

UMDR-H

Universal River Velocity Radar(Hydrology)

Certified by
NCC and FCC
regulations.

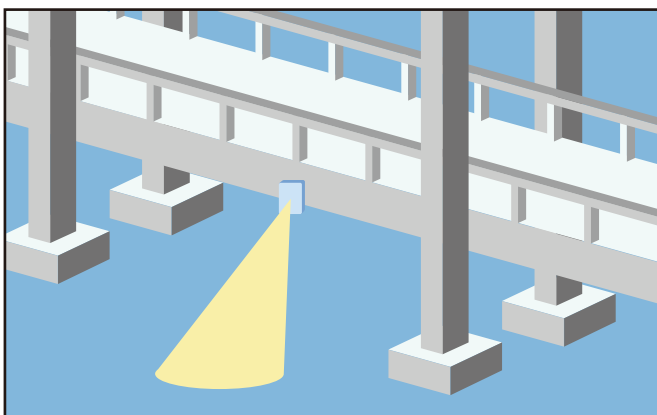
Designed
and produced
in Taiwan.

High precision

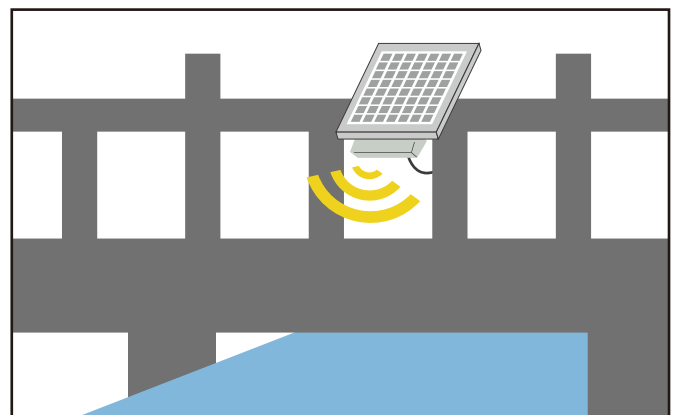
Adapt to different
climates and
environments.



River Surface Velocity Radar utilizes microwave continuous wave radar technology to measure river surface velocity in a non-contact way. It can be widely used for measuring water surface velocity in various rivers, channels, and reservoirs, providing real-time monitoring data of water flow velocity. The measurement range of this product is 0.5M to 100M, with built-in automatic correction values for leveling instrument and compensation for the angle of inclination, high gain narrow beam angle antenna, and low noise high-speed digital signal processing, ensuring high accuracy. It can be powered by a solar panel system and can be transmitted to a remote monitoring platform through wired or wireless communication for analysis and integration of multiple velocity meters, improving flood warning and water resource management efficiency.

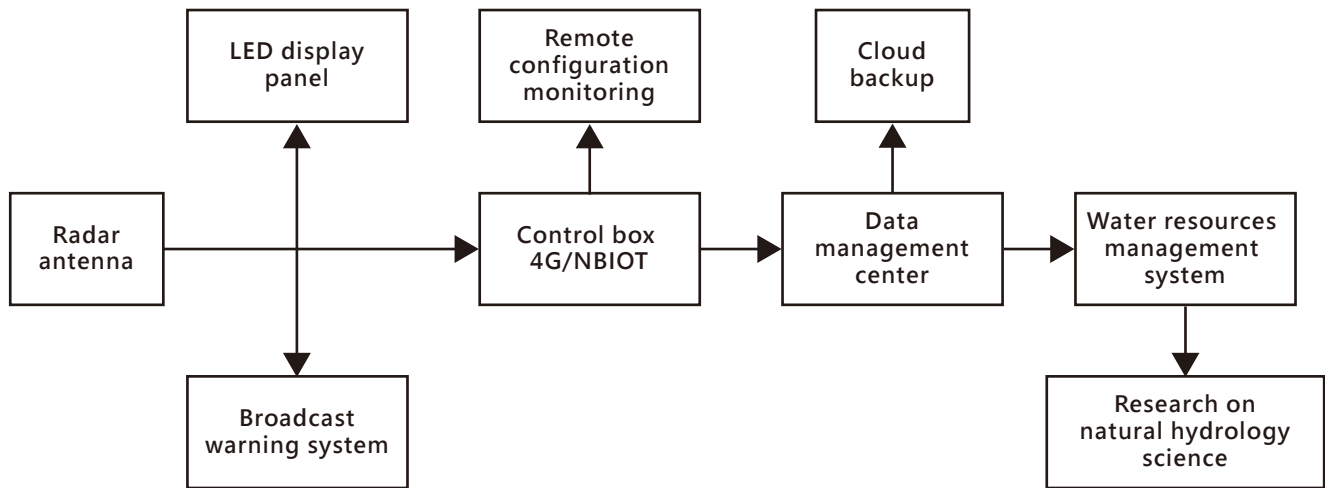


Radar and Solar Panel Schematic Diagram



Surface Velocity Detection Schematic Diagram

Radar System Operation Process :



Application of product performance (partial cooperation cases):



Kameyama & Jiajiuliao Flow detection



Pingtung Sandimen Bridge



Miaoli Keshu Bridge

Product Information

Product name	UMDR-H
Application scope	Velocity measurement in a wide range of waters
Antenna beam width	5.5° x 11° (Customization)
Measurement distance range	0.5m~100m
Flow velocity measurement range	0.2m/s~30m/s
Flow velocity measurement resolution	0.01m/s
Flow velocity measurement accuracy	±8% in 0.2~5.0m/s ; ±3% in 5.0~30m/s
Transmission rate	4800bps
Data output format	MODBUS
Waterproof specification	IP-67
Dimensions	213 x 253 x 124mm
Communication interface	RS-232 / RS-485 / 4~20mA
Environmental adaptability	Operating temperature-35°C~+60°C ; 0~95%RH
Regulatory certification	NCC ; ISO-9001