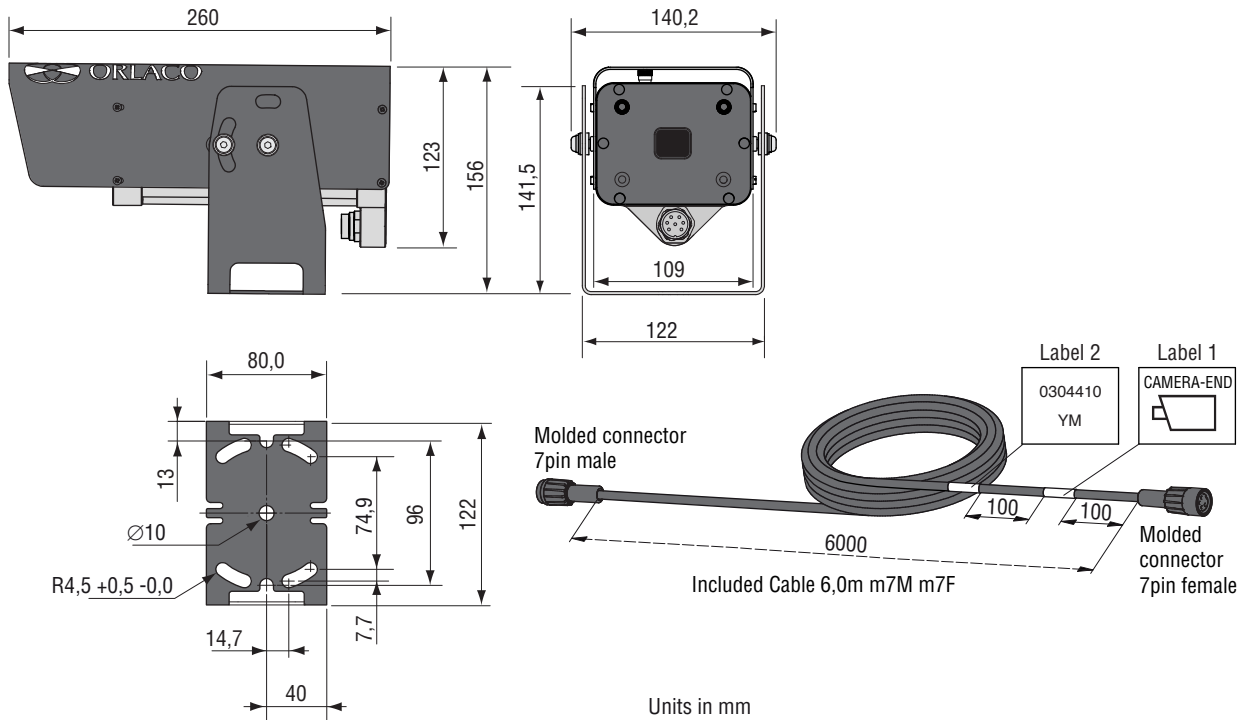


Product Data



Dimensions



TECHNICAL DATA

Camera TIC 320 9Hz connector type

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

Article number 311624 Camera TIC 9Hz connector

Description

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

Uncooled LWIR Thermal Imager 336 x 256 VOx Microbolometer.

Sensor

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

12..30V/DC (24V/Dc = preferred voltage)

Power input

Heating off: 3,5W @ 24V/Dc, heating on: 7,1W @ 24V/Dc.

Power consumption

2.4W, Puls Width Modulated, activated from <+15°C.

Heater

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.

Transient protection

With and without heating: 0,7A at 24V, t=2ms.

Inrush current

>33V..<80V overvoltageprotection, <12V undervoltageprotection, protected against loaddumps, spikes and surges, reverse polarity on all wiring.

Electrical Protection

Included Art. no 0304410 Cable 6,0m m7M m7F.

Power Cable

RS232, High Speed Camera Communication with Orlaco monitor.

Communication

128 presets Visca and 255 presets Pelco-D.

Presets

Mechanical

Anodized aluminium housing corrosion proof according to MIL-A-8625E (Acetic Acid Salt Spray Test);

Construction

Range -40°C to +80°C.

Operating temperature

(5 degree per min).

Temperature shock

(4,3gs three axis, 8hrs each).

Vibration

(200g shock pulse w/ 11msec saw tooth).

Shock

Standard bracket suitable for mounting overhead and horizontally.

Bracket

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.

Ingress protection

2,6 Kg.

Weight

Certification

EMC certified FCC/CE Class B. ROHS, REACH and WEEE Compliant.

Approvals

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)

Green Passport

See Orlaco Visca protocol manual; **IM0973300**.

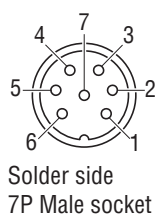
Serial commands

See Installation Manual; **IM0973120**.

Installation

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.

