

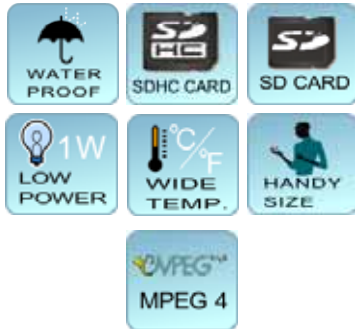


Figure: Micro DVR with camera



Figure: Handy Size



ETSA Micro DVR series

Micro Embedded Digital Video Recorder

ETSA-651U/K

Description

Micro DVR series is an amazing new pocket size, highly portable surveillance device designed to be used as covert surveillance tool or personal DVR. It features A/V recording with advanced MPEG4 compression, photo snapshot with JPEG format and motion detect. A 2.5 inches LCD is on the DVR with power saving, and a video output connector for the external monitor. In addition, embedded software making set-up and operation in easy.

System Highlight

Waterproof combo A/V I/O connector and super mini size

One 1-to-2 mini A/V output jack and one 3-in-one A/V jack providing video, audio input and power, secure locking and waterproof(rated IP65); size: 101 x 67 x 26 mm

Worldwide video source and User Friendly UI

Support both NTSC and PAL formats; OSD (On Screen Display) Menu

Motion detect function

Recording can be triggered with detecting the moving object and will continue record until the object freezes. It also supports pre and post motion detect function

High Resolution and Multiple Recording Frame Rate

Support HVGA (640X240) and VGA (640X480) high resolution; Support 30,25,20,15,10 and 5fps

Easy back-up

By SD or SDHC card reader

External Serial connector

A 20 pins external connector for system future expansion. 3 DI for alarm input, 1 DO control on/off output, One 9 pins Modem port, and one 3 pins TX/RX RS232 port

Power saving

When plugging in the external monitor and the system is idling, the LCD will be turned-off automatically

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Figure: Micro DVR outlook



Application

Rescue activities	Private investigators
Duty monitoring	Police officers
Recreation	Fire-fighters
Coaching	Spying

Specification

Audio/Video & Power	3 in 1 jack : 1 Video In (NTSC/PAL auto select) 1 Audio In (Mono) 1 5V power output for Camera (12V camera supported by Control Box)
Audio/Video output	1 Video Out (NTSC/PAL manual select) 1 Audio Out (Mono)
Storage Media	SD Card (Up to 4G version 1.1) SDHC Card Class 6 (up to 8 GB, limited SDHC type)
Power	Li-Polymer (3.7V @ 2.4 Ahr) battery; (Depend on camera-type connection : CCD camera: Maximum 3 hrs recording, CMOS camera: Maximum 5 hrs recording); External DC jack
Video Display	Real time
Recording resolution	640X480 / 640X240 @30/25/20/15/10/5 fps
Compression	MP4(.mov files)
Playback	By date / time / event
UI	OSD menu
Timer	RTC
Event Trigger	Pre / Post / Motion Detect
Dimension and Weight	101 x 67 x 26 mm, 176g (battery excluded)
Operating Temp.	-10 °C~60 °C / 14 °F~140 °F
Watchdog	Built in hardware watchdog
PC Software	ePlayer™

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Camera Specification

12 V Camera Set (with Control Box) (Earphone)

Figure: ETSA-300-KP-C121 camera



ETSA-300-KP-C121 -- 12V CCD bullet style camera

Waterproof IP65

Image Sensor CCD, 1/3" SONY

Effective Pixels NTSC 510(H)~492(V)
PAL 500(H)~582(V)

Minimum Illumination 0.5 Lux ; F2.0

Horizontal Resolution 420 TV Lines

Video Output 1.0vp-p

White Balance Auto

Power Supply DC 12V 100mA

Operating Temp. 0 °C~40 °C / 32 °F~104 °F

Operating Humidity 0% RH~80% RH

Viewing Angle 92 °

Dimension 76 x 20mm
(using with Control Box)

Figure: ETSA-300-CB



ETSA-300-CB -- 5V/12V Camera Control Box

Waterproof IP65

Control box color Black

Audio Input 1x Build in mic. (Max :-32dB Min: -38 dB.)
1x Add on mic. Connector (Phonejack 2.5Φ)

Video Input & Power Output 2 in 1 jack (Phone jack 3.5Φ)

1 x Video input

1 x DC 5V/12V /150mA

Operation Temp. -10 °C~70 °C / 14 °F~158 °F

Dimension 88.5 × 28 × 19.5mm

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Camera Specification

Figure: ETSA-300-KM-CG22 camera set



ETSA-300-KM-CG22 --- CMOS Bullet Style Camera (M8)

Image Sensor	CMOS, 1/3" Color
Effective Pixels	NTSC 510 X 492 PAL 628 X 528
Minimum Illumination	1 Lux ; F1.2
Resolution	380 TV Lines
Gamma Consumption	0.45
Exposure	Electronic Shutter 1/60 ~ 1/125,000 sec
Video Output	1Vp-p; 75 ohm; Composite
Power Supply	DC 5- 12V(Standard)
Operating Temp.	-10 °C~45 °C / 14 °F~113 °F
Dimension	22 X 43mm

Figure: ETSA-300-KM-001 camera set



ETSA-300-KM-001 -- 5V CCD Bullet Style Camera (M8)

Image Device	CCD, 1/3" Sharp
Effective Pixels	NTSC 768(H) X 494(V) PAL 752(H) X 582(V)
Minimum Illumination	0.5 Lux ; F2.0; 50 IRE
Resolution	500 TV Lines (Horizontal)
Gamma Correction	0.45
White Balance	Auto
Gain Control	Auto
Exposure	Auto Electronic Shutter 1/60 (1/50) ~ 1/100,000 sec
Video Output	1Vp-p; 75 ohm; Composite
Power Supply	DC 5V +/- 10%
Power Consumption	250mA / DC5V
Operating Temp.	-10 °C~70 °C / 14 °F~158 °F
Operating Humidity	<90% RH (no condensation)

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Camera Specification

ETSA-300-KM-N1621 -- CMOS button camera (M8)

Figure: ETSA-300-KM-N1621 camera set



Image Device	CMOS (CCIQ), 1/3" Color
Pixel	250K (NTSC) 360K(PAL)
Resolution	Horizontal 380 TV Lines.
Shutter Speed	1/50-1/125,000 Sec.
Min. Illumination	1Lux/F1.2 with 4.3mm/F2.0 Pin hole CONE Type lens, with Microphone
Power Supply	DC 5V
Power Consumption	60mA (max)
Dimension	24 X 28mm
Weight	25 g

ETSA-300-OB-01 -- Carry bag with clip

Figure: ETSA-300-OB-01 Carry bag with clip



Materials	PU
Dimension	110 X 74 X 44mm
Weight	18 g

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Camera Specification

ETSA-300-KP-C76N/P -- CCD camera (Earphone)



Glasses Holder



Clip Bracket



3M Velcro Bracket

Waterproof IP68**Image Sensor** CCD, 1/4" Color**Resolution** 250K (NTSC) 290K(PAL)**Minimum illumination** F1.9 ; 0.5 Lux**View (Diagonal)** 150 degree**Power Supply** 5V, 140 mA ~12V, 60mA**Dimension** 19 x 24 mm (size without bracket)**Weight** 20 g

ETSA-300-KP-S72 N/P -- CMOS camera (Earphone)

Waterproof IP68**Image Sensor** CMOS, 1/4" Color**Resolution** 316K**Minimum illumination** F1.9 ; 0.8 Lux**View (Diagonal)** 150 degree**Power Supply** 5V, 100mA**Dimension** 19 x 17 mm (size without bracket)**Weight** 20 g

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