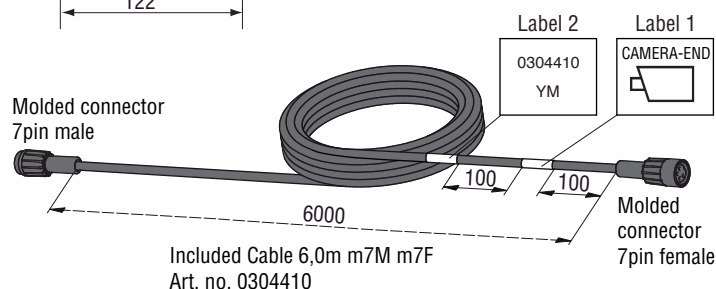
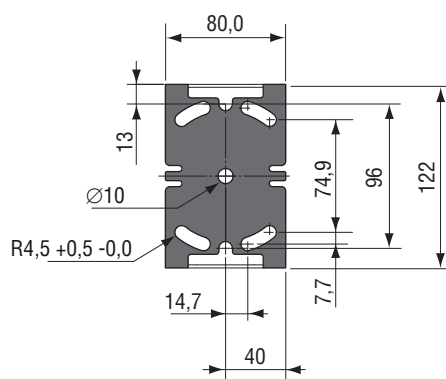
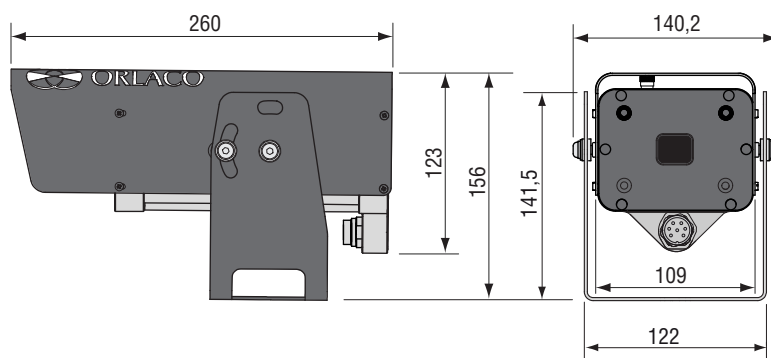


Product Data



Dimensions



Units in mm

TECHNICAL DATA

Camera TIC 320 9Hz connector type

When it is a military application you need an export license for this product.

Article number 0103732 Camera TIC 9Hz connector

Special Features

Field switchable between NTSC and PAL. DDE (second generation Digital Detail Enhancement). (SSO) Smart Scene Optimization. (ACE) Active Contrast Enhancement. FFC Duration < 0.5sec (Flat Field Correction).

Sensor

Sensor Uncooled LWIR Thermal Imager 336 x 256 VOx Microbolometer.
Pixel size 25 micron.
Frame Rates 30/60 Hz (NTSC); 25/50 Hz (PAL).
Sensitivity <50 mk f/1,0.
Scene Range High Gain -40°C to +160°C. Low Gain -40°C to +550°C.
Digital zoom 2x & 4x.
Video NTSC/PAL, field switchable.
Lens WFOV (Wide Field Of View), 19mm (f1.24) 24° x18°.
Color 15 Color Palettes (LUTs).

Electrical

Power input 12..30V/DC (24V/Dc = preferred voltage)
Power consumption Heating off: 3,5W @ 24V/Dc, heating on: 7,1W @ 24V/Dc.
Heater 2.4W, Puls Width Modulated, activated from <+15°C.
Transient protection Camera may be powered directly from 12v or 24v battery without additional electrical protection since camera has an integrated circuit that protects the camera against over- and undervoltage, spikes, ripples and loaddumps.
Inrush current With and without heating: 0,7A at 24V, t=2ms.
Electrical Protection >33V..<80V overvoltageprotection, <12V undervoltageprotection, protected against loaddumps, spikes and surges, reverse polarity on all wiring.
Power Cable Included Art. no 0304410 Cable 6,0m m7M m7F.
Communication RS232, High Speed Camera Communication with Orlaco monitor.
Presets 128 presets Visca and 255 presets Pelco-D.

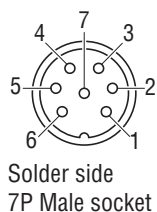
Mechanical

Construction Anodized aluminium housing corrosion proof according to MIL-A-8625E (Acetic Acid Salt Spray Test);
Operating temperature Range -40°C to +80°C.
Temperature shock (5 degree per min).
Vibration (4,3gs three axis, 8hrs each).
Shock (200g shock pulse w/ 11msec saw tooth).
Bracket Standard bracket suitable for mounting overhead and horizontally.
Ingress protection IP68 according to IEC 60529, Dust tight and protected against the effects of immersion in water up to 10m for 30 minutes and IP69K according to DIN 40050-9, camera can withstand a high pressure cleaning with water: 14-16L/min 80°C and 100 Bars flow. Drynitrogen filled, 1,4 Bar overpressure.
Weight 2,6 Kg.

Certification

Approvals EMC certified FCC/CE Class B. ROHS, REACH and WEEE Compliant.
Green Passport All materials are compliant to Green Passport requirements according IMO resolution MEPC.197(62) as adopted on 15 July 2011 (Maritime sector:International Maritime Organization concerning the functions of the Marine Environment Protection Committee)

Serial commands See Orlaco Visca protocol manual; **IM0973300**.
Installation See Installation Manual; **IM0973120**.



Electrical connections.

1 = Coax core	Video
2 = Coax shielding	Video GND
3 = Red	Camera power, 12...30V/DC
4 = Black	Camera 0V
5 = Yellow	Serial TX
6 = Orange	Serial RX
7 = Grey	N.C.
Shielding	GND

All data subject to change without notice. All dimensions are for commercial purpose only.
 The camera/display systems from Orlaco comply with the latest CE, ADR, EMC and mirror-directive regulations, where applicable.
 All products are manufactured in accordance with the ISO 9001 quality management system, ISO/TS 16949 quality automotive, ISO 14001 environmental management systems and all Ex products with the IECEx scheme and ATEX directives, where applicable.

