

## USB 2.0



Small, handy and cost-effective - these are the main characteristics of USB 2.0 industrial cameras. USB cameras have become integral parts in the area of medicine and microscopy.

We offer a wide range of different variants. Whether with or without housing, as board-level or single-board, with or without digital I/Os - we offer the suitable camera for your application.

### A proposito di USB 2.0

The consumer interface USB 2.0 was introduced in the year 2000 and there is no image processing standard. For this reason every manufacturer has its own proprietary driver. However, we offer a unified driver for all of our products: [mvIMPACT Acquire SDK](#).

The USB 2.0 interface supports a **gross bandwidth of 480 MBit/s**. With a **max. cable length of 3.5 m (using consumer cables)** the interface is suitable for

1. cost-critical applications and
2. applications with short a distance between camera and processing unit.

|                                   | USB 2.0 | USB 3.2 Gen 1              | Gigabit Ethernet | Dual Gigabit Ethernet |
|-----------------------------------|---------|----------------------------|------------------|-----------------------|
| Larghezza di banda lorda [MBit/s] | 480     | 5000                       | 1000             | 2000                  |
| Larghezza di banda netta [MB/s]   | 30      | 300 + x                    | 120              | 240                   |
| Lunghezza massima del cavo [m]    | 3,5     | 8<br>(100 con cavi attivi) | 100              | 100                   |

|                               |      |                          |      |      |
|-------------------------------|------|--------------------------|------|------|
| Anno di lancio<br>interfaccia | 2000 | in fibra ottica)<br>2010 | 2004 | 2008 |
| Anno di lancio<br>standard    | -    | 2013                     | 2006 | 2012 |