





FEATURES

Slimmer profile for PoV applications

Balanced Mic/Line level analogue audio inputs with P48 mic powering

Indicators for POWER, VIDEO LOCK and RF ON

Industry-standard connectors for VIDEO, POWER and AUDIO INPUTS

Fan cooling for enhanced performance and reliability

Integrated control panel and status display

Optional camera mounting bracket converts your DBS NanoPRO into a cameraback TX

DBS NanoPRO TX

DBS has built upon the outstanding features of the awardwinning Cobham NanoHD TX to create the ultimate PoV/ miniature broadcast transmitter.

The DBS NanoPRO HD Transmitter is an ultra-miniature COFDM digital video transmitter, designed specifically for Point-of-View (PoV) and body-worn applications.

With proven Cobham COFDM and H.264 encoder technology at its core, exceptionally small size and ultra-low power consumption (typically 7W), the DBS NanoPRO Transmitter enables production teams to offer viewers stunning high definition images from the heart of the action, in situations never previously possible due to equipment size and battery run-time constraints.

The small size and ultra-low power consumption make the DBS NanoPRO TX ideal for UAV 'Octocopter' installations, enabling true long range HD broadcasting from these increasingly popular devices for the first time. Optional lightweight, low power consumption amplifiers are also available for even greater range capability.

The transmitter employs ultra-low latency High Profile H.264 (MPEG-4 AVC) encoding for excellent image quality retention over the wireless link and supports SDI & HD-SDI video input formats up to 1080p50/59.

The DBS NanoPRO Transmitter is supplied in a slim-line, fan-cooled, aluminium lightweight case and features industry standard connectors for RF (SMA), Video (BNC), Power/Data (Hirose), Audio (Hirose) and control (mini USB). An integrated joystick control panel and OLED display are provided for control and monitoring of all parameters.



For the moments that matter

SPECIFICATIONS | DBS NANO PRO TX

Connectors

RF out (video/audio)	SMA(f) – Ntype via optional Bracket
SDI Video in (see product codes)	BNC(f) or DIN 1.0/2.3 Female
Analogue audio in	6 way Hirose HR10 socket
Power/RS232data in	4 way Hirose HR10 plug
PC control	Mini USB

RF

Frequency Bands	230MHz to 8.6GHz (in bands)
Tuning Step Size	250kHz
O/P Power	100mW

DVB-T Modulation	
DVB-T Bandwidth	8MHz, 7MHz and 6MHz modes
DVB-T Guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T Modulation	QPSK, 16QAM, 64QAM
DVB-T Bit-rates	3.6Mbps to 32Mbps

Video	
Video Input	HD-SDI
Input Format	Transport stream to 60Mb/s
IP Interface	1920×1080p 59.94/50Hz
	1920×1080i 59.94/50Hz
	1920×1080p 30/29.97/25/24/23.97Hz
	1920×1080psf 30/29.97/25/24/23.97Hz
	1280×720p 60/59.94/50Hz
Compression Type	AVC/H.264/MPEG-4 Part 10
Coding Mode	High profile level 4.1, I/IP 4:2:0, 4:2:2
	Progressive or Interlaced (MBAFF)
	Horizontal down-sampling of 3/4, 2/3, 1/2

Audio	
Audio Input	Analogue: Balanced stereo pair +18dBu
	Max input level (up to 66dB gain), P48 powering
	SDI Embedded: 2x stereo pairs
Compression Type	MPEG Audio Layer 1 64-448kbps
	MPEG Audio Layer 2 48-384kbps

Encryption	
Туре	Proprietary ABS 32bit
Control	
Unit	Joystick panel + OLED display
Remote	USB Control from PC GUI Application
Physical	
Dimensions	18×60×63.5mm (HxWxD)
Weight	125g
Power	
DC Input	6 to 17V reverse polarity protected
Power Consumption	HD encoding – 7.5W worse case with 100mW RF
Environment	
Temperature Range	-10 to +50 °C
Sealing	Splash Proof
Product Codes	
DBSNPROTX-198270	NanoPro Transmitter BNC 1.98-2.7GHz
DBSNPROTX-300350	NanoPro Transmitter BNC 3.0-3.5GHz
DBSNPROTX-550600	NanoPro Transmitter BNC 5.5-6GHz
DBSNPROTX-700750	NanoPro Transmitter BNC 7.0-7.5GHz
BRK-NPRO-NTYpe	NType Camera Mount Bracket
Kit Contents	
NanoPro	

NanoPro

XLR Analogue Audio In Cables

Power and Control Cable





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