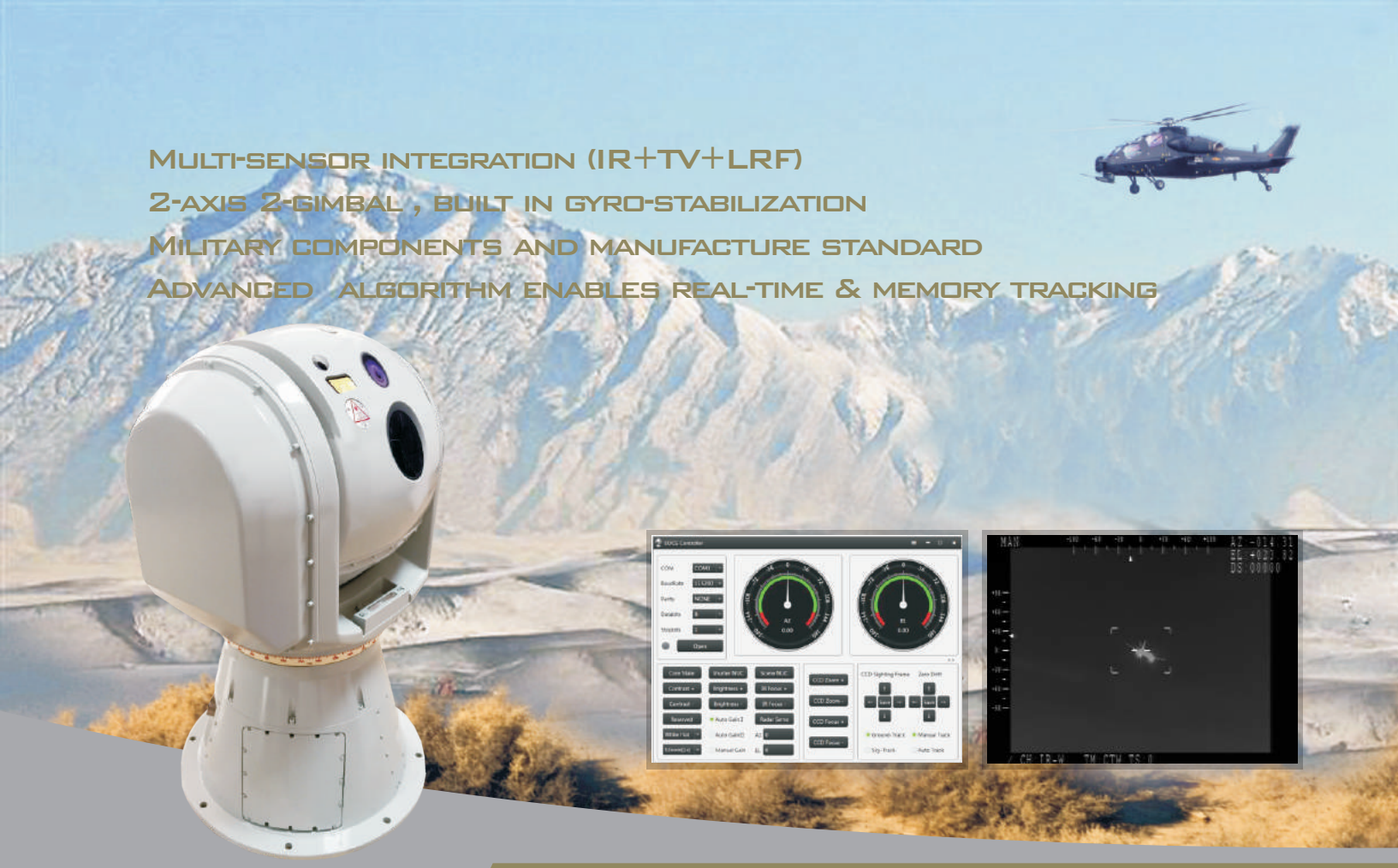

JH602-100

Multi-sensor Electro-optical Infrared (EO/IR) Tracking System

JH602-100 is provided as an affordable multi-sensor EO/IR tracking system for educational purpose and mass deployed. JH602-100 system is equipped with a high resolution LWIR uncooled thermal camera with 100mm lens, a day light camera and a 5Km laser range finder for detection, recognition, identification, aiming and ranging target at day and night, as well as provide real-time target azimuth, elevation, distance and video information. Built-in high accuracy gyro stabilization enables image stabilization while carrier attitude changes. Remote and Local operation is able to be switched flexibly according to practical application. Under remote operation mode, as a part of full defense system, it receiving target designation from mission computer and execute mission. Under local operation mode, it is used for navigation or monitoring.

FEATURE

◎ Multi-sensor integration (IR+TV+LRF)
◎ Advanced tracking algorithm enables real-time tracking and memory tracking if target lost temporarily
◎ 2-axis 2-gimbal mechanism, built in gyro-stabilization
◎ Military standard components greatly improves system reliability
◎ Super-strength aluminum alloy housing and fully sealed make sure system operation under any harsh environment
◎ Modular design easy for repair and update
◎ Friendly HMI for easy operation


Azimuth : 360°


Elevation : -20°~+70°


Eelctronic Cabin


Control Box

TECHNICAL SPECFICATION

THERMAL CAMERA	
Detector	Uncooled Vox FPA
Pixel	640x480
Spectral Range	8μm~14μm
IFOV	6.2° x 5.0°
System Parameter	100mm, F#:1
DAY LIGHT CAMERA	
Detector	752*582, 1/3" white/black CCD
FOV	55.8° x 2.1° continuous zoom
Video Resolution	200Lx ~105Lx
LASER RANGE FINDER	
Wavelength	1.06μm
Range	300m~5km (target visible at 10km and target typical size of 8m*2m)
Accuracy	≤ ± 5m
SYSTEM PARAMETER	
Stabilization Accuracy	≤ 0.2mrad (1σ)
Turret Direction Range	Azimuth: ± 180° (continuous scanning)
	pitch: -20°~+70°
TURRET MAXIMUM ANGLE SPEED	
Azimuth	≥50°/s
Pitch	≥50°/s
Video Signal Format	CCIR PAL B/W
Electronic	zoom×2
Communication	RS232/RS422
ENVIRONMENTAL TEMPERATURE	
Working Temperature	-40℃ ~ +50℃
Storage Temperature	-40℃ ~ +65℃
POWER SYSTEM	
Power Supply	DC 24V/15A, DC28V/15A
Power Consumption	DC24: ≤350W DC28V : ≤420W
PHYSICAL PARAMETER	
Dimension (L×W×H)	Turret : Φ400×630mm
	Electronic Cabin: 159x346.8x185.5mm
	Control box : 364×200.5×137.5mm
Weight	Turret : ≤70kg
	Electronic Cabin: ≤8.2kg
	Control Box : ≤1.2kg