

State Administration of Coal Mine Safety certified infrared camera for coal mining application

YRH250/600 is an infrared camera specially designed for the coal mining industry. The housing of YRH250/600 is made by reinforced industrial plastic, which strengthens the ex-proof ability of the camera, but keeps it light weight. Internal PCBs have gone through insulation processing. Special ex-proof batteries are provided to make sure the YRH250/600 strictly complies with the requirements for coal mining applications.



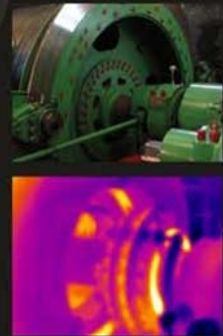
YRH600



YRH250



- Ex-proof certified by National work safety Chongqing mine apparatus testing center
- Certification with SAFETY CERTIFICATE OF APPROVAL FOR COAL MING PRODUCTS (No.20067030)
- Certified by DEKRA EXAM GmbH in Germany (for appointed German distributor only)
- Precise temperature measuring
- Robust design for extreme working condition, IP54 Encapsulation
- Easy to use



can be used with tripod



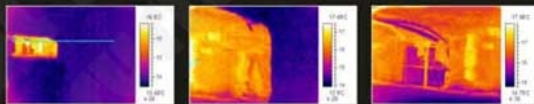
Various observation angle



USB and video output



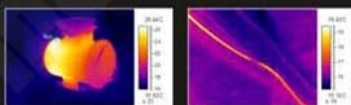
Ex-proof battery



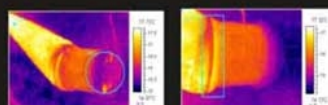
YRH250/600 detect the high temperature area on the wall of coal mines.



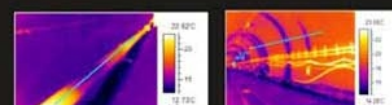
Working electrical devices cause heating. By comparing the thermal images taken by YRH250/600, the potential malfunction of the electrical devices can be found earlier.



By comparing the surrounding wires the YRH250/600 can find overloading wires. Timely measuring will help find fused wires earlier.



YRH250/600 can detect the subtle temperature changes of the ventilation tube to find the crack or the hole.



In coal mines, YRH250/600 can display the thermal images of the wires and tubes. From the thermal images we can find leakages in the mines and tubes (the temperature of the leakage will be lower than the normal temperature).



Type	YRH250	YRH600
Image performance		
FOV/Min.focus distance	38° x 28.5°/0.1m	38° x 28.5°/0.1m
Spatial resolution	4.1 mrad	4.1 mrad
Thermal sensitivity	≤0.08°C@30°C	≤0.08°C@30°C
Detector type	UFPA	UFPA
Resolution	160 x120	160 x120
Spectral range	8-14um	8-14um
Focus	Manual	Manual
Image presentation		
Image mode	IR	IR/CCD/Duo-vision
LCD Display	2.5" TFT screen	2.5" TFT screen
Digital camera	N/A	640 x 480 full color
Viewfinder	N/A	N/A
Video output	NTSC (60Hz) or PAL (50Hz) composite video	NTSC (60Hz) or PAL (50Hz) composite video
Temperature measurement		
Measurement range	-20°C ~ +250°C , up to +1500°C (optional)	0°C ~ +250°C , up to +1500°C (optional)
Accuracy	±2°C, ±2% of readings	±2°C, ±2% of readings
Measurement mode	4 movable spots, auto hot/cold spot, isotherm	9 movable spots, auto hot/cold spot, profile, area box, isotherm
Correction	Emissivity, ambient temperature, distance, relative humidity	Emissivity, ambient temperature, distance, relative humidity
Delta T	N/A	Yes
Alarm	Yes	Yes
Image storage		
Type	CF card 1GB	2GB removable MiniSD card
File format- Thermal	.SAT	.SAT
File format- Visual	N/A	.CCD
Thermal video record	N/A	N/A
Annotation	N/A	Voice via bluetooth(optional)
Battery system		
Working voltage	DC 8V-11V	DC 8V-11V
Battery operating time	2.5 hours	2.5 hours
Environment specification		
Operating temperature range	-20°C to +50°C	-20°C to +50°C
Storage temperature range	-40°C to +70°C	-40°C to +70°C
Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing
Encapsulation	IP54	IP54
Shock (operational)	25G	25G
Vibration (operational)	2G	2G
Physical characteristic		
Weight	Less than 600g	Less than 600g
Size	211 mm ×80mm ×195mm	215 mm ×80mm ×219mm
Tripod mounting	1/4" _20	1/4" _20
Other		
Illuminator	Yes	Yes
Laser pointer	Yes	Yes
USB2.0 transfer realtime thermal data	No	Yes
Bluetooth	No	Optional
Network interface/GPS/Wifi	No	No
Available optional lenses	6.4°, 9°, 28°, 38°	6.4°, 9°, 28°, 38°