

DESERT STAR ROBOTICS



ESTRELLA MOUNTAIN COMMUNITY COLLEGE



AVONDALE, AZ 1,912 MI 3,077 KM  ALPENA, MI

PRESENTS...



DUM-E



BASIC SPECS

- POWER: 48VDC SYSTEM
- DIMENSIONS (WITHOUT TOOLS):
 - LENGTH: 49.53CM / 19.5IN
 - WIDTH: 41.9CM / 16.5IN
 - HEIGHT: 33CM/13IN
- WEIGHT(WITHOUT TOOLS): 16.9KG/37.4LBS
- TOTAL COST: APPROX \$600
- TOTAL HOURS INVESTED: 190 HR

SAFETY FEATURES

- SHROUDED MOTORS
- ENCAPSULATED TETHER WITH MASTER FUSE
- WATERPROOF CONNECTIONS
- REGULATED AIR SYSTEM WITH MASTER SHUT-OFF
- TETHER STRAIN RELIEF
- HI-VISABILITY

SPECIAL FEATURES

- HIGH FOV, LOW LIGHT CAMERA SYSTEM
- 4 THRUSTER VECTORED CONFIGURATION THAT ALLOWS FOR 4-DOF MOVEMENT INCLUDING SWAY.
- FULLY DIGITAL CONTROL SYSTEM ALLOWING FOR QUICK TUNING
- HIGH SPEED MOVEMENT USING THE FULL CAPABILITY OF THE T200 THRUSTERS FROM BLUE ROBOTICS

THE TEAM!

DESERT STAR ROBOTICS REPRESENTS ESTRELLA MOUNTAIN COMMUNITY COLLEGE IN AVONDALE, ARIZONA. OUR TEAM OF FOUR IS COMPOSED OF SECOND-YEAR STUDENTS, AND THIS IS OUR FIRST TIME PARTICIPATING IN THE MATE COMPETITION. DESPITE THE CHALLENGES WE'VE FACED ALONG THE WAY, WE'VE WORKED HARD, GROWN STRONGER AS A TEAM, AND ARE EXCITED TO SHOWCASE OUR EFFORTS AND PROUDLY REPRESENT OUR SCHOOL ON THIS EXCITING NEW PLATFORM.



JEFF MILLER
MENTOR



ROBERT RIVERA
CHIEF EXECUTIVE OFFICER,
CHIEF FINANCIAL OFFICE



CRISTIAN ENRIQUEZ
CHIEF EXECUTIVE OFFICER



CARLOS AZABACHE
CHIEF TECHNICAL OFFICER



VELICITY GARCIA
OUTREACH AND MARKETING MANAGER