



Specification



- H.264 Video format, Linux System, dual stream
- Each one support 128GB
- 4CH CIF, HD1, D1 real-time recording, 4CH audio synchronous recording
- Support setting time, trigger, manual grabbing JPEG picture function
- Support intercom function
- Support remote download and playback function (Video file or accurate to seconds to be optional, save the time and data)
- TES correction encrypted file management system, no video loss and protect data in 2s before sudden power off
- Support Pre-alarm record, Motion detection and alarm linkage
- Built-in 3G/4G, WIFI, GPS/Beidou/Glonass, G-sensor module to be optional
- 1 pcs RS-232, 1 pcs RS485, 1 pcs USB 2.0, 1 pcs Can 2.0B port, much extend ports
- Support outer extend, like LED screen, ID reader, Schedule monitor, Passengers statistic
- Can record speed, GPS position, acceleration, emergent brake, video rearview, swerve view, alarm etc
- DC8-36V wide range voltage supply, Aluminum shell, low power consumption

Model

TS-820 suffix

- +C : Aviation connector
- +A : GPS
- +B : Built-in 3G module
- +D : Built-in RS-232/RS-485
- +G : Internal G-sensor module
- +H : 2 way talk

Product parameters

Itmes	Equipment parameter	performance standard
System	Operation System	Embedded, LINUX
	Operation Interface	OSD graphical interface
	System File Type	TES special error recovery file management system
	System Access	Password access
Video	Video input	1-4CH independent input 1.0Vp-p, 75Ω
	Video output	1 channel PAL/NTSC output, 1.0Vp-p 75Ω, composite video signal
	Video display	Single or Four images
	TV system	PAL : 25fps, NTSC : 30fps
	System resources	PAL : 100 frames, NTSC : 120 frames
Audio	Audio input	4CH independent input, 600Ω
	Audio output	1CH output, 600Ω, 1.0-2.2V
	S/N ratio	≤-30dB
	Audio record method	Audio and video synchronization
	Audio compression	ADPCM
Digital processing and storage	Video format	H.264
	Image format	PAL : 4*CIF (352*288), 4*HD1 (704*288), 4*D1 (704*576) NTSC : 4*CIF (352*240), 4*HD1 (704*240), 4*D1 (704*480)
	Image quality	1-8 levels, adjustable
	Video code rate	CIF : 24K-112KByte/s (per channel), HD1/D1 : 24K-192KByte/s (per channel)
	Video storage occupation	CIF : 85M-394MByte/hour, HD1/D1 : 85M-675MByte/hour
	Playback resolution	PAL : 1or 4*CIF (352*288), 1or 4*HD1 (704*288), 1or 4*D1 (704*576) NTSC : 1or 4*CIF (352*240), 1or 4*HD1 (704*240), 1or 4*D1 (704*480)
	Audio code rate	4KByte/s (per channel)
	Audio storage occupation	14MByte/hour (per channel)
	SD storage	2 x SD card slot, each support 128GB max
Alarm port	Alarm input	4CH alarm independent input (under high electrical level)
	Alarm output	1CH alarm output (no touch circuit)
	Motion detection	"High, mid, low", adjustable
USB port	HOST port	1 at front panel, to connect external U-disk for video backup or software upgrade
LAN port	Cabled network	1x extendable RJ45 port, video check via cabled network
	WIFI wireless access	Support built-in WIFI modules (IEEE 802.11b/g/n), enable remote view and download etc
	3G network	Support built-in WCDMA or EVDO module, enable remote view and download etc
GPS port	GPS	Support GPS or Glonass modules, enable remote vehicle positioning and tracking
Extension ports	RS232 port	Extendable, enable connection to external devices
	RS485 port	Extendable, enable connection to external devices or PTZ control
	Two way talk	Extendable, enable two way talk between DVR device and monitoring center
	G-Sensor	Support internal G-sensor modules, enable gravity sensor of vehicle
	CANBUS	Support built-in CAN-BUS modules, enable communications with vehicles for functions control
Others	Power consumption	DC8-36V 5% ≤12W
	Working Temperature/Humidity	-20~+85°C
	Clock	Built-in clock, and calendar
	Product size	154 (L) * 190 (W) * 52 (H) mm
	Package size	Per unit : 220*110*175mm 10 units : 580*465*200mm
	Net weight	0.9KG per unit
Gross weight	1.1KG per unit	



Specification



- H.264 Video format, Linux System, dual stream
- Support 2.5 inch HDD, Max 1TB, and HDD &SD dual Storage
- 4CH CIF, HD1, D1 real-time recording, 4CH audio synchronous recording
- Support setting time, trigger, manual grabbing JPEG picture function
- Support intercom function
- Support remote download and playback function (Video file or accurate to seconds to be optional, save the time and data)
- TES correction encrypted file management system, no video loss and protect data in 2s before sudden power off
- Support Pre-alarm record, Motion detection and alarm linkage
- Built-in 3G/4G, WIFI, GPS/Beidou/Glonass, G-sensor module to be optional
- 1 pcs RS-232, 1 pcs RS485, 2 pcs USB 2.0, 1 pcs Can 2.0B port, much extend ports
- Support outer extend, like LED screen, ID reader, Schedule monitor, Passengers statistic
- Can record speed, GPS position, acceleration, emergent brake, video rearview, swerve view, alarm etc
- DC8-36V wide range voltage supply, Aluminum shell, low power consumption

Model

TS-610 suffix

- +C : Aviation connector
- +A : GPS
- +B : Built-in 3G module
- +D : Built-in RS-232/RS-485
- +E : Lan RJ45
- +F : SD card port
- +G : Built-in G-sensor module
- +H : Voice intercom
- +K : Can bus +W : Built-in wifi

Product parameters

Itmes	Equipment parameter	performance standard
System	Operating system	Embedded Operating System LINUX
	Operating interface	Visualized Menu Interface
	File system	TES error correction encrypted file magement system
	System privileges	Password Controls
Video	Video Input	1 to 4 Channels Independent Input 1.0Vp-p,75Ω
	Video Output	1 channel PAL/NTSC Output, 1.0Vp-p, 75Ω, composite video signal
	Video Display	1 or 4 Screen Display
	Video Standard	Video Standard PAL : 1-25frames/sec, NTSC : 30frames/sec
	System Resources	System Resources PAL : 100 frames, NTSC : 120 frames
Audio	Audio Input	4 channel independent input, 600Ω
	Audio Output	1 channel Output, 600Ω, 1.0-2.2V ≤-30dB
	Distortion plus noise	≤-30dB
	Record mode	Sound and Image Synchronization
	Audio Compression	ADPCM
Digital processing and storage	Video Stream Standard	H.264
	Image Format	PAL : 4*CIF (352*288), 4*HD1 (704*288), 4*D1 (704*576) NTSC : 4*CIF (352*240), 4*HD1 (704*240), 4*D1 (704*480)
	Image Quality	8 Grades Free to Choose
	Video Stream Bitrate	CIF : 24K-112KByte/s/channel, HD1/D1 : 24K-192KByte/s/Channel
	Video Storage Occupation	CIF : 85M-394MByte/hour, HD1/D1 : 85M-675MByte/hour
	Playback Resolution	PAL : 1or 4*CIF(352*288), 1or 4*HD1(704*288), 1or 4*D1(704*576) NTSC : 1or 4*CIF(352*240), 1or 4*HD1(704*240), 1or 4*D1(704*480)
	Audio Stream Bitrate	4KByte/s/Channel
	Audio Storage Occupation	14MByte/hour/Channel
	Harddisk Storage Available	1 SATA port, 2.5 inch SATA Harddisk, support maximum1TB
	SD card Storage available	Extensionable one SD storage port, support maximum 64GB
Alarm port	Alarm Input	4 Channel Independent Alarm Input (effective only with high level signal)
	Alarm Output	1 Channel Alarm Output (dry contacts output)
	Motion Sensor	High level, intermediate, low level Sensitivity free choice
USB port	HOST Port	USB port on front panel and back panel for backup and software upgrading
LAN port	Wireline Access	Extensive RJ45 lan port for monitoring and downloading
	Wifi Wireless Access	Built-in WIFI (support IEEE 802.11b/g/n) for monitoring and downloading
	3G network	Built-in WCDMA/EVDO module to realize remote monitoring etc
GPS port	GPS	Built-in GPS/Beidou Navigation/Glonass positioning module for vehicle tracking
Extension ports	RS232 Port	RS232 is an extensionable docking port to integrate with our equipments in car
	RS485 Port	RS485 is an extensionable docking port to intergate with other equipments or control the PTZ
	Two-way voice intercom	Extensionable voice intercom port to realize the talk between the car end and the center
	G-Sensor	Built-in G-sensor function, can realize gravity detection
	CANBUS	Built-in CANBUS module to communicate with vehicle system and get relevant parameters
Others	Power Consumption	DC8-36V 5% ≤12W
	Working Temperature/Humidity	-20~+85°C / ≤80%
	Clock	Built-in Hardware clock, perpetual calendar
	Product Size	212 (L)*210 (W)*68 (H)mm (including the standard base support)
	Package Size	Unit set : 295*240*100mm, 10 sets : 505*310*500mm
	Net Weight	1.9KG (not including harddisk)/set
	Gross Weight	2.2KG (not including harddisk)/set