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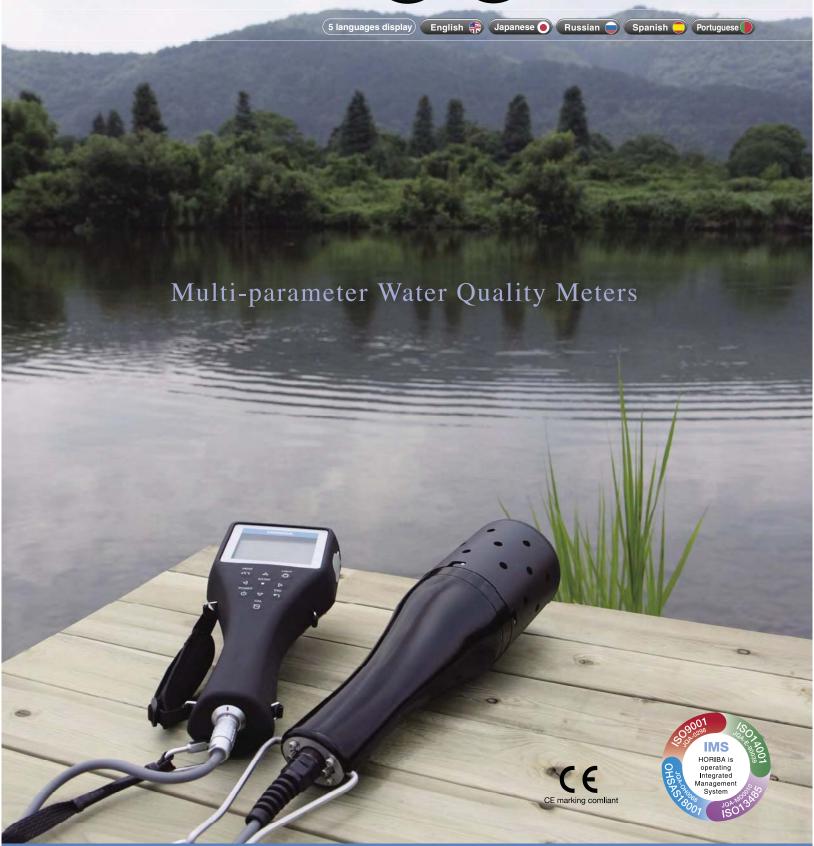
Email: sales@calright.com http://www.calright.com



Rugged Outdoor Design

Multi-parameter Water Quality Meters

U-50 Series



Measure and Display 11 Parameters Simultaneously with Newly Designed Control Unit and Sensor Technology.

Intuitive software assures ease of use and operation efficiency.

Experience the durability and performance of an instrument that exceeds your expectations in the field testing of ground water and surface water applications.

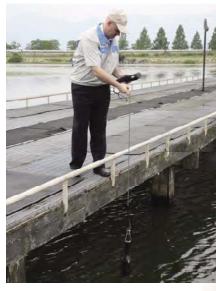




Innovative Features,

U-50 Series

Design and Performance that Makes Measurement Easy in a Variety of Applications



Measurement at a Drainage **Ditch or Wharf**

Instantaneously monitor, collect and store data while moving the submersed sensor probe unit.



Measurement in Marshes

The control unit's waterproof design allows the user to work without concern of splashing or accidentally dropping the control unit in the water. The backlight display allows the user to take measurements in the dark.

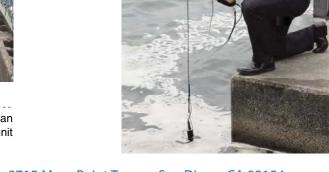
Measurements in Surface Water

The long 30 meter cable option allows the user to deploy the sensor probe unit and collect measurement data at varying depths. The GPS models facilitate environmental surveys of oceans, lakes and rivers.



Measuring Ground Water from an Intake

With the sensor probe lowered and submersed at an intake, 10,000 data sets can be stored in the control unit

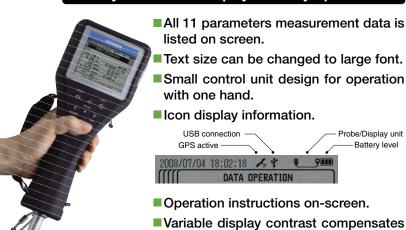




Exceptional Performance and Optimal Design for field app

Control Unit >>>

Easy to read LCD Display and Easy Operation



Control Unit Design for Field Operations

for extreme ambient lighting conditions.

- Auto-calibration feature provides hassle free calibration of pH, dissolved oxygen, conductivity, turbidity and depth.
- Shock resistant cover designed for rough treatment in the field and is easily cleaned.
- Cable can be easily connected and disconnected with quick-connect fitting.

Data Management

- Auto hold function freezes average data values on the screen to offer more time to verify or transcribe data.
- Diagnostic functions notify the user of errors.
- Integral USB connection for data transfer to a PC. USB cable is sold separately and includes software.
- Selectable measurement units allow the operator to report data without the need to convert data to desired units of measure.



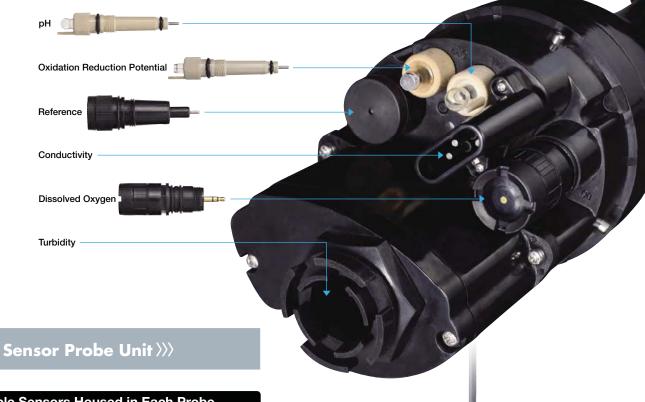


■ GPS Compatible (U-52G/53G/54G)

The system can be used in conjunction with the Global Positioning System (GPS) to record latitude, longitude, and other location data for individual measurements. This is particularly useful for environmental surveys.



plication



Multiple Sensors Housed in Each Probe

- Multiple sensors allow for the measurement of 11 parameters simultaneously.
 (pH, pH (mv), ORP, DO, COND, Salinity, TDS, Seawater Specific Gravity, Temperature, Turbidity, Water depth)
- Turbidity Sensor U-53 conforms to US EPA method 180.1. Precision has been improved over conventional instruments. The Model U-53 high precision field replaceable turbidity sensor with wiper has a resolution of 0.01 NTU.
- Turbidity sensor of U-54 conforms to EN ISO 7027. The model U-54 has a resolution of 0.01 NTU.
- Improved stability of the dissolved oxygen sensor has been achieved with a new 3 electrode design for fast response and polarographic sensor for ease of maintenance.
- ■pH and ORP electrodes can be replaced individually to reduce replacement costs.

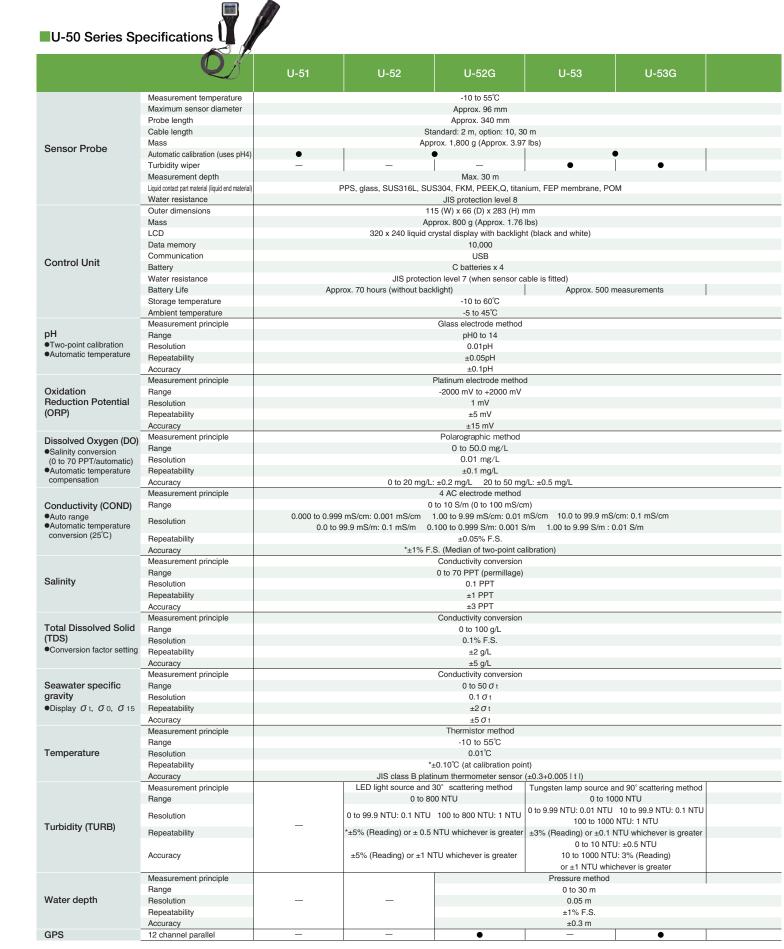
■U-5X series specification comparison list

	U-51	U-52	U-52G	U-53	U-53G	U-54	U-54G
pH							
ORP (Oxidation Reduction Potential)							
Dissolved Oxygen							
Conductivity							
Salinity							•
TDS (Total Dissolved Solids)							•
Seawater Specific Gravity							
Temperature							
Turbidity (LED)	_			_	_		
Turbidity (Tungsten lamp)	_	_	_			_	_
Water depth	_	_				•*	•*
GPS	_	_		_		_	

Note: 'U-54/G(2m) don't have the feature of water denth.

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Note:

- * Battery life based on continuous operation using alkaline C dry batteries when the monitor temperature is over 20°C and the backlight OFF.
- * Accuracy is measured by calibrating 4 points for turbidity and electrical conductivity and 2 points for all other measurements against standard solution.

 * Repeartability is measured by the ability to reproduce the results against the standard solution (at 25°C normal pressure condition).



U-54	U-54G
	•
_	_
Approx. 70 hours	(without backlight)
, , , , , , , , , , , , , , , , , , ,	(
0 to 10	90° scattering method 00 NTU
	NTU: 1 NTU
	NTU whichever is greater
 ±5% (Reading) or ±1 N	TU whichever is greater
Pressure method, only	10m and 30m product

■U-50 Series

Cable le	ength	Model	Code
U-51	2 m	U-51 (2 m)	3200164509
0-31	10 m	U-51 (10 m)	3200164510
	2 m	U-52 (2 m)	3200164501
U-52	10 m	U-52 (10 m)	3200164502
	30 m	U-52 (30 m)	3200164503
	2 m	U-52G (2 m)	3200156563
U-52G	10 m	U-52G (10 m)	3200164499
	30 m	U-52G (30 m)	3200164500
	2 m	U-53 (2 m)	3200164506
U-53	10 m	U-53 (10 m)	3200164507
	30 m	U-53 (30 m)	3200164508
	2 m	U-53G (2 m)	3200158178
U-53G	10 m	U-53G (10 m)	3200164504
	30 m	U-53G (30 m)	3200164505
	2m	U-54 (2 m)	3200323680
U-54	10 m	U-54 (10 m)	3200323681
	30 m	U-53 (30 m)	3200323683
	2m	U-54G (2 m)	3200323686
U-54G	10 m	U-54G (10 m)	3200323687
	30 m	U-54G (30 m)	3200323688

■Standard Accessories

Item	Quantity
pH4 standard solution (500mL)	1
pH reference internal solution (250 mL)	1
DO sensor internal solution set •Internal solution (50mL) •Sandpaper (#8000, #600) •Syringe	1
DO Membrane space parts set	1
Spanner for DO sensor	1
Cleaning brush	1
Calibration cup	1
Back pack	1
Strap	1
Alkaline batteries LR14	4
Silicon grease	1
Instruction manual	1

Consumables

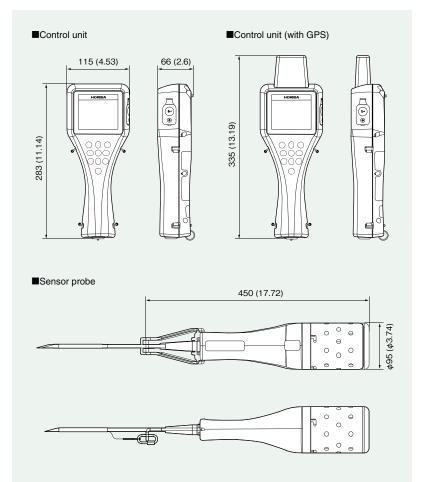
Item		Model	Code
pH sensor		7112	3014057312
pH sensor	ToupH	7113	3200170923
ORP sensor		7313	3200170920
DO sensor		7543	3200170924
Reference senso	r	7210	3200043582
Reference tip		_	3200043587
Turbidity sensor	U-52/52G	7800	3200172803
Turbidity sensor	U-53/53G	7801	3200172800
Turbidity sensor	U-54/54G	7802	3200318188
DO membrane ca	ар	_	3200170194
DO Inner fluid	50mL	306	3200170938

■Standard solution

	Item		Model	Code
	pH4 (for automatic calibration),	500 mL	100-4	3200043638 (9003001600)
	pH4 (for automatic calibration),	4 L	140-4	3200174430
Standard	pH7		100-7	3200043637 (9003001700)
solution	рН9		100-9	3200043636 (9003001800)
	ORP standard solution powder	For 250 mL×10	160-51	3200043618 (9003003100)
	ORP standard solution powder	For 250 mL×10	160-22	3200043617 (9003003000)
Internal solution	Internal solution for pH reference	e 250 mL	330	3200043641 (9037005200)



Dimensions unit: mm (in)



Option

Item	Model	Code
Carrying case	U-5030	3200174772
Flow chamber	_	3200156570
Probe guard	_	3200167002
Cable (with data-collection software)	_	3200174823

HORIBA continues contributing to the preservation of the global environment through analysis and measuring technology.





Please read the operation manual before using this product to assure safe and proper handling of the product.

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Bulletin:HRE-1930D

Printed in Japan T-TF(SK)00

