

A PERFECT ALLIANCE.



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# ADVANCED CONNECTOR SOLUTIONS VISION SYSTEMS

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High definition connector solutions

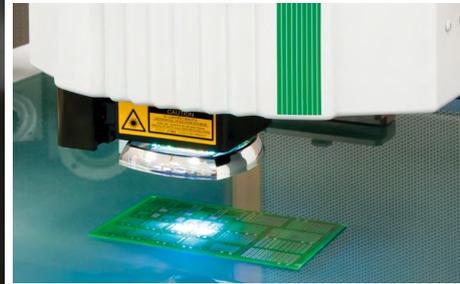
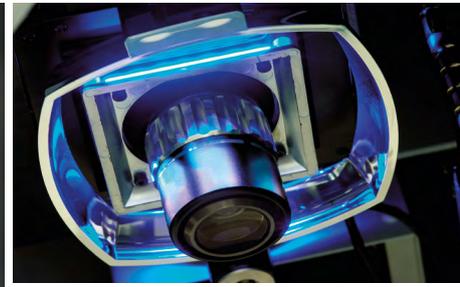


# ADVANCED CONNECTOR SOLUTIONS VISION SYSTEMS

ODU connector solutions respond to an increased market demand for embedded vision, an increased use in robotics and a rising demand for non-industrial applications such as: medical imagery, security and surveillance, intelligent transportation systems and logistics.

The Advanced Connectors respond to all of the market requirements for vision systems:

- + Lightweight
- + Small & compact
- + Watertight protection
- + High-speed data transmission
- + Easy to use
- + Robust design
- + Cost effective cable solutions
- + Standard design for low cost integration



ODU Advanced Connector Solutions are ideal for vision systems used in market applications such as:

## NON INDUSTRIAL VISION

- Broadcasting
- Biomedical/medical diagnostics
- Biometrics
- Defense/aerospace
- Environment/agriculture
- Microscopy
- Scientific/industrial research
- Surveillance/transportation

## FACTORY AUTOMATION

- Automotive manufacturing
- Consumer goods
- Energy (oil, gas, solar, wind)
- Food and beverage
- General manufacturing
- Packaging
- Pharmaceutical/medical
- Robotics
- Semiconductors/electronics
- Turn-key vision systems
- Web inspection

## CUSTOMER BENEFITS

- Fast sample availability
- Rapid prototyping & product development
- Competitive lead time
- Local one-to-one engineering support
- Cross-connector capability
- German engineered for over 75 years
- Cable assembly integrated solutions
- Factory direct

## CERTIFICATIONS

- DIN EN ISO 9001
- IATF 16949
- DIN EN ISO 14001
- ISO 13485
- Wide range of UL, CSA, VG and DVA licenses
- UL certified cable assembly

# ADVANCED CONNECTOR SOLUTIONS FOR VISION SYSTEMS

## HARSH ENVIRONMENTS

### ODU AMC® HIGH-DENSITY



#### KEY FEATURES

- Break-Away function for maximum safety
- High speed data transfer USB® 3.1 Gen 1, USB® 2.0 and HDMI®<sup>1</sup>
- Operating temperature range from -51 °C to +125 °C
- IP68 (up to 20 m submersion)
- Up to 5,000 mating cycles durability
- Light, compact and easy to use
- Salt spray resistance
- Overmolded
- Turn-key solutions

### HIGH-SPEED DATA TRANSMISSION

Size 00  
USB® 2.0<sup>1</sup>  
480 Mbit/s



← USB® 2.0<sup>1</sup> →



Size 0  
USB® 3.1 Gen1<sup>1</sup>  
5 Gbit/s



← USB® 3.1 Gen1<sup>1</sup> →



### ODU AMC®



#### KEY FEATURES

- Push-Pull locking or Break-Away function
- Watertight protection class IP68 and IP69
- Various standard inserts available
- Lightweight, small and easy handling
- System solution – cable assembly and overmolding

## NON-HARSH ENVIRONMENTS

### ODU MINI-SNAP®



#### KEY FEATURES

- Push-Pull locking
- IP50 and IP68
- Up to 5,000 mating cycles durability
- Easy to use
- Small & compact
- Safe & secure locking mechanism
- Various housing & contact inserts
- Field termination
- Crimp contact configurations available

<sup>1</sup>These ODU specific connectors can transmit common data transmission protocols such as USB® 3.1 Gen1, USB® 2.0 and HDMI®, but they are not USB®- or HDMI®-standard connectors.



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## ODU GROUP WORLDWIDE



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#### Further information and specialized representatives can be found at:

[www.odu-connectors.com/contact](http://www.odu-connectors.com/contact)

### PRODUCTION AND LOGISTICS SITES

**Germany** Otto Dunkel GmbH  
**China** ODU (Shanghai) Connectors Manufacturing Co.Ltd  
**Mexico** ODU Mexico Manufacturing S.R.L. de C.V.  
**Romania** ODU Romania Manufacturing S.R.L.  
**USA** ODU-USA, Inc.  
ODU North American Logistics



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