





## **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 NanoSDR Pro into a cameraback TX

## **DBS NanoSDR Pro**

DBS has built upon the outstanding features of the award-winning Domo NanoHD TX to create the ultimate PoV/miniature broadcast transmitter.

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

With proven Domo COFDM and H.264 encoder technology at its core, exceptionally small size and ultra-low power consumption (typically 8.5W), the DBS NanoSDR Pro 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 NanoSDR pro 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 NanoSDR Pro 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.

Connectors		Encryption	
ТХ Арр	1x SMA	Туре	Proprietary ABS 32bit
Mesh App	2x SMA		
Video in	BNC(f)	Control	
Analogue audio in	5 Pin Lemo	Unit	Front panel + OLED display
Ethernet/Data	7 Pin Lemo	Remote	PC control via Ethernet
DC In	4 Pin Lemo	Dhariant	
DE		Physical Dimensions	77mm x 21.65mm x 63mm
RF	101 = to 601 = (in bonds)		
Frequency Bands Tuning Step Size	1GHz to 6GHz (in bands) 250kHz	Weight	105g
O/P Power	100mW	Power	
O/P Power	IOOTTIVV	DC Input	6 to 17V reverse polarity protected
DVB-T Modulation		Power Consumption	HD encoding – 8.5W worse case with
DVB-T Bandwidth	8MHz, 7MHz, 6MHz and 5MHz modes		100mW RF
DVB-T Guard Interval	1/32, 1/16, 1/8, 1/4		
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8	Environment	
DVB-T Constellation	QPSK, 16QAM, 64QAM	Temperature Range	-10 to +50 °C
DVB-T Bit-rates	3.732Mbps to 31.668Mbps	Sealing	Splash Proof
		Product Codes	
Narrowband / UMVL Mo	dulation		Name CDD Day 4444 4 FOOLIS
NB Bandwidth	2.5MHz and 1.25MHz	NSDRPRO-114150	NanoSDR Pro 1.14-1.50GHz
UMVL Bandwidth	8MHz, 7MHz and 6MHz	NSDRPRO-167235	NanoSDR Pro 1.67-2.35GHz
NB/UMVL FEC	1/2, 2/3	NSDRPRO-198270	NanoSDR Pro 1.98-2.70GHz
NB/UMVL Constellation	QPSK, 16QAM, BPSK, 8PSK	NSDRPRO-440500	NanoSDR Pro 4.40-5.00GHz
NB/UMVL Guard Interval	1/8, 1/16	NSDRPRO-550600	NanoSDR Pro 5.50-6.00GHz
NB Bit-rates	0.6Mbps to 4.8Mbps	As Options	
UMVL Bit-rates	1.317kbps to 14.869Mbps	Dual Ped	LIC-DP-TX
Video		IP Mesh Mode	SDR-MESH
Video Input	3G-SDI	RX Mode	SDRAPP-RX-GOLD
Video Formats	1920×1080p 59.94/50Hz	NA Mode	SUNAFF NA GOLD
video Formats	1920×1080p 39.34/30112 1920×1080p 30/29.97/25/24/23.97Hz 1920×1080psf 30/29.97/25/24/23.97Hz 1920×720p 60/59.94/50Hz	Kit Contents	
		Nano SDRPro	DVB-T, UMVL, Narrowband
			SD / HD encoding
		Power cable, Limo-XLR	CAXXXX
Compression Type	H.264	Ethernet and Data	CAXXXX
Coding Mode	High profile level 4.1, I/IP 4:2:0	XLR Analogue Audio	CAXXXX
	Progressive or Interlaced (MBAFF)		
	Horizontal down-sampling of 3/4, 2/3, 1/2	Options	
Audio		Power cable, Lemo - D Tap	CAXXXX
Audio Input	Analogue: Balanced stereo pair +18dBu Max input level	Dual Pedestal	LIC-DP-TX
		IP Mesh Mode	SDRAPP-MESH
		RX Mode	SDRAPP-RX-GOLD
	(up to 66dB gain), P48 powering	DVB-T, UMVL, IP Streaming, Recording, Telemetry Narrowband 2.5MHz, 1.25MHz	
	SDI Embedded: 2x stereo pairs		
Compression Type	MPEG Audio Layer 1 64-448kbps		
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MPEG Audio Layer 2 48-384kbps