

Free fall type Deep sea vehicle EDOKKO MARK- I Standard specifications

Model		Edokko HSG	Edokko 365	COEDO	
				10 inch "petite"	13 inch
Overview					
Size/Weight					
Weight	Weight in air (exc. Anchor and Floating communication unit)	approx.85kg	approx.200kg	approx.28kg	approx.51kg
	Weight in water (exc. Anchor)	approx. -13kgf	approx. -21kgf	approx. -7kgf	approx. -12kgf
Length	Main body (exc. Anchor and Floating communication unit)	Approx.170×62×36cm	approx.180×95×95cm	approx.75×37×7.5cm	approx.106×50×5cm
	Storage box (exc. Legs length 7cm)	approx.180×73×63cm	-	approx.114×64×42cm	approx.118×75×51cm
System configuration	Configuration	Floating communication unit, Transponder unit, LED light unit, Video unit, Frame for installing options, Anchor			
	Pressure resistant vessel	13in×4 spheres	13in×10 spheres	10in×2, 13in×1 spheres	13in×3 spheres
Floating communication unit	Wireless instrument	VHF radio beacon or Iridium beacon			
	Light emitting instrument	LED flasher			
Transponder unit	Transponder type	Acoustic transponder	Acoustic transponder	Timer transponder	Acoustic transponder
	Releaser	Heat cutting releaser Electrolytic releaser	Heat cutting releaser	Heat cutting releaser Electrolytic releaser	Heat cutting releaser Electrolytic releaser
	Battery Primary	DC7V×2, DC9V×1, DC12V×1, DC24V×1	DC7V×2, DC9V×1, DC12V×1, DC24V×1	DC7V×2, DC9V×1, DC12V×1	DC7V×2, DC9V×1, DC12V×1, DC24V×1
Constitution	LED light unit	Luminous Flux approx. 4000lm (in air, LED)			
		Directivity (1/2 intensity) ±60 degrees (in air, LED)			
		Color temperature 5000K (in air, LED)			
	Battery Secondary	DC14.8V-10000mAh×3	DC14.8V-10000mAh×20	DC14.8V-5000mAh×3	DC14.8V-10000mAh×3
Video unit	Angle of view	approx. 110 degrees (Horizontal field angle, in air)		approx. 113 degrees (Horizontal field angle, in air)	
	Effective pixel	5 million pixels		Front 5 million / Rear 5 million pixels	
	Display resolution	Full Hi-Vision (1080p / 30fps)			
	Unit number	1 to 3 (multiple angles)		2 (multiple angles)	
	Recording time 1080p/30fps	approx. 10 hours	approx. 44 hours	approx. 6 hours	approx. 10 hours
	Battery Secondary	DC14.8V-5000mAh×3	DC14.8V-10000mAh×20	DC14.8V-5000mAh×2	DC14.8V-5000mAh×2
Frame for options	PVC pipe	approx.62×145cm	approx.62×145cm	approx.93×36cm	approx.103×46cm
Anchor	Designation (Iron)	approx.40kg	approx.40kg	approx.20kg	approx.20kg
Environmental performance	Maximum depth	8000m		4000m	
	Temperature range	-40 to 85°C			
Shooting time	Video	Time-lapse shooting is possible (shortest interval: 3 minutes)			
	Still image	disapprove			
Synchronization control of shooting and lighting	Control circuit board	PIC control circuit board is used for Video unit and LED light unit			
	Setting method	Wireless type (Using XBee module, setting from PC to control circuit board)			
		Input shooting schedule: Start date / time [year / month / day / hour / minute], shooting time [minute], shooting start interval [minute], repeat times [times]			
	Setting item	Correct current time			
		Check and delete shooting schedule			
		Operation log records (start / end date, voltage sensor, temperature sensor)			
Options	Multi-angle shooting	Corresponds to shooting in sloping land, shooting in stereoscopic view, etc.			
	Photosensitive organism	Time-lapse lighting with red LED (Alternate illumination with white LED)			
Long-term observation	Synchronized shooting	Salvage within 90 days	Salvage within 365 days	Synchronized shooting and lighting from Video unit via penetrator	
	Power saving	Extended up to 1 year by energy saving of standby power			
	Battery addition	Extended up to 1 year by increasing rechargeable battery	-		
Deep sea depth	Deepest observation	Depths up to 8000m by modification of framing material and etc.			
Floating position	Floating communication	Acquire latitude and longitude information by the INMARSAT system			
Multi-acoustic controller		Correspondence to vessels not equipped with Multi-acoustic controller			
Observation sensor	CTD etc.	Installation of various sensors such as RINKO-Profler (JFE Advantech Co., Ltd.)			

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