# *SD Card, real time data logger, + type K Temp., Patent Two probes : UVA probe, UVC probe*

**UVA, UVC LIGHT METER** 

## Model : YK-37UVSD

*ISO-9001, CE, IEC1010* 



## SD Card real time data logger UVA, UVC LIGHT METER Model : YK-37UVSD

<ul> <li>* UVA, UVC lig</li> </ul>	ht measurement in one meter.	Memory with	Records	Maximum &	Minimum reading
* Long wave 365 nm ultra-violet irradiance measurement.		Recall	with recall.		
Professional	UVA light meter, used to measure the	Datalogger	Auto	1 second to	o 3600 seconds
UVA irradiati	ion value under the UVA light ( black light )	Sampling Time		@ Sampling	time can set to 1 second,
source.		Setting range		but memo	ory data may loss.
* Short wave 2	254 nm ultra-violet irradiance measurement.		Manual	Push the d	ata logger button
Professional	UVC light meter, used to measure the			once will sa	ave data one time.
	on value under the UVC light source.				empling time to
	: 2 mW/cm^2, 20 mW/cm^2.			0 second.	
	sensor structure with metallic housing case.				ode, can also select the
	with cosine correction filter.				osition ( Location ) no.
	build Zero button.	Memory Card	SD mem		GB to 16 GB.
	for the UV light measurement : Monitoring	Advanced			
	• •	setting	* Set clock time ( Year/Month/Date, Hour/Minute/ Second ) * Decimal point of SD card setting		
	diation hazards in welding, UV sterilization ,	setting			
	, Photochemical matching, UV EPROM		* Decimal point of SD card setting * Auto power OFF management		÷
	otoresist exposure, Curing of inks, adhesives		* Auto po	ower OFF man	agement
and coatings					
* Microprocessor circuit provides high reliability and		Temperature	Automatic temp. compensation for the		
durability.		Compensation	type K/J thermometer.		
<ul> <li>* Separate UV</li> </ul>	LIGHT probe allows user to measure the	Advanced	* Set beep Sound ON/OFF		
UV light at a	n optimum position.	setting	* Set thermometer type to Type K or Type J		e to Type K or Type J
* Туре К, Тур	e J thermocouple thermometer.		* Set temperature unit to $\ensuremath{^\circ\!C}$ or $\ensuremath{^\circ\!F}$		
<ul> <li>Real time SE</li> </ul>	) memory card Datalogger, it Built-in Clock		* Set sampling time		
and Calenda	r, real time data recorder , sampling time set		* SD memory card Format		
from 1 secor	nd to 3600 seconds.	Data Hold	Freeze th	ne display re	eading.
* Manual data	logger is available ( set the sampling	Memory Recall	Maximun	n & Minimur	m value.
time to 0),	during execute the manual datalogger	Sampling Time	Approx.	1 second.	
function, it c	an set the different position ( location ) No.	of Display			
(position 1 to position 99).		Data Output	RS 232/USB PC computer interface.		
<ul> <li>Innovation a</li> </ul>	ind easy operation, computer is not	]   .	* Connect the optional RS232 cable		
	ip extra software, after execute		UPCB-02 will get the RS232 plug.		
				ct the option	
datalogger, just take away the SD card from the meter and plug in the SD card into the computer,				1 will get the	
-	load the all the measured value with	Operating	0 to 50 °		oob plug.
	prmation ( year/month/date/		0 10 50 1	C.	
		Temperature	1 41	- 050/ D II	
	/second ) to the Excel directly, then	Operating	Less than 85% R.H.		
	ke the further data or graphic	Humidity			
analysis by t		Power Supply	* Alkaline or heavy duty DC 1.5 V battery		
	acity : 1 GB to 16 GB.		(UM3, AA) x 6 PCs, or equivalent.		
	een light backlight, easy reading.		* DC 9V adapter input. ( AC/DC power		
	auto power off or manual power off.			er is optiona	
* Data hold, re	ecord max. and min. reading.	Power Current	Normal o	operation ( v	v/o SD card save
<ul> <li>Microcomputies</li> </ul>	ter circuit, high accuracy.		data and LCD Backlight is OFF) :		
* Power by UN	//3/AA (1.5 V) x 6 batteries or DC 9V		Approx. DC 6.5 mA.		
adapter.			When SD card save the data but and LCD Backlight is OFF):		
* RS232/USB	PC computer interface.				
			Appro.	x. DC 30 m/	4.
GENERAL SP	ECIFICATIONS		*.If LCD	) backlight o	n, the power
Circuit	Custom one-chip of microprocessor LSI				increase approx.
	circuit.		16 mA	,	
Display	LCD size : 52 mm x 38 mm	Weight	Meter	351 g.	
	LCD with green backlight ( ON/OFF ).		UVA	100 g.	
Measurement	UV Light : UVA, UVC	1	probe		
Measurement			UVC	102 0	
	Type K/J thermometer	1		103 g.	
UVA, UVC	Selct by pushin the front button.		probe	477	45
slectrion		1	Meter		x 45 mm
UV Sensor	UVA : 250 nm to 390 nm.		UVA	Head	45 mm dia x 32 mm
spectrum	UVC : 200 nm to 290 nm.		probe	Handle	125 x 24 mm dia.
cover range		4	UVC	38 mm E	DIA. x 25 mm
UV 'sensor	The exclusive UV photo sensor with		probe		
structure	the cosine correction filter.	Accessories	* Instru	ction manua	ıl1 P
UV light zero	By push button.	Included			1 P
adjustment					
		1.1	* UVC light sensor		

nory with	Records	Maximum & N	/inimum reading	Optiona	
all	with recall.			Accesso	
alogger	Auto				
pling Time		@ Sampling tin	me can set to 1 second,		
ing range		but memory	data may loss.		
	Manual	Push the dat	a logger button		
		once will sav	e data one time.		
		@ Set the sam	pling time to		
		0 second.			
		@ Manual mod	le, can also select the	ELECTI	
		1 to 99 posi	ition ( Location ) no.		
nory Card	SD mem	ory card. 1 GE	3 to 16 GB.	UV Lig	
anced	* Set cloc	k time ( Year/M	lonth/Date,		
ing	Hour/Minute/ Second )			Measure	
	* Decimal point of SD card setting			ranges	
	* Auto po	wer OFF manag	jement	resoluti	
				_	
perature			pensation for the	Accurac	
pensation	type K/J	thermometer		_	
anced		p Sound ON/OF			
ing	* Set the	mometer type	to Type K or Type J		
	* Set tem	perature unit to	°C or °F		
	* Set sam	pling time			
	* SD men	nory card Forma	at	UVA se	
a Hold	Freeze th	ie display rea	ding.		
nory Recall	Maximun	n & Minimum	value.	0.2	
pling Time	Approx.	I second.		0.1	
isplay				0.1	
a Output	RS 232/L	ISB PC compu	uter interface.	.≩ <sup>0.1</sup>	
		ct the optional		0.0 Kesponsivit	
		02 will get the		0.0 0.0 0.0 Kg	
	* Conned	ct the optional	USB cable	0.0	
		will get the U	ISB plug.	0.0	
rating	0 to 50 °	5.		0.0	
perature					
rating	Less than	n 85% R.H.			
nidity				UVC se	
er Supply		-	uty DC 1.5 V battery		
	(UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power				
			-		
		r is optional)		≷ 0	
er Current			o SD card save	Responsivity ( A/	
	data and LCD Backlight is OFF) : Approx. DC 6.5 mA.				
	When SD card save the data but and				
	LCD Backlight is OFF) :				
	-				
	Approx. DC 30 mA. C *.If LCD backlight on, the power				
	* .If LCD backlight on, the power consumption will increase approx.				
	16 mA		леазе арргох.		
ght	Meter	351 g.		_	
gin	UVA	100 g.		Туре К	
	probe	100 g.			
	UVC	103 g.		Sensor	
	probe			Туре	
	Meter	177 x 68 x	45 mm	Туре К	
	UVA		15 mm dia x 32 mm		
	probe		25 x 24 mm dia.	11	
	UVC			-	
	UVC 38 mm DIA. x 25 mm probe			Type J	
essories		tion manual			
uded					
	1 IN 10 I				

Hard carrying case, CA-06.....1 PC

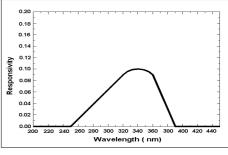
otional	*	SD Card ( 4 GB )
cessories	*	Type K thermocouple probe.
		TP-01, TO-02A, TP-03, TP-04, TP-05
	*	AC to DC 9V adapter.
	*	USB cable, USB-01.
	*	RS232 cable, UPCB-02.
	*	Data Acquisition software, SW-U801-WIN.
	*	Excel Data Acquisition software, SW-E802

#### FRICAL SPECIFICATIONS (23±5℃)

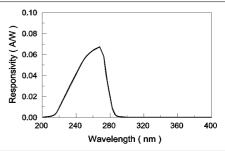
#### ght (UVA, UVC)

Measurement	Range 1 : 2 mW/cm^2 :		
ranges &	1.999 mW/cm^2 x 0.001 mW/cm^2		
resolution	Range 2 : 20 mW/cm^2 :		
19.99 mW/cm^2 x 0.01 mW/cm^2		mW/cm^2	
Accuracy	± ( 4 % FS + 2 dgt ).	FS : full scale	
	* UVA Calibration is executed und	ler the UVA light &	
	and compare with the standard UVA light meter. • UVC Calibration is executed under the UVC light & and compare with the standard UVC light meter.		

### ensor spectrum



#### ensor spectrum



#### K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Туре К	0.1 ℃	-50.0 to 1300.0 ℃ -50.1 to -100.0 ℃	± (0.4 % + 0.5 ℃ ) ± (0.4 % + 1 ℃ )
	0.1 °F	-58.0 to 2372.0 °F -58.1 to -148.0 °F	$\pm (0.4\% + 1^{\circ}F)$ $\pm (0.4\% + 1.8^{\circ}F)$
Type J	0.1 °C	-50.0 to 1200.0 °C -50.1 to -100.0 °C	± (0.4 % + 0.5 ℃) ± (0.4 % + 1 ℃)
	0.1 °F	-58.0 to 2192.0 °F -58.1 to -148.0 °F	± (0.4 % + 1 °F) ± (0.4 % + 1.8 °F)

PATENT CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany : Nr. 20 Appearance and specifications listed in this brochure are subject to change without notice. Germany : Nr. 20 2008 016 337.4 JAPAN : 3151214