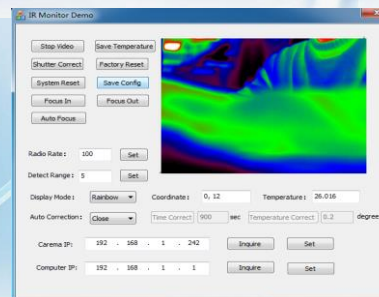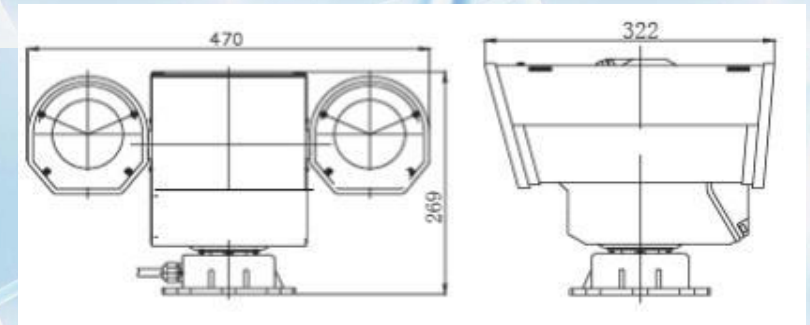# MATT SERIES – CAR IR 2707

Vehicular Pan & Tilt / Thermal imaging system

for inspection of electric power installations

- Large turning range: 360° horizontal, −90° to +90° vertical

- Double cameras: IR thermography camera and visible camera

- Industrial IP67 design fit for harsh operation environment

- Robust and anti-vibration design for vehicle installation

- Easy operation for hardware and software

- Thermocom detector core used in thermography cameras

- Monitor screen integrated to control panel

Specifications

Pan & Tilt System	
Housing shielding design	Conform to IP66, suitable for harsh environmental; all-weather shielding housing; lightning-proof of 4000V;
Anti-vibration design	The vibration absorbing structure is used, it is specially designed for the application on the top of motors
Environmental temperature range	-40°C to 60°C
Environmental humidity	0-95%
Horizontal turning range	360 degree
Vertical turning range	180 degree
Horizontal turning speed	0-100degree/Second
Vertical turning speed	0-80 degree/Second
Power sourcing	12V and 24 V AC/DC
Controller	Joystick controller
Software	English operation menu; other optional languages could be supported
Cameras and windows	The 80x80x200mm cameras could be installed and Germanium windows of 60mm are used.
Communication Protocol	PELCO/KALATEL/SAMSUNG/DIAMOND, 16 Types are available
Baud Rate (RS485)	2400/4800/9600/19200bps
Dimension (mm)	470 x 322 x 269

Infrared Thermography Camera	
Detectors	VOX_320×240
Imaging size	38um×38um
Wavelength range:	8μm～14μm
Lens focus:,	f = 21mm
f number:	1.2
FOV:	32º×24º
Temperature Range:	-20℃～1200℃
Temperature Measuring accuracy：	±2℃ or ±2%
Temperature resolution:	0.1℃
Video output：	CCIR standard video signal;
Network：	100M
Functions	Shutter Calibration; Auto Calibration; Pseudo color Display; Temperature Measuring; Distance setting Emissivity Setting Auto Focusing
Digital Video specifications	Frame frequency：≥ 1HZ; Resolutions：320×240; Data width：16bit;
Operation temperature range	-20℃～50℃
Storing temperature range：	-25℃～55℃