

# IRDL708 Series

HIGHEST RESOLUTION AND ACCURACY  
WITH LOW COST



## Industry Temperature Measurement

# IRDL708 Series

Temperature ranges up to 2.000°C.

640x480 uncooled FPA detector.

Infrared and visible image fusion.

amperis

[www.amperis.com](http://www.amperis.com)

 AMPERIS PRODUCTS S.L  
Agricultura,34  
27003, Lugo, Spain

 **Contact**

+T [+34] 982 20 99 20 | F [+34] 982 20 99 11  
[info@amperis.com](mailto:info@amperis.com) | [www.amperis.com](http://www.amperis.com)

IRDL708 Series is newly developed uncooled thermal imaging camera, which features high resolution 640x480 pixels, multi rotated big size touch screen, IR & CCD fusion, 5 mega pixel CCD camera, high brightness LED light, record in H.264 or original data, JPEG format picture back up, sounds & light alarm, text and voice noted, network interface, built in laser, etc.

This model is suitable for a wide range of application such as professional industry inspection and testing, power plant, railway, petrochemical, metallurgy, construction, scientific application, etc.

## IRDL708 – Most Complete Thermal Camera



Left side



Upper view



Right side



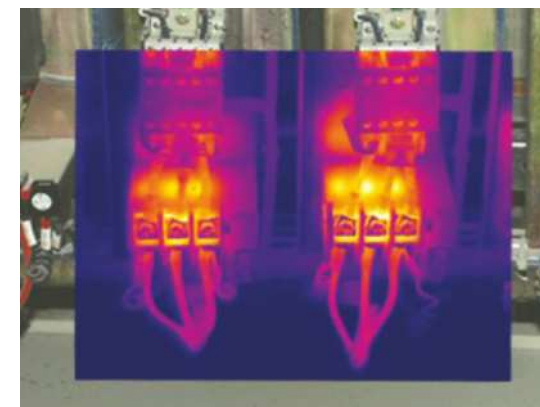
Front view



Infrared image



Infrared image



Infrared and visible image fusion

| Technical parameters IRDL708                                                                |                                                                                                                                                                  |              |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Detector characteristics                                                                    | Detector type                                                                                                                                                    |              |
|                                                                                             | No refrigerada FPA microbolómetro                                                                                                                                |              |
|                                                                                             | Array size/format                                                                                                                                                |              |
|                                                                                             | 640x480                                                                                                                                                          |              |
| Image manage                                                                                | Field of view/min focus distance                                                                                                                                 |              |
|                                                                                             | 24o×18o /0.1m                                                                                                                                                    |              |
|                                                                                             | Spatial resolutions(IFOV)                                                                                                                                        |              |
|                                                                                             | 0.65mrad                                                                                                                                                         |              |
|                                                                                             | Thermal sensitivity                                                                                                                                              |              |
|                                                                                             | ≤0.02°C@30°C                                                                                                                                                     |              |
|                                                                                             | Frame rate                                                                                                                                                       |              |
|                                                                                             | 50/60Hz                                                                                                                                                          |              |
|                                                                                             | Focus                                                                                                                                                            |              |
|                                                                                             | Auto/electrónico                                                                                                                                                 |              |
|                                                                                             | Spectral range                                                                                                                                                   |              |
|                                                                                             | 8~14um                                                                                                                                                           |              |
|                                                                                             | Built-in visible light                                                                                                                                           |              |
|                                                                                             | 5M pixel, CMOS Module, LED light                                                                                                                                 |              |
| Image display                                                                               | Viewfinder                                                                                                                                                       |              |
|                                                                                             | Built-in high-resolution color LCD                                                                                                                               |              |
|                                                                                             | LCD display                                                                                                                                                      |              |
|                                                                                             | High-resolution color LCD, 640×480                                                                                                                               |              |
| Medición                                                                                    | Temperature ranges                                                                                                                                               |              |
|                                                                                             | -40°C~+650°C, optional up to +1200°C or +2000°C                                                                                                                  |              |
|                                                                                             | Accuracy                                                                                                                                                         |              |
|                                                                                             | ±2°C or ±2% of reading, whichever is greater                                                                                                                     |              |
|                                                                                             | Measurement correction                                                                                                                                           |              |
|                                                                                             | Automatic/manual                                                                                                                                                 |              |
|                                                                                             | Measurement mode                                                                                                                                                 |              |
|                                                                                             | Up to 10 movable areas (maximum, minimum and average temperatures). Up to 5 movable lines. Line profile. Isotherms. Temperature difference. Alarm (voice, color) |              |
|                                                                                             | Color palette                                                                                                                                                    |              |
|                                                                                             | 11 palettes changeable (Iron, rainbow, Grey and Grey inverted, etc.)                                                                                             |              |
|                                                                                             | Image adjustment                                                                                                                                                 |              |
|                                                                                             | Auto/manual gain and brightness                                                                                                                                  |              |
|                                                                                             | Setup functions                                                                                                                                                  |              |
|                                                                                             | Date/time, temperature unit, language                                                                                                                            |              |
|                                                                                             | Emissivity correction                                                                                                                                            |              |
|                                                                                             | Variable from 0.01 to 1.0                                                                                                                                        |              |
|                                                                                             | Background temperature correc-<br>tion                                                                                                                           |              |
|                                                                                             | Automatic correction according to user input                                                                                                                     |              |
|                                                                                             | Atmospheric transmission correc-<br>tion                                                                                                                         |              |
|                                                                                             | Automatic correction according to user input object distance, humidity and temperature                                                                           |              |
| Image storage                                                                               | Storage Card                                                                                                                                                     |              |
|                                                                                             | 8G SD (TF) card, Up to 32G                                                                                                                                       |              |
|                                                                                             | Storage mode                                                                                                                                                     |              |
|                                                                                             | Automatic/manual single file saving, IR and Visual image link saving                                                                                             |              |
|                                                                                             | File format-thermal                                                                                                                                              | Single frame |
|                                                                                             |                                                                                                                                                                  | Video        |
|                                                                                             | File format-video                                                                                                                                                | Single frame |
|                                                                                             |                                                                                                                                                                  | Video        |
| Voice annotation                                                                            |                                                                                                                                                                  |              |
| Input via built-in microphone Up to 40 seconds of digital voice per image stored with image |                                                                                                                                                                  |              |
| Text annotation                                                                             |                                                                                                                                                                  |              |
| YES, user define                                                                            |                                                                                                                                                                  |              |
| Laser pointer                                                                               | Laser pointer                                                                                                                                                    |              |
|                                                                                             | Class 2,1mw/635nm(red)                                                                                                                                           |              |

|                          |                        |                                                                     |
|--------------------------|------------------------|---------------------------------------------------------------------|
| Power supply             | Battery type           | Li-Ion, rechargeable                                                |
|                          | Battery operating time | 3 hours continuous operation                                        |
|                          | Charging system        | Intelligent charger or power supply adaptor(optional) online charge |
|                          | Power saving           | YES                                                                 |
|                          | External power         | 12 V DC                                                             |
| Environment              | Operating temperature  | -15 °C - +50 °C                                                     |
|                          | Encapsulation          | IP54                                                                |
|                          | Humidity               | ≤95% non-condensing                                                 |
| Physical characteristics | Weight                 | 1.75 kg                                                             |
|                          | Dimensions             | 250mm×180mm×150mm                                                   |
| Interface                | External DC input      | Yes                                                                 |
|                          | Audio output           | Yes                                                                 |
|                          | Video output           | PAL/NTSC                                                            |
|                          | Audio/Data output      | (Earphone/RS232)                                                    |