IVS® machine vision cameras offer a new level of integrated inspection solution. These self-contained advanced camera heads provide industrial grade inspection capability. Available in a wide range of models to cover all vision application areas. Now you can run the same interface across your entire factory, from single vision inspection stations through to multi-head inspection machines offering complete scalability.

**Powerful**
State-of-the-art vision solutions
Quick and easy to set-up and deploy
Reliable part inspection, identification and control

**Rugged**
Protection class IP67 and rugged metal housings available
Designed for modern factory integration and control

**Scalable**
Uses standard IVS® vision software interfaces allowing all vision systems in your factory to have one standard.
Can be scaled to multi-camera solutions

**Comprehensive Communication with Factory Information Systems**
Our vision systems are designed to communicate with all PLCs, master controllers and proprietary factory controls out of the box allowing rapid integration and easy commissioning on the production floor.

IVS vision systems utilise state-of-the-art inspection algorithms combined with quick and easy set-up. Designed with maintenance and on-going service in mind, IVS cameras provide industrial strength automated inspection for all industries.
### Comprehensive Inspection Tools

<table>
<thead>
<tr>
<th><strong>Measurement Tools</strong></th>
<th><strong>Code Reading Tools</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Gauge and verify tolerances on sub-assemblies, parts and products.</td>
<td>• Read direct part marked 2D and 1D codes.</td>
</tr>
<tr>
<td>• Check dimensional accuracy on components.</td>
<td>• Verify codes to industry standards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Robot Control Tools</strong></th>
<th><strong>Print Quality Tools</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Locate parts and assemblies for inspection.</td>
<td>• Confirm print quality and missing print.</td>
</tr>
<tr>
<td>• Precisely identify part positions for robot and pick &amp; place.</td>
<td>• Find scratches, errors and poor printing effect.</td>
</tr>
</tbody>
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<thead>
<tr>
<th><strong>Presence Verification Tools</strong></th>
<th><strong>Pattern Recognition Tools</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Verify the correct assembly of parts.</td>
<td>• Powerful location and pattern recognition.</td>
</tr>
<tr>
<td>• Confirm parts have been built to manifest.</td>
<td>• Contour based mapping to cope with changes in rotation, scale and light.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th><strong>OCR/OCV Tools</strong></th>
<th><strong>Surface Inspection Tools</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Read and verify date, lot and part codes.</td>
<td>• Identify scratches, marks and imperfections.</td>
</tr>
<tr>
<td>• Verify character strings and text.</td>
<td>• Look for indents and inclusions on a variety of materials.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Colour Tools</strong></th>
<th><strong>Pre-Processing Tools</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Identify, verify and inspect products based on colour.</td>
<td>• A complete array of comprehensive pre-processing and image filtering.</td>
</tr>
<tr>
<td>• Check and match components based on RGB levels.</td>
<td>• Calibrate to real-world dimensions for high accuracy.</td>
</tr>
</tbody>
</table>
Our vision system is a modular vision solution allowing you to integrate automated inspection and control in all areas of your production process. From single camera 'smart' vision systems to multi-camera highly complex solutions, all based on the one modular system which is simple to deploy and designed for quick shop floor integration.

Inspection Machines

In addition to the vision sensors we offer a full range of complete inspection systems and machines for quality control. Use our expertise to help specify all aspects of our vision system requirements, our experts become an extension of your in-house engineering team allowing you to concentrate what you do best, manufacturing for your customer.

Use our solutions to help drive your quality, increase yield and enable automation.

Our systems are available in a wide range of form factors, resolutions and speeds allowing us to match the camera solution to your particular requirements. Full process integration with all major PLC manufacturers, robots and databases makes process control of the vision system straightforward and easy to integrate.

About Us

Industrial Vision Systems Ltd (IVS) is a major supplier of machine vision solutions whose name is synonymous with innovative image processing systems. Our machine vision systems are some of the most innovative and advanced on the market today. They are used all over the world in automated production processes for quality control, inspection, guidance, identification, measurement, tracking and counting - in many diverse industries.

Thanks to our unparalleled expertise and experience in vision technology for automated quality control, we hold an enviable position at the forefront of machine vision development.

Quality

All cameras are provided with full CE marking and an EC Declaration of Conformity to the latest European Directives and the relevant BS, EN, ISO and IEC Standards.
Dimensions

About IVS

Founded in 2000, IVS is now one of Europe’s leading specialists in inspection machines and artificial intelligence vision products – supplying customers all around the world and building an unrivalled reputation for innovation, quality and precision in machine vision systems for inspection, guidance and identification.

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www.industrialvision.co.uk

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ANGULAR TOLERANCES UNLESS STATED OTHERWISE TO ISO 2768-m.

LINEAR TOLERANCES UNLESS STATED OTHERWISE TO ISO 2768-m.

SURFACE FINISH

MATERIAL

4x M2x0.4 5

2x M2x0.4

2x M2x0.4 5

4x M3x0.5 3

4x M3x0.5 3

IVS VSC 0817

REV. DESCRIPTION DATE BY

A FIRST ISSUE 21/08/2017 GW

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IVS MDS-CAM-IVS-NCGi

IVS MDS-CAM-IVS-NCGi

8 INPUT POWER SUPPLY (VCC) 12-24 V DC

7 TRIGGER INPUT WITH OPTOCOUPLER (+)

6 GENERAL PURPOSE I/O (GPIO) 2

5 FLASH OUTPUT WITH OPTOCOUPLER (+)

4 TRIGGER INPUT WITH OPTOCOUPLER (-)

3 GENERAL PURPOSE I/O (GPIO) 1

2 FLASH OUTPUT WITH OPTOCOUPLER (-)

1 GROUND (GND)

IVS-NCGi-2440-23M

IVS-NCGi-2440-23C

IVS-NCGi-1600-52C

IVS-NCGi-1600-52M

IVS-NCGi-1300-60C

IVS-NCGi-1300-60M

IVS-NCGi-1920-43C

IVS-NCGi-1920-43M

FOR THE FOLLOWING RANGES OF CAMERA:

THIS DRAWING DETAILS THE MECHANICAL DIMENSIONS

NOTES: