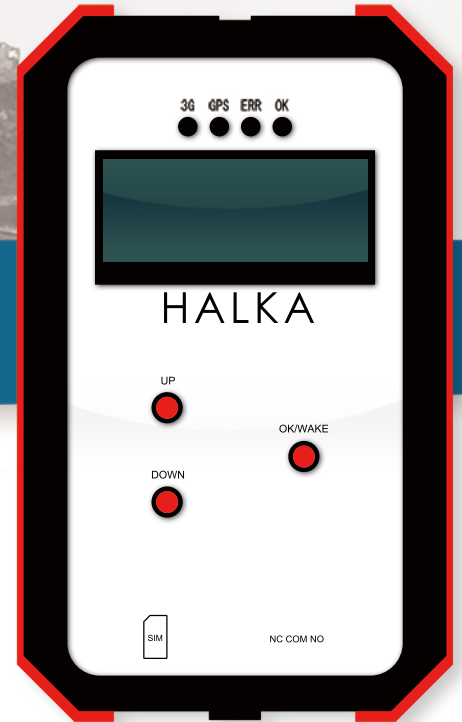


遠 HALKA



Functions ※ Patent Pending

- Automatically upload measurements from attached sensors to cloud server
- Check measured data from a smartphone or PC
- Remotely configure data send frequency from the web (frequencies are set in 10 min. intervals)



Connectivity

Option to choose from a wide range of sensors (i.e. temperature, humidity, barometric pressure, vapor pressure, electric permittivity, water level, etc.)



Global Ready

Mobile connectivity in 120 countries around the globe



Relocatable

Observation points can be easily altered because units can be setup effortlessly (Units are light weight, and operates with regular dry cell batteries)



Origin

The name HALKA is taken from the Chinese proverb "路遙知馬力 日久見人心" which professes that it takes a long distance travel to know a horse's strength, and it takes time to understand a person's heart.



HALKA Use Case

Observation of lightnings at Mt. Fuji summit

Proposed ideas to utilize the meteorological station at Mt. Fuji summit



Install HALKA connected to a lightning, temperature, humidity, and barometric pressure sensors



Collect and analyze data from HALKA to verify whether lightning occurrences can be monitored



		HALKA	Field Router
Manufacturer		X-Ability	X-Ability
Unit Price		¥ 50,000 JPY	¥ 198,000 JPY
Connection cost		¥ 10,000 JPY (120 countries)/Year	¥ 36,000 (Japan)/Year
System Configuration		All-in-one	Base unit w/connectivity + sensor unit
	Max. number of sensors	None	256
Camera		None	1920x1080
	Sensor unit	None	BT2.0
Connectivity	Range between base and sensor units	None	100m
	Internet	2G / 3G / 4G	2G / 3G / 4G
	Base unit	3 AAA batteries + Solar	Solar powered
	Sensor unit	—	—
Power supply	Battery life	6 months with AAA batteries	—
Sensor		Meter Co. ATMOS41 etc. SDI-12 sensors & analog sensors (via multiplexer)	Decagon data logger Campbell data logger Davis data logger etc.
Management		Web base UI (IFTTT compatible)	None

HALKA Use Cases



Hyderabad, India



Hyderabad, India



Hyderabad, India



Mt. Fuji summit, Japan

