



# AERIAL *DRONE* COMPETITION

## MISSION 2025 *GRAVITY*



### AUTONOMOUS FLIGHT MISSION QUICK GUIDE

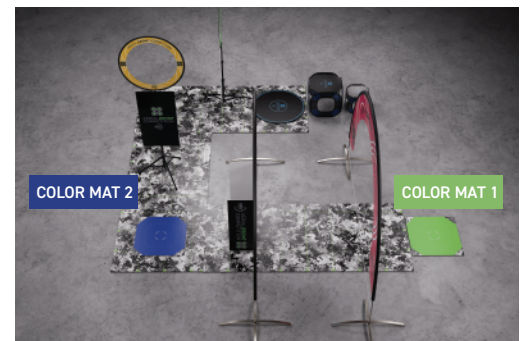
SCAN TO  
ACCESS  
MANUAL



- Up to 3 Flight Team Members are allowed at the field
- Teams have (2) five minute sessions to complete up to three (3) Autonomous Flight Skills Mission Matches during each session
- No limit on length of each Match but max of 5 minutes total. All Matches are scored
- Teams may adjust code in between Matches (5 minute time continues to run)
- Drone must start on Color Mat 1 at the beginning of the Match
- Reset to Color Mat 2 allowed once per Match (rule <AM16>)
- 5 minute timer begins once the team roll die for the first Match (rule <AM12>)
- Team must roll die and reset color mats in between each Match (rule <AM1>)
- Pilots/Programmers and Co-Pilots must remain in the Pilot Station during the Match (rule <AM14>)
- Visual Observers may walk around the perimeter during the Match (rule <AM15>)

### SCORING

TASK	POINT VALUE	MAX ALLOWED PER MATCH
Take off	10	Once per Color Mat
Identify Color	15	Once per Color Mat
Complete at Figure 8	40	Twice
Fly Under Arch Gate	5	Twice Per Arch Gate
Fly Through Keyhole	15	Twice Per Keyhole
Fly Through Small Hole	40	Twice
Fly Through Large Hole	20	Twice
Land on Landing Pad	15	Once
Landing Cube - Small	40	Once
Landing Cube - Large	25	Once





SCENARIO	MAT 1 (near red arch gate)	MAT 2 (near blue arch gate)
1	Red	Blue
2	Red	Green
3	Blue	Red
4	Blue	Green
5	Green	Blue
6	Green	Red

