

		CAMERAS			CONVERTERS				
		нр		DARTFISH 7 ONLY (or newer)		DARTFISH 7 ONLY (or newer)		7	
		DV/HDV	HD Webcams: Logitech C920 MS Lifecam Studio	Onvif IP camera	Basler High Speed camera	Blackmagic H.264 Pro Recorder	DV/ HDV Canopus converter	USB converter	
	Connection	FireWire	USB 2.0	Ethernet (RJ45)	Ethernet (RJ45), FireWire	Camera to converter : Composite /HDMI / SDI Converter to PC : USB 2.0	Camera to converter : Composite/ HDMI Converter to PC : FireWire	Camera to converter : Composite Converter to PC: USB 2.0	
	Max. cable length	20 m	1.5 m (extendable)	100 m	100 m	Composite: 30 m HDMI: 5 m SDI: 100 m USB: 5 m	Composite: 30 m HDMI: 5 m Firewire: 20 m	Composite: 30 m USB: 5 m	
	Dual camera input	✓	\checkmark	✓	✓	✓	✓	Not recommended	
	Video stream	DV/HDV	MJPG	H.264	BYGB	H.264	DV/HDV	RCB/YUV	
	Zoom (optical/digital)	√/√	Limited digital zoom	√/√	√/√				
È	Focus	Manual	Automatic	Manual	Manual	Image settings defined by video source			
IMAGE QUALITY	Shutter speed	Max 1/10000	Basic control	Max 1/30000	Max 1/10000000				
IMA	Frame rate	Max 60 fps	Max 30 fps	Max 60 fps	Max 60 fps				
	Resolution	480i/1080i	Max 1080p	Max 1080p	Max 1080p				
	Installation procedure	Plug & Play	Minimal procedure	Advanced procedure	Advanced procedure	Minimal procedure	Plug & Play	Plug & Play	
	System requirements	Recommended	Minimum	Minimum	Recommended	Minimum	Recommended	Recommended	
DARTFISH LIVE TAGGING	Live encoding 1	√/√	✓	✓	n/a	✓	√/√	✓	
	Pause recording 2	√/ x	×	×	n/a	*	√/ x	×	
TFISH LI	Time shifted recording 3	√/√	×	✓	n/a	✓	√/√	×	
DAR	Publish event clips 4	√/√	×	✓	n/a	✓	√/√	×	

¹ The Video Recorder and Tag Live tools can encode video while recording. Dartfish.tv users can save a lot of time by using their channel's encoding profile when recording.

² Pause recording lets you exclude parts of the game from the recording without creating multiple video files.

³ Time shifted recording allows you to review earlier parts of the recording while continuing to record.

Use Publish Event clips to create video files from events while continuing to record



	Budget in US\$ (indicative price)	Pros	Cons	Use cases
HD webcams: Logitech C920 MS Lifecam Studio	50 - 100	 + Price + Video quality + USB 2 connection (no additional power required) + Attaches to any tripod 	 Limited digital Zoom only MS Lifecam requires driver selection manually in Windows 8 	 Bike fitting Gait analysis Other static camera use
DV / HDV camera	250 – 1'000	 + Versatility + Video quality (HDV) + Fire wire direct connection + Manual focus / zoom 	 Availability Needs computer with Firewire input or express card slot 	 Swing analysis (Golf, Tennis) General video analysis
Onvif IP camera	500 – 3'000	+ Video quality+ Compression+ Outdoor usage+ Fixed placement	 Installation Configuration Flexibility with manual focus Not mobile 	 Infrastructure projects (schools, gyms arenas) with multiple camera usage Swing analysis (Golf, Tennis) Bike fitting Gait analysis
Basler high speed camera	1'000 – 3'000	+ Shutter speed+ Frame rate+ Video quality	 Installation Configuration Flexibility with manual focus Heavy video stream (requires high end PC / Laptop 	 Swing analysis (Golf, Tennis) Bike fitting Gait analysis Biomechanics
USB converter	70 – 150 + Camera	 Enable use of any camcorder No additional power required Capture video from any analog source 	 Uncompressed video stream Video quality (SD resolution) 	
Firewire converter	200 - 600 + Camera	 Enable use of any camcorder Professional quality converters Can be used to capture from other devices (TV, DVD players, etc.) 	 Availability of fire wire input on Laptops Additional power cable may be required 	
Blackmagic H.264 Pro Recorder	450 + Camera	 Video quality Compression Flexibility of camcorder choice (HDMI, Composite in) SDI / HD-SDI Input for TV-Signal 	 Latency of displaying image on screen Additional power cable is required 	