

MicroMedia

Ultra-miniature solid state video recorder for concealed recording



MicroMedia is a mobile, extremely compact device for the concealed and precise recording of video and audio data. It is utilised everywhere where discreet, high-quality images are required.

Smaller than a pocketbook, MicroMedia fits in any coat pocket. The robust device can be operated via a remote control contact, functions in a low-radiation and fail-safe capacity – and of course, it is devoid of any operational or vibration noises. Thanks to the most modern MPEG-2 compression the MicroMedia records video images in complete TV image rate and resolution. The supplied, interchangeable CompactFlash memory card (1 GB) stores

video recordings of up to 110 minutes in length. While doing so, the user can choose between a high-quality mode and a long-play mode.

The interchangeable battery pack allows recordings up to one and a half hours long, and if necessary can also provide a CCD camera with power. Two integrated microphone amplifiers ensure sound recordings in stereo quality. The video sequences optionally recorded in PAL or NTSC format can be read via a USB interface or a CF unit.

Utilisation examples

As a part of the DResearch BlackLine, the MicroMedia is outstandingly suitable for all investigative and surveillance scenarios in which image and sound recordings are supposed to be carried out for observation, documentation, evaluation or evidence purposes.

Among the users are police, the military, secret services, architects, investors, material testing institutions, technical control boards and other testing institutions, as well as detective agencies and security services.



Among other things, the military and secret services utilise MicroMedia for

- Manoeuvre observation
- Reconnaissance
- Sounding out terrain and buildings
- The recording of authentic deployment scenarios for training purposes



In the police sector Micro Media enables

- The discreet observation of criminal “hot spots” (e.g. transshipment places for drugs and fenced goods, violent demonstrations, dangerous areas)
- The shadowing of suspects (classic observation, utilisation of undercover agents)
- The mobile monitoring of mass crowd events (sports events, concerts, demonstrations)
- The documentation of investigative-relevant facts (collection of evidence at crime and accident scenes, concealed recording of conversations with suspects)

Architects and investors can document progress in the construction sector with the MicroMedia. With regard to testing institutions, the device provides the documentation of results with sequential scenarios. Detective agencies and security services utilise it, among other things, for the conviction of shoplifters and for the safeguarding of large-scale events.

System description

The system's hardware and software equipment is consistently aligned to the inconspicuous and mobile utilisation in the realm of undercover investigation.

Hardware equipment

- Integrated amplifier for two microphones
- Slot for standard CompactFlash memory cards
- Interchangeable battery pack
- Button for deletion of the CF card (no PC necessary)
- Compact, robust housing: No moveable parts, no vibration, no operational noise
- On/Off switch
- Selector switch for high-quality mode (HQ) and long-play mode (LP); configurable
- Selector switch for recording and configuration
- 5 V/≤ 200 mA camera power supply

Connections

- USB interface to PC or LT (Win98SE/NT/ME/XP/2000)
- Interface for supply of a CCD camera (5 V, 200 mA)
- Input for 2 microphones
- Input for connection of a remote control mechanism

PC minimum requirements for working with the MicroMedia

- USB interface
- Win98SE/NT/ME/XP/2000
- Pentium 700 MHz or AMD processor
- 64 MB RAM main memory
- 3 GB free storage space on the hard disk
- Sound card

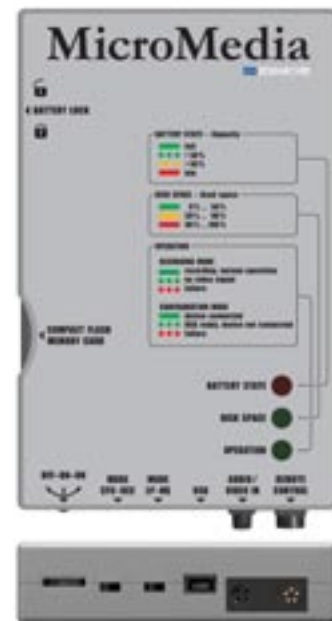
Scope of delivery

- Interchangeable and rechargeable battery pack for up to 1.5 hours of recording length
- External battery charger (Standard JVC AA-V100) with battery adapter for permanent power supply
- PC software for the configuration of MicroMedia as well as for video decoding/verification, for playback and for export of videos via USB
- Standard CompactFlash memory card (1 GB) for up to 100 110 minutes of recording length
- USB cable

Technical data

- Video PAL/NTSC with complete TV resolution and 25 to 30 frames/second
- Resolution

Resolution	PAL	NTSC
D1	720 x 576	720 x 480
2/3 D1	480 x 576	480 x 480
1/2 D1	352 x 576	352 x 480
SIF	352 x 288	352 x 240
- Audio Microphone input (stereo)
- Encoding MPEG-2 MP@ML for video and MPEG-1 Layer 2 for audio, additional encoding
- Storage medium CompactFlash memory card Type 1 or 2
- Power supply Lithium ion battery pack with 700 mAh for 75 min. (typ.); or 1,400 mAh for 150 min. (typ.); or permanent power supply via battery adapter
- Interfaces USB interface (slave) up to 12 MBit/s, audio/video input, remote controlg
- Camera power supply 5V/≤200 mA
- Status display (LEDs) Operating mode/system error; battery status; storage status; LED's can be turned off via the software
- Temperature range 0°C to 50°C
- Dimensions 130 mm x 80 mm x 22 mm



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