





## **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). An integrated joystick control panel and OLED display are provided for control and monitoring of all parameters.

Connectors	
TX App	1x SMA
120 E	2x SMA
Mesh App	# A
Video in Analogue audio in	BNC(f) 5 Pin Lemo
Ethernet/Data	7 Pin Lemo
DC In	4 Pin Lemo
DC III	4 PIII Lemo
RF	
Frequency Bands	1GHz to 6GHz (in bands)
Tuning Step Size	250kHz
O/P Power	100mW
DVB-T Modulation	
DVB-T Bandwidth	8MHz, 7MHz, 6MHz and 5MHz modes
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
DVB-T Constellation	QPSK, 16QAM, 64QAM
DVB-T Bit-rates	3.732Mbps to 31.668Mbps
Narrowband / UMVL Mod	dulation
NB Bandwidth	2.5MHz and 1.25MHz
UMVL Bandwidth	8MHz, 7MHz and 6MHz
NB/UMVL FEC	1/2, 2/3
NB/UMVL Constellation	QPSK, 16QAM, BPSK, 8PSK
NB/UMVL Guard Interval	1/8, 1/16
NB Bit-rates	0.6Mbps to 4.8Mbps
UMVL Bit-rates	1.317kbps to 14.869Mbps
Video	20.00
Video Input	3G-SDI
Video Formats	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	H.264
and area and the contract the second of the second	High profile level 4.1, I/IP 4:2:0
Coulling Mode	Progressive or Interlaced (MBAFF)
Coding Mode	Progressive of interfaced (MDAFF)
Couling Mode	Horizontal down-sampling of 3/4, 2/3, 1/2
Audio	
Coding Mode  Audio  Audio Input	Horizontal down-sampling of 3/4, 2/3, 1/2  Analogue: Balanced stereo pair
Audio	Horizontal down-sampling of 3/4, 2/3, 1/2  Analogue: Balanced stereo pair +18dBu
Audio	Horizontal down-sampling of 3/4, 2/3, 1/2  Analogue: Balanced stereo pair

Туре	Proprietary ABS 32bit
Control	
Unit	Front panel + OLED display
Remote	PC control via Ethernet
Physical	
Dimensions	77mm x 21.65mm x 63mm
Weight	160g
Power	
DC Input	6 to 17V reverse polarity protected
Power Consumption	HD encoding – 8.5W worse case with 100mW RF
Environment	
Temperature Range	-10 to +50 °C
Sealing	Splash Proof
Product Codes	
NSDRPRO-114150	NanoSDR Pro 1.14-1.50GHz
NSDRPRO-167235	NanoSDR Pro 1.67-2.35GHz
NSDRPRO-198270	NanoSDR Pro 1.98-2.70GHz
NSDRPRO-440500	NanoSDR Pro 4.40-5.00GHz
NSDRPRO-550600	NanoSDR Pro 5.50-6.00GHz
Kit Contents	
SDRAPP-TX-SILVER	DVB-T, UMVL, Streaming, Recording
SDRAPP-ENC-PLATINUM	SD/HD Encoding
Power cable, Limo-XLR	CA4361
Ethernet cable	CA4362
XLR Analogue Audio	CA4363
Options	
SDRAPP-TX-GOLD	Narrowband 2.5MHz & 1.25MHz
JUNAIT IN GOLD	CA3463
Power cable, Lemo - D Tap	
	LIC-DP-TX
Power cable, Lemo - D Tap	LIC-DP-TX SDRAPP-MESH



Compression Type

SDI Embedded: 2x stereo pairs

MPEG Audio Layer 1 64-448kbps MPEG Audio Layer 2 48-384kbps