

◆ Specifications

ELM products have high flexibility in design specifications such as cold region specs and overseas power compatibility. Feel free to contact us for your customization needs.

Mechanical				
Model	SRK1	SRK3	SRK4	SRK4XY
Mount System	AZ/EL			X/Y
Motor Type	AC Servo Motor			
Mountable Antenna Size	φ0.5 ~ 1.4m	φ1.5 ~ 3.0m	φ3.1 ~ 4.5m	φ3.1 ~ 4.5m
Movement Range	AZ axis -270° ~ +270° EL axis - 5° ~ + 95°			+5° ~ +175°
Tracking Speed	Typical 18.6°/sec Max. 46.5°/sec (Singularity avoidance operation)			
Tracking Resolution	90° / 20 000 pulse (0.0045° / Pulse)			
Encoder Resolution	—	20bit / 360°		
Singularity Avoidance	Max. pointing error 0.8° (Satellite altitude 400km)			—

Power Supply		Single-phase AC100V/200 to 240V 5A 50/60Hz	Single-phase AC200 to 240V 5A 50/60Hz	Three-phase AC200V 8A 50/60Hz
Main Unit	Max. Rotation Range *	φ1.8m	φ3.8m	φ5.2m
	Max Height *	2.0m	3.8m	5.2m
	Weight (excl. Antenna)	Approx. 80kg	Approx. 800kg	Approx. 900kg
Antenna Size *		φ1.4m	φ3.0m	φ4.5m
Lightning Countermeasures		Power system		Surge Protective Device
		Controls and RF Communications		Fiber-Optics

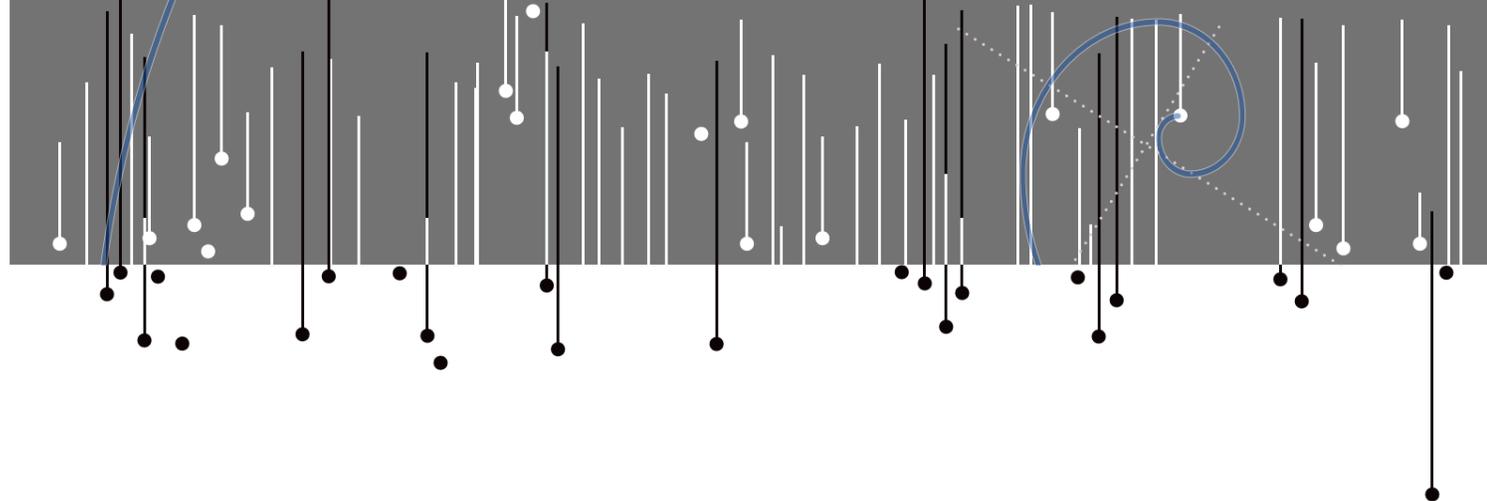
Environmental	
Operating Temperature	5 to 40°C (Cold region spec available upon request)
Installation Environment	All weather type
Installation	Anchor bolts installed on the foundation
Wind Speed	Without radome Operation 20m/s Stow 60m/s With radome Operation 60~90m/s

RF	
Frequency Band	UHF, L, S, C, X band
Polarization	LHCP and /or RHCP, linear
Feed Configurations	Center feed, Cassegrain

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As of 2023.11.6

Please note that product design, specifications, appearance, etc. are subject to change without notice.



Satellite Tracking System



Bringing satellite communications closer

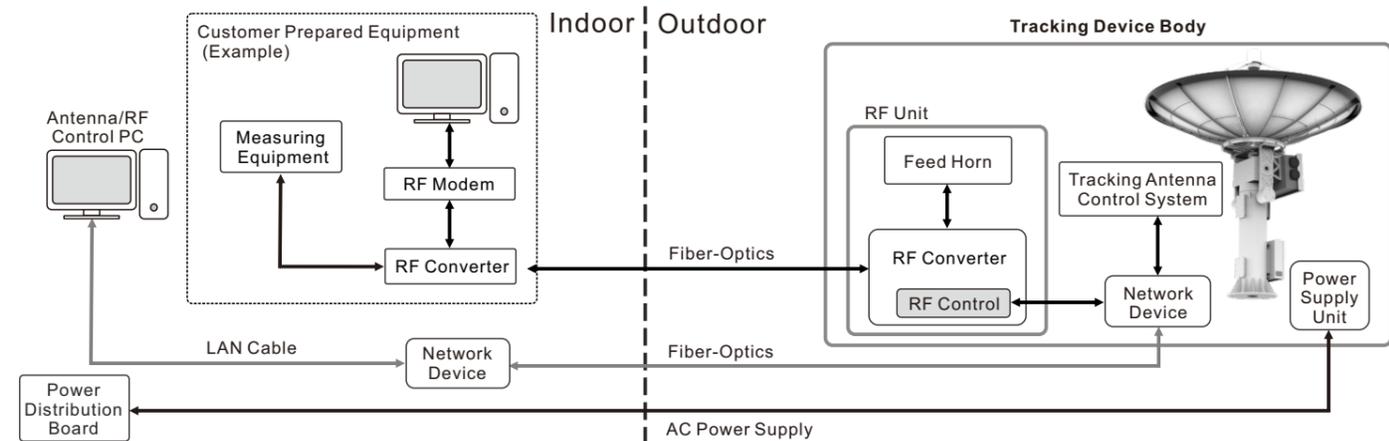


ELM is selected for the achievement and cost performance

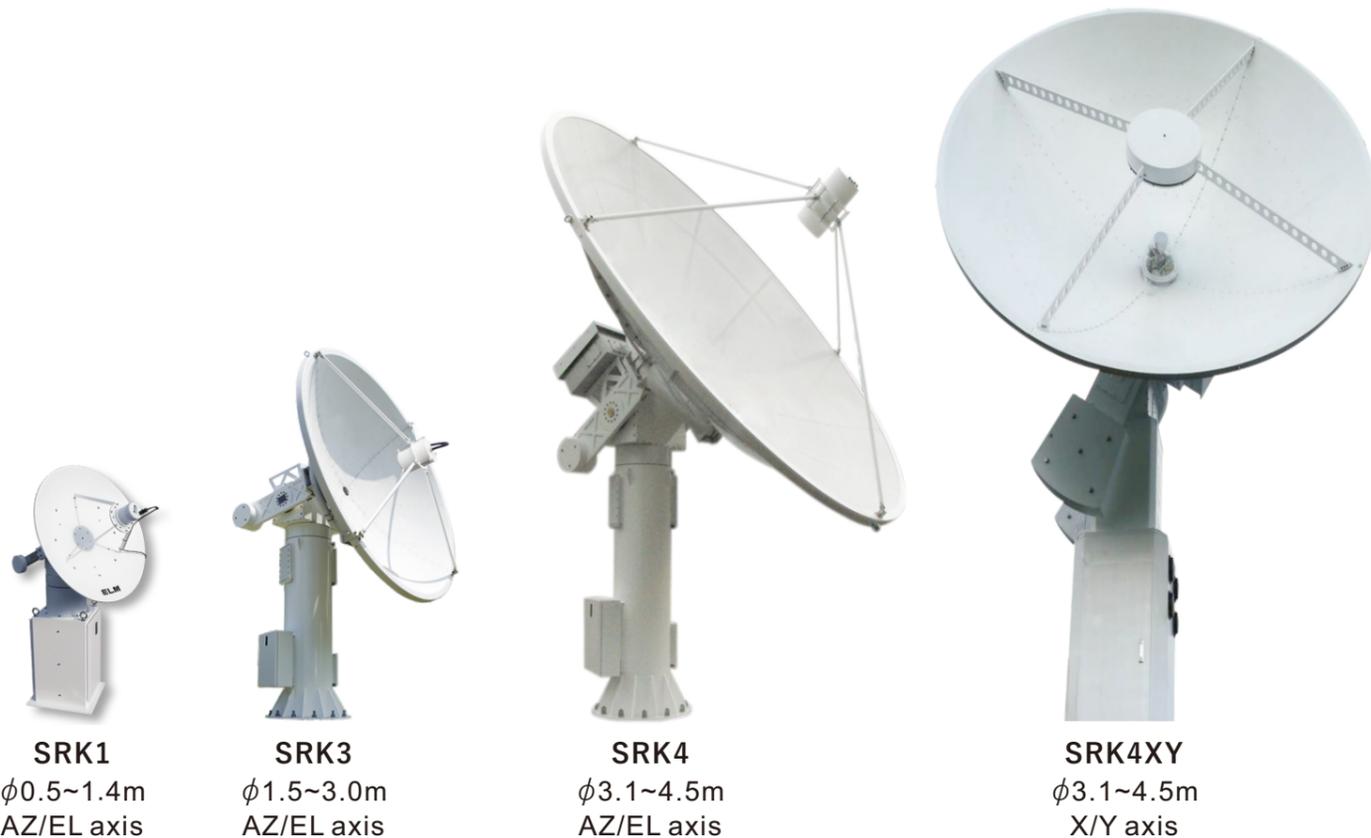
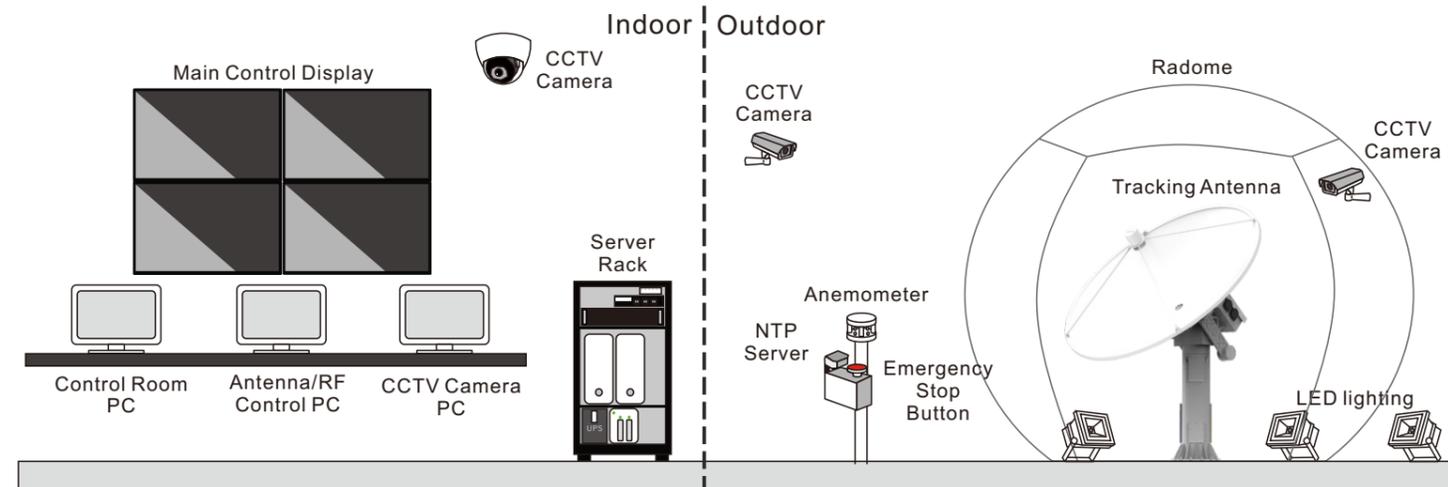
The Total Solution for your Ground Station

- * Antenna diameter size up to 4.5m
- * Compatible with low orbit satellites
- * Antenna control via network
- * Automatic operation from remote locations
- * Synchronous operation with multiple antennas
- * Specifications can be customized according to customer RF requirements
- * Rocket tracking also available

◆ System Configuration Diagram



◆ Ground Station Layout Example



● Radome Solutions

We also provide radomes to protect your antenna system from the environment.

- Conceals antenna system from public view
- Antenna operation is possible even under strong winds such as typhoons
- Protects the antenna system from harsh environments that exceed the typical operating conditions

Radome can be purchased separately. Contact us for details.

Diameter	Bandwidth	Structure	Environmental Performance
2.8~28m	UHF~Ka band	Fiber reinforced plastic or Honeycomb metal space frame	Wind speed resistance: Typical 60m/s (90m/s Available) environmental temp.: -60°C~+70°C

φ2.8m radome

