














# DARTFISH 10 LIVE REQUIREMENTS

|                                   | CAMERAS  |  | CONVERTERS   |   |   | LEGACY   |
|-----------------------------------|--|--|--|---|---|--|
|                                   | <br><b>Webcams:</b><br>Logitech C922,<br>Microsoft<br>Lifecam | <br><b>IP cameras</b><br>(ONVIF & RTSP) | <br><b>Blackmagic H264</b><br><b>Pro Recorder</b> | <br><b>AVerMedia Live</b><br><b>Gamer Portable 2</b><br><b>Plus</b> | <br><b>Blankom SDE-265</b> | <b>Replaced by</b><br><b>AVerMedia LGP2</b><br><b>Plus in U16</b><br><br><b>AVerMedia Live</b><br><b>Gamer Portable</b> |
| <b>Connections</b>                | USB 2.0  | Ethernet RJ45  | <u>Input:</u> HDMI/SDI<br><u>Output to PC:</u><br>USB 2.0  | <u>Input:</u> HDMI<br><u>Output to PC:</u><br>USB 2.0   | <u>Input:</u> SDI<br><u>Output to PC:</u><br>USB 2.0  | <u>Input:</u> HDMI<br><u>Output to PC:</u><br>USB 2.0  |
| <b>Multi-camera input</b>         | Up to 2  | Up to 4  | Up to 2  | 1   | Up to 4   | 1  |
| <b>Stream profile<sup>1</sup></b> | MJPEG  | H264   | H264   | MJPEG/H264  | H264  | MJPEG/H264   |
| <b>Max. Cable length</b>          | 1.5 m  | 100 m  | HDMI: 5m<br>SDI: 100m<br>USB: 5m   | HDMI: 5m<br>USB: 5m   | HDMI: 5m<br>USB: 5m   | HDMI: 5m<br>USB: 5m  |
| <b>Shutter speed</b>              | Basic control  | Up to 1/143000   | Defined by video source  | Defined by video source   | Defined by video source   | Defined by video source  |
| <b>Frame rate</b>                 | Max 60 fps   | Max 120 fps  | Max 60 fps<br>Defined by video source  | Max 60 fps<br>Defined by video source   | Max 60 fps<br>Defined by video source   | Defined by video source<br>Max 60 fps  |
| <b>Resolution</b>                 | Max 1080p  | Max 2160p  | Max 1080p<br>Defined by video source   | Max 1080p<br>Defined by video source  | Max 1080p<br>Defined by video source  | Max 1080p<br>Defined by video source   |
| <b>Installation procedure</b>     | Minimal  | Advanced   | Minimal  | Minimal   | Advanced  | Minimal  |

<sup>1</sup> Stream profiles other than H264 are converted automatically to H264 during the recording



|  | Budget in US\$<br>(indicative price) | Pros  | Cons   | Use cases and notes  |
|--|--------------------------------------|---|--|--|
| <br><b>HD webcams:</b><br><b>Logitech C922</b><br><b>MS Lifecam Studio</b> | 50 - 100                             | + Low price<br>+ Good video quality<br>+ USB 2 connection (no additional power required)<br>+ Attaches to a tripod                      | - Limited digital Zoom only<br>- MS Lifecam requires manual driver selection in Windows 8<br>- 30 frames per second too low for some | - Bike fitting<br>- Gait analysis<br>- Other static camera use   |
| <br><b>ONVIF IP camera</b>   | 500 – 3,000                          | + Video quality<br>+ Compression<br>+ Outdoor usage<br>+ Fixed placement  | - Installation<br>- Configuration<br>- Flexibility with manual focus<br>- Not mobile   | - Dartfish Live Collaboration<br>- Infrastructure (schools, gyms arenas) with multiple camera usage<br>- Swing analysis<br>- Gait analysis |
| <br><b>AVerMedia Live Gamer Portable 2 Plus</b>                            | 200 + camera                         | + Capture HD stream from any camcorder<br>+ Encodes and compresses video<br>+ Good price for HD converter<br>+ No power supply required | - Multi camera recording not possible  | Lower cost than Blackmagic but loses the professional configurability  |
| <br><b>Blackmagic H.264 Pro Recorder</b>                                 | 450<br>+ camera                      | + Video quality<br>+ Compression<br>+ Flexibility of input choice (HDMI, Composite in)<br>+ SDI / HD-SDI Input for TV-Signal            | - Latency of displaying image on screen<br>- Additional power cable is required<br>- Cost  | - Professional quality solution which allows configuration of quality and other inputs such as SDI   |
| <br><b>Blankom SDE-265</b>   | 500 + camera                         | + Video quality<br>+ Compression<br>+ SDI / HD SDI input for TV signal<br>+ Available for multi-camera                                  | - Installation<br>- Configuration  | - Dartfish Live Collaboration<br>- Stadium environment with SDI feed provided  |