



Summary VEEcam Technical Specification

Console	<ul style="list-style-type: none"> Fully sealed unit waterproof to 100m Polycarbonate enclosure, reinforced with nickel impregnated carbon fibre Dimensions – approx 120mm x 90mm x 31mm Weight approx – 300g Integral LCD display – 2.4" transmissive with backlight Two high grade connectors for camera and auxiliary input/output Solid state electronics – no moving parts
Camera	<ul style="list-style-type: none"> Fully sealed unit waterproof to 100m Anodised aluminium enclosure (also available in plastic body-worn variants) Dimensions of cylindrical section, approx 82mm x 25mm Weight approx – 55g Low light capability, 2.0 MPixel CMOS, 1/3" format F3.2, 52° horizontal FOV, 60° horizontal FOV, focal length 600mm to infinity Solid state electronics – no moving parts Mechanically attached to various mountings
Microphone (where provided - optional)	<ul style="list-style-type: none"> Waterproof to 15m (in-line variant) Sensitivity 30dBA SPL at 1kHz, 16kHz sampling Integrated into camera cable or into camera in body-worn variant available for specialist users.
Cables and Connectors	<ul style="list-style-type: none"> Shielded cables throughout High grade connectors, waterproof to 100m Over-moulded connector sleeves to increase robustness
Environmental Tests	<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 – 100m deep water mine and pressure chamber
Signature Management	<ul style="list-style-type: none"> Designed to MIL-STD-461 CE marked Shielded housing and cables Low power minimises emissions
Video Image Characteristics	<ul style="list-style-type: none"> VGA 640X480 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
Still Image Characteristics	<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 – 1V rms, 0dB, 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)



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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 Li-Ion integral power source • Rechargeable from USB power sources • Battery life (usage dependent): <ul style="list-style-type: none"> Continuous recording of highest quality video: up-to 5 hours Replay of video on console, no camera: up-to 8 hours Play MP3 music, no camera: up-to 10 hours • Battery life can be extended a further 16 hours by use of external power pack
Operator Functions	<ul style="list-style-type: none"> • Viewfinder mode to assist camera set-up • Record & replay video/still images • Play music files • 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 key lock modes
Software Updates	<ul style="list-style-type: none"> • Allows software updates to be downloaded from website and installed by user