



Summary Technical Specification

<p>Console</p>	<ul style="list-style-type: none"> • Fully sealed unit waterproof to 100 m. • Polycarbonate enclosure, reinforced with nickel impregnated carbon fibre. • Dimensions – approximately 120 mm x 90 mm x 31 mm. • Weight approximately 300 g. • Integral LCD display – 2.4” transmissive with backlight. • Two high grade connectors for camera and auxiliary input/output. • Solid state electronics – no moving parts.
<p>Camera</p>	<ul style="list-style-type: none"> • Fully sealed unit, waterproof to 100 m • Anodised aluminium enclosure (also available in plastic body-worn variants). • Dimensions of cylindrical section approximately 82 mm x 25 mm. • Weight approximately 55 g. • Low light capability, 2.0 MPixel CMOS, 1/3” format. • F3.2, 52° horizontal FOV, 60° horizontal FOV, focal length 600 mm to infinity. • Solid state electronics – no moving parts. • Mechanically attached to various mountings.
<p>Microphone (where provided - optional)</p>	<ul style="list-style-type: none"> • Waterproof to 15 m. • Sensitivity 30 dBA SPL at 1 kHz, 16 kHz sampling. • Integrated into camera cable, or into camera in body-worn variant available for specialist users
<p>Cables and Connectors</p>	<ul style="list-style-type: none"> • Shielded cables throughout. • High grade connectors, waterproof to 100 m
<p>Environmental Tests</p>	<ul style="list-style-type: none"> • Low operating temperature -20 °C (MIL-STD-810F method 502.4) • High operating temperature +70 °C (MIL-STD-810F method 501.4) • Humidity – MIL-STD-810F method 507.4. • Shock – MIL-STD-810F Method 516.5. • Vibration – MIL-STD-810F Method 514.5. • Immersion – 100 m deep water, mine, and pressure chamber.
<p>Signature Management</p>	<ul style="list-style-type: none"> • Designed to MIL-STD-461. • CE marked. • Shielded housing and cables. • Low power minimises emissions
<p>Video Image Characteristics</p>	<ul style="list-style-type: none"> • VGA 640 x 480 at up to 25 fps and 5 Mbps bit rate. • MPEG4 encoding. • Recording capacity (scene dependent): <ul style="list-style-type: none"> Highest bit rate, rapid movement scene: up to 4 hours Normal bit rate, rapid movement scene: up to 8 hours Normal bit rate, average movement scene: up to 12 hours Low bit rate, average movement scene: up to 16 hours
<p>Still Image Characteristics</p>	<ul style="list-style-type: none"> • High quality 2MPixel resolution. • Approx 8,000 image capacity at highest resolution. • JPEG encoding.

Audio Characteristics	<ul style="list-style-type: none"> • Primary input via cable-mounted microphone, mono. • Line-in input on console connector – 1 V rms, 0 dB, stereo. • AAC stereo within MPEG4 video data. • MP3 for stereo music playback via headphones.
Connectivity	<ul style="list-style-type: none"> • File transfer to PC via USB2. • File transfer to other external systems via USB2 and RS232 (Ethernet future development).
Playback on External Device	<ul style="list-style-type: none"> • Uses optional trifurcated cable. • Images can be viewed on any TV or monitor with Composite or S-Video inputs at 25 fps PAL or 30 fps NTSC.
Power	<ul style="list-style-type: none"> • 1.8 Ahr Lithium-ion integral power source. • Rechargeable from USB power sources. • Battery life (dependent upon usage): <ul style="list-style-type: none"> • Continuous recording of highest quality video: up to 6 hours. • Replay of video on console, no camera: up to 9 hours. • Play MP3 music, no camera: up to 10 hours. • Battery life can be extended a further 16 hours by use of an external power pack.
Operator Functions	<ul style="list-style-type: none"> • Viewfinder mode to assist camera set-up. • Record and replay video/still images. • Play music files. • Digital zoom (Normal video, and Stills mode only). • Automatic Exposure Lock (AE-L). • Sequential still frames capture – configurable frame count and time interval. • Video/still preview pane to aid image identification. • Pan and zoom recorded still images. • Video/still metering options – whole-scene, bottom half-scene, spot. • Video/stills presets – day, dusk, night, manual where manual allows control over: white balance, exposure compensation, contrast, saturation, black fade. • White balance – auto, day, dive, tungsten, fluorescent, horizon. • Video quality presets – optimises resolution, frame rate and bit rate. • Stills resolution selection. • Replay transformations: flip, rotate, fast-forward/rewind, pause. • Playlist feature when playing video, stills and music. • User defined time and date. • Screensaver. • Two keylock modes.
Software Updates	<ul style="list-style-type: none"> • Software updates can be downloaded from website and installed by user.