

Wireless HD video from your Remote, Traffic, Weather & Beauty Cameras

The DSI CameraShark is a cellular-based transmission codec that allows video transmission from any location with suitable cellular coverage.

CameraShark is designed to mount on a pole using standard hose clamps, is powered by 120 vac and accepts analog SD, SD-SDI or HD-SDI video signals and provides a duplex data channel for camera control.

CameraShark uses H.264 with your choice of 3G, 4G, or Wi-Fi technologies to transmit live video in real time back to the studio or monitoring point.

CameraShark features DSI's unique Robustivity™ system which adjusts the image quality to compensate for varying bandwidth availability, so that you always transmit the best picture that the cellular network can support.

The DSI CameraShark is highly affordable and is ideal for those locations where microwave line-of-sight or fiber connectivity is impossible or too costly. CameraShark is ready to go within minutes of being installed, just apply power and the unit automatically boots itself and signs on to the selected cellular network instantly sending video back to the studio or monitoring point.

- Cost effective
- Eliminate your fiber or microwave backhaul
- SD, HD or SDI Inputs
- Connects easily to your new or existing remote camera system
- Weatherproof – install, set & forget
- Lightweight – installs using standard hose clamps
- H.264 encoding
- Robustivity™

**HD Traffic &
Weather Cams Go
Wireless with DSI!**



CameraShark Encoder

CameraShark Specifications

Encoder

Mechanical

Encoder

Configurations:	Pole Mounted using standard hose clamps
Size:	10.5" x 4" x 2.5" (WxDxH)
Weight:	3.0 lbs.
Material/Finish:	Iridited aluminum
Durability:	Weatherproof connectors
Environmental:	Weatherproof

Video

Encoder

Format:	NTSC, SD-SDI, HD-SDI
Impedance:	75 Ohms, terminating
Connector:	BNC female chassis
Level:	SDI: 800 mV peak to peak

Compression Encoding/Decoding

Compression Protocol:	H.264
Codec Interoperability:	None, due to communications between the encoder/decoder to optimize network traffic & bandwidth
Video Bit Rate Range:	25 kbps to 1.1 Mbps (3G) 25 kbps to 5 Mbps (4G) 25 kbps to 5 Mbps (WiFi)
Video Frame Rate Range:	1 to 30 fps
Latency (End to End):	1 to 4 seconds (subject to transmission conditions)
Codec Settings:	Variable GOP and framerate, set by Robustivity

Setup and Control

Controls	Autostarting - CameraShark is powered on with application of power
Setup	Serial Port - Uses a standard serial program

Power

Voltage:	120 vac
Connectors:	AMP circular type, configured for use with either a standard line cord or can be inserted in series with the existing TMS-3000 camera slave unit
Power Consumption:	3 watts
Boot-up Period:	50 seconds
Internal Battery:	Lithium-ion

Serial Port

Protocol	RS-232 for setup, RS-232 or RS-422 for camera control (available on serial connector, internally strapped) 9600,8,N,1
Connector	AMP 8 pin circular

RF

IP Protocols:	RTP/UDP/IPv4
FCC Compliance:	Complies with all FCC Rules & Regulations
Antenna Type:	Low-profile gain antenna, vertically polarized
Impedance:	50Ω
Gain:	3 dBi
Diversity:	Receive diversity available
Diversity Connector:	SMA female screw-on type
Cell Requirements:	Most major US wireless providers
Network Types:	EVDO, HSDPA+, 4G LTE, WiMax
WiFi Protocols:	802.11 b/g/n
FCC License:	No end-user license required

Decoder

Mechanical

Encoder

Mounting:	Rack mount
Size:	1 RU, 8 3/4" deep
Material/Finish:	Powder coated aluminum

Video

Decoder

Format:	Analog: NTSC
Impedance:	75 Ohms
Connector:	BNC female chassis
Level:	Analog: 1 volt peak to peak Digital: 800 mV peak to peak

User Controls

Display:	20 characters by 2 line backlit LCD
Item Select:	Illuminated pushbutton
Status Indicators:	Multifunction LCD and status LEDs
Menu Select:	Digital rotary encoder
Headphone Control:	Front panel volume control
Headphone Connector:	Front panel 1/4" headphone jack

Power

Voltage:	12 to 36 VDC
Power:	3 watts
Connector:	Phoenix captive
Power On/Off:	5 second Power On/Off push button
Boot up Period:	50 seconds

Miscellaneous

Mechanical

Warranty

Warranty:	1 year on parts and labor
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All Specifications are typical and are subject to change without notice

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*WiFi access is available over managed networks. For more information, please consult the DSI website at www.dsirf.com.