GLOBAL MESSENGER

BACKPACK TRACKER

TECHNICAL SPECIFICATIONS

Engineered with an ultra-lightweight and aerodynamic design, this backpack-mounted avian tracker minimizes behavioral disturbance and metabolic burden, thereby ensuring ecological validity in free-ranging bird studies. It is compatible with a wide range of avian taxa. The device enables high-resolution, continuous tracking for research in migratory dynamics, fine-scale spatial ecology, and diel activity rhythm analysis.

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BACKPACK TRACKER PRODUCT PARAMETERS

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Model	Weight (g)	length (mm)	Width (mm)	Height (mm)	High-density positioning (per min)	ACC data period (min)	ODBA	Data capacity (data points)	Antenna	Transmission Protocol	Runtime in Darkness (day)
HQBV0601	1.15	custom-ization	custom-ization	6	-	support	support	260 k	external	VHF	7
HQBV10016	1.9	23	10	11	1	10	support	260 k	external	VHF	7
HQBV1002	2.2	23	10	12	1	10	support	260 k	external	VHF	15
HQBG1202	2.7	24	13	12	1	10	support	260 k	external	CAT1/ Cat-M1/ Cat-NB2	15
HQBG1203	3.5	24	13	13	1	10	support	260 k	external	CAT1/ Cat-M1/ Cat-NB2	20
HQBG1204	5.1	30	18.5	12	1	10	support	2.6 m	external	CAT1	15
HQBG1205	5.7	30	18.5	12	1	10	support	2.6 m	external	CAT1	15
HQBG1206	6.8	34	18.5	13.5	1	10	support	2.6 m	external	CAT1	15
HQBG1507	7.1	35	18.5	15.5	1	10	support	2.6 m	external	CAT1	15
HQBG2009P	9	35	21	16	1	10	support	2.6 m	external	CAT1	15
HQBG2210	10.5	47	21	22	1	10	support	2.6 m	internal	CAT1	15
HQBG1512S	13	48	21	15	1	10	support	2.6 m	external	CAT1	15
HQBG2512L	13	51	20	23.5	1	10	support	2.6 m	external	CAT1	15
HQBG2512S	15	55.5	24	25	1	10	support	2.6 m	internal	CAT1	15
HQBG1815S	18	63	23	18	1	10	support	2.6 m	internal	CAT1	15
HQBG2715L	17	58	24	24	1	10	support	2.6 m	internal	CAT1	15
HQBG2715S	17	55	26	27	1	10	support	2.6 m	internal	CAT1	15
HQBG3621L	24	70	24	35	1	10	support	2.6 m	internal	CAT1	15
HQBG3621S	23	55	26	36	1	10	support	2.6 m	internal	CAT1	15
HQBG5037L	62	98	39	44	-	10	support	2.6 m	internal	CAT1	30
HQBG5037S	40	65	35	50	1	10	support	2.6 m	internal	CAT1	15

Working temperature:-40 ~ 70℃ Waterproof level: IP68

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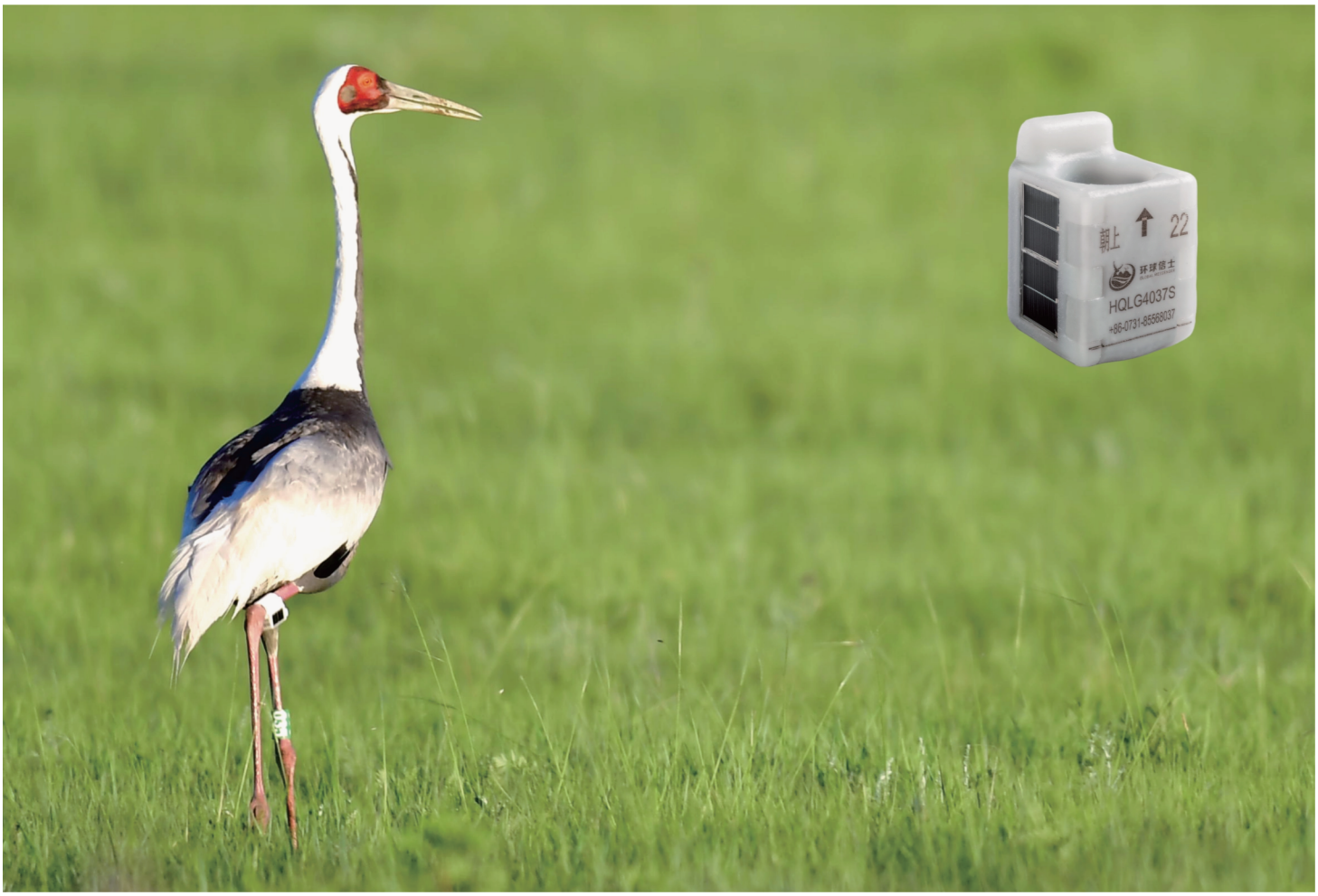
LEG RING TRACKER

GLOBAL MESSENGER

TECHNICAL SPECIFICATIONS

The HQLG4037S tracking unit is designed for leg-mounted deployment on large-bodied avian species with robust tarsometatarsal structures, such as cranes, storks, and other wading birds. The device features a compact form factor and is available in multiple size variants to ensure anatomical compatibility across species. It is particularly suited for long-term studies on breeding phenology, migratory connectivity, and spatiotemporal habitat selection.



Model	Internal Diameter (mm)	Height (mm)	Weight (g)	High-density positioning (per min)	ACC data period (min)	ODBA	Data capacity (data points)	Antenna	Transmission Protocol	Runtime in Darkness (day)
HQLG4037S	14-24	51	37-44	1	10	support	2.6 m	internal	CAT1	15

Working temperature: -40~70°C Waterproof level: IP68

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NECK RING TRACKER

GLOBAL MESSENGER

TECHNICAL SPECIFICATIONS

The HQNG4625 tracking unit is suitable for long-necked waterbirds such as geese, swans, and large ducks. Featuring a segmentally adjustable architecture, they accommodate individual variation in neck morphology. These units support modular integration of multimodal sensors, including passive acoustic recorders and video modules, enabling the collection of high-resolution, multidimensional spatiotemporal behavioral datasets. The system is optimized for advanced behavioral modeling and ecological inference in field-based ethological research.

Model	Internal Diameter (mm)	Height (mm)	Width (mm)	Weight (g)	High-density positioning (per min)	ACC data period (min)	ODBA	Data capacity (data points)	Antenna Type	Transmission Protocol	Runtime in Darkness (day)
HQNG4625	30-60	40-80	32	34-75	1	10	support	2.6m	internal	CAT1	15

Working temperature: -40~70°C Waterproof level: IP68

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