# Resumen de cámaras térmicas

### 1.- AMG8833 . Resolución 8 x 8 píxeles

### <https://pygmalion.tech/tutoriales/robotica-basica/tutorial-camara-termica-amg8833/>

* <https://thesolaruniverse.wordpress.com/2022/08/02/a-true-infrared-video-camera-amg8833-sensor-esp32-microcontroller-and-3-2-inch-320240-tft-display/> → mejor resolución ¿?
* <https://hetpro-store.com/TUTORIALES/i2c/> → i2c varios dispositivos

### 2.- MLX9064. Resolución

### <https://www.instructables.com/Infrared-Thermal-Imaging-Camera-With-MLX90640-and-/> → stoppi

* <https://www.youtube.com/watch?v=k6qim96wB4k>

### 3.- Lepton 3.5. Resolución 160 x 120

* <https://www.hackster.io/dan-julio/tcam-mini-an-esp32-based-radiometric-thermal-imaging-camera-096308>

## Shopping list

1. <https://es.aliexpress.com/item/1005001852981269.html?spm=a2g0o.productlist.0.0.32087cc3IWHIHb&algo_pvid=03bd8af7-7558-4acc-a133-f93435ca168c&aem_p4p_detail=20221008035131310172656265080021512283&algo_exp_id=03bd8af7-7558-4acc-a133-f93435ca168c-0&pdp_ext_f=%7B%22sku_id%22%3A%2212000017859949499%22%7D&pdp_npi=2%40dis%21EUR%2133.58%2126.86%21%21%211.4%21%21%402100bb4916652262909843401eead7%2112000017859949499%21sea&curPageLogUid=O2RjyK1QTFYm&ad_pvid=20221008035131310172656265080021512283_1> → Unos 30 €
2. <https://es.aliexpress.com/item/1005003428307460.html?spm=a2g0o.productlist.0.0.32087cc3IWHIHb&algo_pvid=03bd8af7-7558-4acc-a133-f93435ca168c&algo_exp_id=03bd8af7-7558-4acc-a133-f93435ca168c-24&pdp_ext_f=%7B%22sku_id%22%3A%2212000025739483701%22%7D&pdp_npi=2%40dis%21EUR%2158.88%2129.43%21%21%213.73%21%21%402100bb4916652262909843401eead7%2112000025739483701%21sea&curPageLogUid=3kEblEVCWiFK> → Unos 30€
3. Amazon unos 47€ → Essoirst AMG8833 IR 8x8 Módulo de Sensor de cámara térmica Módulo de Sensor de cámara de Imagen térmica infrarroja
4. Bricogeek → <https://tienda.bricogeek.com/adafruit-feather-wings/1035-camara-termica-amg8833-featherwing.html>
5. <https://www.cetronic.es/sqlcommerce/disenos/plantilla1/seccion/producto/DetalleProducto.jsp?idIdioma=&idTienda=93&codProducto=999334118&cPath=1342> → Unos 60

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MLX60940

1. <https://es.aliexpress.com/item/32962087015.html?spm=a2g0o.productlist.0.0.1b774857Fe6mJ9&algo_pvid=90eb2457-cf68-47ae-898e-3dd7ba9c1e8e&aem_p4p_detail=2022100804082011590451498189610022038088&algo_exp_id=90eb2457-cf68-47ae-898e-3dd7ba9c1e8e-0&pdp_ext_f=%7B%22sku_id%22%3A%2212000029962504168%22%7D&pdp_npi=2%40dis%21EUR%2153.93%2139.9%21%21%21%21%21%400b0a0ac216652273008857159e88d0%2112000029962504168%21sea&curPageLogUid=DfjrBI0xNKCg&ad_pvid=2022100804082011590451498189610022038088_1> → entre 39 y 70€
2. <https://es.aliexpress.com/item/32949428715.html?spm=a2g0o.detail.1000060.1.3d374011UEM0No&gps-id=pcDetailBottomMoreThisSeller&scm=1007.13339.291025.0&scm_id=1007.13339.291025.0&scm-url=1007.13339.291025.0&pvid=28d24b64-7f89-4a9d-818c-24e9f6f30985&_t=gps-id%3ApcDetailBottomMoreThisSeller%2Cscm-url%3A1007.13339.291025.0%2Cpvid%3A28d24b64-7f89-4a9d-818c-24e9f6f30985%2Ctpp_buckets%3A668%232846%238107%231934&pdp_ext_f=%7B%22sku_id%22%3A%2212000018039326198%22%2C%22sceneId%22%3A%223339%22%7D&pdp_npi=2%40dis%21EUR%2136.82%2127.25%21%21%21%21%21%40211b5e2016652273088621583ec442%2112000018039326198%21rec&gatewayAdapt=glo2esp> → Muy parecido.
3. Amazon, unos 90€ → <https://www.amazon.es/MLX90640-Thermal-Imaging-Compatible-Raspberry/dp/B097LFCQZ7/ref=sr_1_9?__mk_es_ES=%C3%85M%C3%85%C5%BD%C3%95%C3%91&crid=33V008CARR5Y8&keywords=mlx90640&qid=1665227533&qu=eyJxc2MiOiIzLjIzIiwicXNhIjoiMS41MCIsInFzcCI6IjAuMDAifQ%3D%3D&sprefix=mlx90640%2Caps%2C124&sr=8-9>
4. <https://www.mouser.es/c/sensors/temperature-sensors/board-mount-temperature-sensors/?q=MLX90640> → Unos 50€ pero sin placa
5. Unos 73€ → <https://www.mouser.es/ProductDetail/Pimoroni/PIM366?qs=lc2O%252BfHJPVbvcWNSB8Ff5Q%3D%3D>
6. <https://www.digikey.es/es/product-highlight/p/pimoroni/mlx90640-thermal-camera-breakout>