The xiC is an extremely diversified and highly modular camera family designed for the Sony Pregius™ sensor series. It offers multiple choices of combining sensors and interfaces. Even though it is a board stack, for system integrators it has all the benefits of a single board design and is incredibly small.

The small xiX cameras are based on the same board-level concept and stream images to the host computer via 2 lanes on a PCI Express Gen2 bus. Together with minimal latencies and CPU load, the cameras are a perfect fit for embedded vision and multi-camera applications. Thanks to flat flex cabling, the board-level and semi-housed variants allow integration in tight spaces and close proximity between cameras.

**CONNECTORS / BOARD-LEVEL CAMERAS**

**xC**
- Standard Type-C: Board-level version of standard housed camera with Type-C connector, perpendicular to board surface
- Standard Micro-B: Board-level version of standard housed camera with Micro-B connector, perpendicular to board surface
- Flex-Line boards: Connector for flat flex cables (FFC) including USB 3.1 Gen1 signals and GPIOs. Flexline connector parallel to board or perpendicular to board

**xX**
- PCIe Gen2 x2, C/CS-mount: Connector for flat flex cables (FFC), with data lines, AUX power and digital IOs. 2 PCIe lanes for up to 10 Gbit/s bandwidth.

**ADDITIONAL CONNECTION**

**xIT**
- Thunderbolt 1 interface for direct bidirectional access with up to 20 Gbit/s
- Dual powered: bus powered or AUX powered

**SENSORS & MODELS**

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**NOTES:**
- ¹ M: monochrome, C: Color, N: NIR, M: monochrome NIR-extended
- ² Full resolution, [bits]
- ³ HDR-mode available
- ⁴ 8-bit

**ACCESSORIES**

- Universal tripod mounting bracket
- PCI express adapter: 2x USB ports 4x USB ports
- Breakout Box USB micro-B
- USB cable, passive length: 1, 3, 5 m
- USB cable, passive, angled micro-B connector length: 3 m
- USB cable, active length: 10, 15, 20 m
- Sync cable, digital I/O length: 5 m

**HIGHLIGHTS**

- USB 3.1 Gen1
- Lowest power consumption. All models are bus powered
- Smallest footprint in class
- Very light
- USB3 Vision compliant

**MODULARITY / VARIANTS**

- Various connection technologies available
  - xC: Type-C - Micro B - Flat ribbon
  - xX: PCIe Gen2 x2 flat ribbon
  - Additional: Thunderbolt Gen 1 (xT series)
- All variants are available as housed cameras and board level cameras
- A modular board-level design makes it ideal for system integration in small mobile applications and robotics
- The board stack is incredibly small with all the benefits of a single board design
- Board level cameras are separable for remote operation
- Designed to use with embedded system platforms
- More than 30 popular machine vision libraries supported, e.g. MatLAB, LabView, Halcon, OpenCV, ...
- Compatible with Windows, LINUX, MacOS
- Conforms to various Standards: USB3-Vision, GenIcam / GenTL

**BIG IN MODULARITY**