart, color cloud chart,	Flatness	±0.05dB (Within analysis frequency range)			16 channels input simultaneously, the sampling	
1	instrument panel, bar chart, digital table, audio and	Dimensions	55mm(L)×61mm(W)×10mm(H) (Inclu. protruding connectors)	PE Acceleraneter		Built-in low-pass filter and anti-aliasing filter	
	Video, 3D model chait, etc.	Power Consumption	2W				
		Voltage/IEPE Acquisition	Module	Pil Transa Academicrater		RU-846 Acquisition Control Module	the main harden and of the
		Number of Input Channel	4 channels	RU946	•	Built-in 32gb high-speed memory	
		Input Mode	IEPE, AC	Magnetonictic Velocity Gener		Up to 128kHz/channel	o o o o o
		IEPE Power	4mA/24V			RU-846 Li-battery Module	= 1
		Full-scale Voltage Value	±0.05V, ±0.5V, ±5.0V	IDIG Accelerometer Stymonronicus cacick controllier		Intelligent rechargeable lithium battery Optional battery capacity of 2000mAb	= '
		Indication Error	≤0.5% of F.S.			4000mAh, 6000mAh	RUAM
		Freq. Response	1Hz ~ 20kHz (+0.5dB ~ -3dB)			RU-846 Synchronization Controller (Optional)	Contraction of the local division of the loc
		A/D Converter	16 bits	-		lithium battery pack	5 m
		Cut-off Frequency	2017 20017 2017 2455	Strain Gage		USB 3.0 switch Ontional of 3+1 6+1 and 9+1 ports	Printer P
		Stop-band Attenuation	>-18dB/Oct.			Wire Controller (Optional)	
		Flatness	<0.1dB (Within 1/2 cut-off frequency)			Used to control the recorder for standalone	
		Anti-aliasing filter		Bridge Sensor		Control power switch	
		Cut-off Frequency:	1/2.56 of sampling rate			Control balance and acquisition	
		Stop-band Attenuation:	-100dB/Oct.	PE Accelerometer		C-4 Signal Input Cable Five core shielded cable	
		Dimensions	±0.05dB (Within analysis frequency range) 55mm/L)x62mm/W)x10mm/H) (Inclui protructing connectors)			Default 1m bare cable	
		Weight	Approx. 41g				
		Power Consumption	1.75W	PE Triaxial Accelerometer Sync Cable			
		Charge Acquisition Modul	le	Sync clock controller			
		Number of Input Channel	4 channels				
		Input Charge Range		Magnetoelectric Velocity Sensor			
		Full-scale Value	+E00C +E000C +E0000C				
		(Charge Sensitivity: 1mV/nC) Full-scale Value					
		(Charne Sensitivity: 0 1mV/nC)	±500 pC, ±5000 pC, ±50000pC	IEPE Accelerometer			
		Indication Error	≤0.5% of F.S.				
		A/D Converter	16 bits				
		Freq. Response	0.5Hz ~ 20kHz (+0.5dB ~ -3dB)				
		LPF					
		Cut-off Frequency	30Hz, 300Hz, 3kHz, PASS				
		Stop-band Attenuation	>-18dB/Oct.				
		Flatness	<0.1dB (Within 2/3 cut-off frequency)				
		Anti-aliasing Filter		Figure 3 Multi-system Standalone Working Block Diagram			
		Cut-off Frequency	1/2.56 of sampling rate				
		Stop-band Attenuation	- 100dB/Oct.				
		Flatness	+0.05dB (Within analysis frequency range)				
	1		indexed a second se				

±0.05dB (Within analysis frequency range)

Dimensions	55mm(L)×62mm(W)×10mm(H) (Inclu. protruding connectors)
Weight	Approx. 39g
Power Consumption	1.5W
Acquisition Control Modu	le
Number of Controlled Modules	Up to 4 controlled modules
Storage	32G
Sampling Rate	Up to 128kHz/channel
Supply Voltage	External 10 ~ 30V DC
Communication	USB2.0
Dimensions	55mm(L)×61mm(W)×21mm(H) (Inclu, protruding connectors)
Weight	Anorox 77g
Power Consumption	1W
Li-battery Module	
Rechargeable Battery Canacity	
Madula 4	2000-11 1 5
Module 1	2000mAn, 1.5h
Module 2	
Module 3	BOUUMAN, 4.5h
Charging Time	
Module 1	3h
Module 2	6h
Module 3	9h
Dimensions	
Module 1	55mm(L)×57mm(W)×20.5mm(H)
Module 2	55mm(L)×57mm(W)×37mm(H)
Module 3	55mm(L)×57mm(W)×57.5mm(H)
Weight (module 1)	Approx. 114g
Environmental Conditions	
Operating Temperature	- 20°C ~ 60°C
Operating Humidity	5 ~ 90%RH@50°C
Storage Temperature	- 40°C ~ 70°C
Storage Humidity	90%RH48h@60°C
	Frequency cycle range: 5Hz ~ 55Hz ~ 5Hz Drive amplitude (peak): 0.19mm
Vibration	Sweep frequency: ≤1Oct./min
	Duration or resolitant. 20mm