

DC-101 v2 720P HD DTV CAM



DTV CAM

DTV CAM is an all-new camera which outputs the captured HD video and audio in digital TV signal. The core technology is based on open industrial standard EN 300-744 DVB-T, which can transmit compressed high-definition digital video over cable or air. All DVB-T compliant receivers, including SetTopBox, Digital TV, PC/NB USB DTV dongle, or DTV capture card can receive, watch and record the video from a DTV CAM without requiring any special adapter on each receiver nor deploying new cables, but using the existing standard antenna coaxial cable.

Features

Painless upgrade to HD

Reuse existing coaxial cable deployment without any special requirement for cable & connector. DVB-T signal is so robust that even a degraded and aged cable can be used to convey HD signal perfectly.

Easy and friendly user experience

There is no lousy network IP configuration and no need to use a desktop or notebook PC. It's just as easy as watching TV programs with a TV set or SetTopBox.

Long Distance

Easily transmit HD video over a single 3C2V/RG59 cable for at least 500 meters long without adding any repeater.

For wireless applications, the line of sight transmission distance may reach 50~100 meters at 0dBm RF radiation power and up to several kilo meters at 20

dBm. The real distance depends on the antenna design and receiver quality.

Daisy-Chain Connection (Bus-Topology)

Multiple DTV CAM's with different channel configurations can share a single cable. It can dramatically reduce the cable deployment cost and effort.

Real time protocol and Low latency

No frame drop in QEF (Quasi-Error-Free) condition, and low transmission latency

Order Information:

Model Number	Lens	Photos	Housing	Package Weight
DC-101	1. F#: 2.0 2. TTL: 4.0mm 3. DFOV: 66°		Box	TBD

General Camera Specifications:

Video/Audio	Image Sensor	OV9712 1/4" 1.3M CMOS MegaPixel
	Effective Number of Pixels	1280(H) * 800(V)
	Video Compression	Configurable H.264 1280x720x30 or H.264 720x576x25 (PAL) or H.264 720x480x30 (NTSC)
	Audio Compression	AAC mono @16KHz sampling rate
	Video Transmission Protocol	DVB-T
	Auto Gain Control	AUTO
	White Balance	AUTO
	Back Light Compensation	AUTO
	Day & Night	AUTO
	Scanning System	Progressive
Power	Power Supply	DC 5V
	Power Consumption	< 2.5 W
Dimension	50mm x 50mm x 20mm (box body only, excluding the holder)	
Weight	50g (box body only, excluding the holder)	
Operating Temperature	-10°C ~ 60°C	

DVB-T RF Transmitter Specifications:

Parameter	Value
RF connector	75-Ω IPEX connector
Bandwidth	2/3/4/5/6/7/8 MHz

Constellation	QPSK and 16QAM (In 16QAM mode, only Guard Interval 1/4 and 1/8 are supported)
FFT	2K, 8K
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16 or 1/32
Frequency range	50~950MHz, 1200~1350MHz step size 1KHz All valid TV channels are fully supported, VHF 6M BW/UHF 6M BW: Channel: CH7~CH83 VHF 7M BW/UHF 7M BW: Channel: CH5~CH69 VHF 8M BW/UHF 8M BW: Channel: CH5~CH69
RF Output Level	50~950 +0 dBm (108 dBuV) Typically 1200~1350MHz -20 dBm (88 dBuV) Typically
Digital Attenuator	Range:+6/-25dB* , Step size 1dB
MER	50~950MHz, 30~35 dB Typically 1200~1350MHz, 25~30dB Typically
Spectrum Shoulder (Adjacent channel)	45dB
Phase noise	<-92dBc @ 10kHz
Carrier Suppression	>42dB

Specifications are subject to change without prior notice.

*: There could be MER loss in high gain/attenuation level.

** : All the above configurable settings can also be set or configured by a micro SD card.

***: 15 preset channels can be easily selected by a rotary switch.