

DTC






























Video product guide

The professional choice



Domo – Video, IP and Sensors

Video Transmitter Family

SOLO COFDM Transmitter	4/5	7	7HD	7DCAM	SOL8SDR	NETHUB
Unique Selling Points		 SMALL SIZE  LOW POWER  MOBILE PERFORMANCE	 HD	 ALL IN ONE SOLUTION TX, CAMERA, BATTERY & ANTENNA	 ONBOARD VIDEO ANALYTICS  INTEGRAL TELEMETRY  128GB STORAGE  DUAL VIDEO ENCODER	 3G MODEM  INTEGRAL WIFI  64GB STORAGE  SLEEP MODE
Applications	Available for Legacy system support	 BODY WORN  UNMANNED VEHICLE  CONCEALMENTS	 BODY WORN  UNMANNED VEHICLE  CONCEALMENTS	 OVERT SOLUTIONS  COVERT CONCEALMENTS  WILDLIFE MONITORING	 BODY WORN  CONCEALMENTS  PTZ CAMERA	 RURAL DEPLOYMENT  CONCEALMENTS  PTZ CAMERA  DIFFICULT TO ACCESS DEPLOYMENT
Overview		Ultra miniature TX and great value. Pair it with a NNV HD for a true tactical solution.	Same as 7 but with Broadcast quality HD. A broadcaster's dream with the best quality and low delay.	Need a rapid deployable solution? Coupled with the NNV HD this offers fantastic value.	Ultra miniature COFDM transceiver for point of view, body worn and PTZ applications.	Miniature COFDM transmitter interfaced with 3G, Wi-Fi and on-board recording.
Which Transmitter is best with which Receiver		<div>7</div> <div>NNV HD</div> <div>MIV</div> <div>PRO</div>	<div>NNV HD</div> <div>PRO</div>	<div>NNV HD</div> <div>MUV</div>	<div>NNV HD</div> <div>PRO</div> <div>MUV</div>	<div>7</div> <div>MIV</div> <div>MUV</div> <div>PRO</div>

Applications	Aircraft Uplink / Downlink						
	Body Worn						
	Infrastructure						
	Tactical Mobile Transmitter						
	UAV / UGV						
	Vehicle						
	Weatherproof						
Features	Built-in screen						
	Front Panel Display Control						
	Licensed Exempt Frequencies						
	Low Delay						
	Multiple RF Frequency Bands						
	Non Line of Sight Video						
	Touch Screen Control						
Standard Specification	100mW						
	ABS Encryption						
	COFDM Diversity Receiver						
	DVB-T (6, 7 or 8MHz)						
	HD						
	Integrated Camera						
	Integrated Downconverters						
	MPEG-2						
	MPEG-4 ASP		OPTIONAL	OPTIONAL			
	MPEG-4 H.264		SD	HD/SD	SD	HD/SD	SD
	Power Consumption	4W	3.5W	7.5W	6W	7W	8W
	Video Streams					2	8
Options	AES / Encryption ¹						
	ASI			IN			
	Booster PA						
	External Downconverters						
	IP Streaming						
	MPEG-4 ASP	GOLD	GOLD	GOLD	GOLD		
	MPEG-4 H.264						
	Narrow Bands (2.5, 1.25MHz)	GOLD	GOLD	GOLD	GOLD		
	On Board Recording						
	PTZ Command & Control						
	SDI and Genlock						
	Ultra Narrow Band (625kHz)	PLATINUM	PLATINUM	PLATINUM	PLATINUM	GOLD	
	Ultra Mobile Video Link		PLATINUM	PLATINUM	PLATINUM	PLATINUM	
	IP Streaming						

1. Subject to UK Export Control 2. Hardware dependent






































Video Receiver Family

SOLO COFDM Receiver

Unique Selling Points

Applications

Overview

7	NNV HD	MIV	PRO	MUV
 IP STREAMING   IF VERSION AVAILABLE  INTEGRAL WIFI	 TOUCH SCREEN CONTROL  ON BOARD RECORDING   IF VERSION AVAILABLE  	 LARGE COLOUR MONITOR  AVAILABLE  TOUCH SCREEN CONTROL  IP STREAMING AND RELAY  ON BOARD RECORDING	 UP TO 8 WAY DIVERSITY     2 CHANNEL RECEIVER	 TOUCH SCREEN CONTROL  IP STREAMING     4 CHANNEL RECEIVER AND DISPLAY
 AIRBORNE  OVERT SOLUTIONS VEHICLE  ENVIRONMENT PROTECTION	 BODY WORN  UNMANNED VEHICLE	 UNMANNED VEHICLE  TACTICAL VEHICLES	 INFRASTRUCTURE COMMAND AND CONTROL	 TACTICAL VEHICLES  VIP PROTECTION  WILDLIFE MONITORING
Offers everything the 4 has plus IP Streaming and can be used with separate battery pack.	Hand Held receiver perfect for tactical deployment and system set up.	Go to product for tactical viewing. Paired with a 7DCAM gives a complete video solution.	Feature rich RX. Best for receiving multiple streams and is the cornerstone of any infrastructure project.	Deployable 4 channel receiver for tactical and vehicle deployment especially in creating temporary virtual perimeter.

Applications	7	NNV HD	MIV	PRO	MUV
Aircraft Uplink / Downlink	■	■	■	■	■
Body Worn	■	■			
Infrastructure				■	■
Tactical Mobile Transmitter	■	■	■		
UAV / UGV				■	■
Vehicle	■	■	■		■
Weatherproof	■				
Features	7	NNV HD	MIV	PRO	MUV
Built-in screen		■	■		■
Front Panel Display Control	■			■	■
Licensed Exempt Frequencies	■	■	■	■	■
Low Delay	■	■	■	■	■
Multiple RF Frequency Bands	■	■	■	■	■
Non Line of Sight Video	■	■	■	■	■
Touch Screen Control		■	■	■	■
Standard Specification	7	NNV HD	MIV	PRO	MUV
100mW					
AES Encryption	■	■	■	■	■
COFDM Diversity Receiver	■	■	■	■	■
DVB-T (6, 7 or 8MHz)	■	■	■	■	■
HD	■	■	■	GOLD	■
Integrated Camera					
Integrated Downconverters	■	■	■		■
MPEG-2	■	■	■	■	■
MPEG-4 ASP	■	■	■	■	■
MPEG-4 H.264	■				
Power Consumption	8W	9W	20W	44W	100W
Video Streams	1	1	1	2	4
Options	7	NNV HD	MIV	PRO	MUV
AES / Encryption ¹	■	■	■	■	■
ASI			PLATINUM	PLATINUM	PLATINUM
Booster PA					
External Downconverters	IF OPTION	IF OPTION	IF OPTION	■	■
IP Streaming	WIFI OPTION	GOLD	GOLD	GOLD	GOLD
MPEG-4 ASP	GOLD	GOLD	GOLD	GOLD	GOLD
MPEG-4 H.264	GOLD	GOLD	■	■	■
Narrow Bands (2.5, 1.25MHz)	GOLD	GOLD	GOLD	GOLD	GOLD
On Board Recording	■	■	■		■
PTZ Command & Control	■	■	■	■	■
SDI and Genlock				■	■
Ultra Narrow Band (625kHz)	PLATINUM	PLATINUM	PLATINUM	PLATINUM	PLATINUM
Ultra Mobile Video Link			■	■	■
IP Streaming					

Which Transmitter is best with which Receiver?

Standard pairings are:

Transmitter:	Receiver:				
NETHUB	7	NNV HD	MIV		
4/5	7	NNV HD	MIV	PRO	MUV
8SDR	NNV HD	PRO	MUV		
7	7	NNV HD	MIV	PRO	
7HD	NNV HD	PRO			
7DCAM	NNV HD	MIV	MUV		



Software Bundles

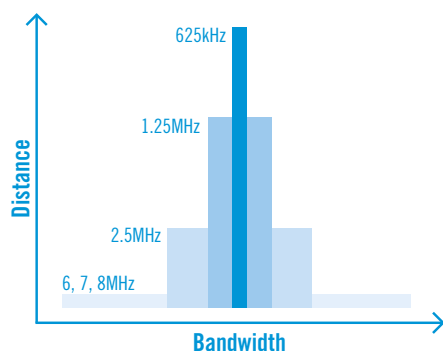
All SOLO Transmitters and Receivers are sold with Bundled Software Licences, see example below.

Licensing bundles do vary according to the type of product used, so please refer to the product datasheet for the definitive guide.

Option:	Type of user:	Software includes:
SILVER	BASIC, ENTRY LEVEL	DVB-T (6/7/8MHz) MPEG-2, ABS
GOLD	SOPHISTICATED USER	DVB-T (6/7/8MHz) MPEG-2, ABS 2.5MHz, 1.25MHz, MPEG-4 ASP, H.264, IP Streaming
PLATINUM	ALL OPTIONS	DVB-T (6/7/8MHz) MPEG-2, ABS 2.5MHz, 1.25MHz, MPEG-4 ASP, H.264, IP Streaming 625kHz, Ultra Low Latency, UMLV, ASI and Genlock ²

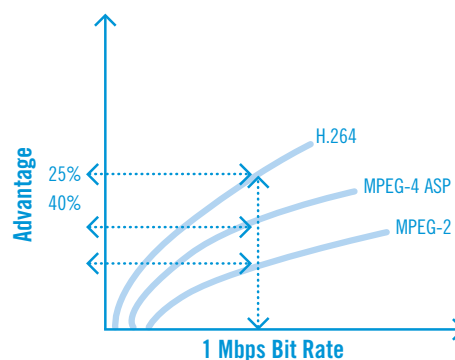
Encryption (AES 128/256) is available for all Options subject to UK Export Control.

Bandwidth v Distance



- Reducing bandwidth increases the range a video link will travel and gives increased spectral efficiency (more channels possible for any given amount of spectrum).
- Reducing bandwidth however, decreases the bit rate and therefore the video quality is reduced.

Picture Quality



- A video link utilising H.264 coding and 1.25MHz of spectrum gives the same picture quality as 2.5MHz MPEG-4 and 2.5MHz MPEG-2.

Video product guide

Critical video, captured

Award-winning overt and covert COFDM video surveillance system

DTC's video business was established in 2001 and is widely recognised as the global leader, selling into over 110 countries. With Domo COFDM technology at its core, DTC continues to build on this, combining innovation and ingenuity with reliability and performance.

Transmitters

- Airborne
- Body Worn
- Covert Concealments
- Overt Solutions
- Unmanned Systems
- Vehicles

Receivers

- Airborne
- Infrastructure
- Mobile Command and Control

Versatile technology

DTC's overt and covert COFDM video surveillance systems enable the monitoring and recording of critical video data through non-line of sight (NLOS) and line of sight (LOS) transmission systems. The quality offered by these solutions means that very high evidential standards can be reached in situations such as:

- Infrastructure protection
- Identifying and monitoring of terrorist threats
- Monitoring of serious crime
- Public order policing
- Intelligence gathering.

Security and flexibility

Over the last decade DTC's digital wireless products, powered by Domo technology, have been the 'go to' products for discerning customers with video requirements.

DTC systems are not reliant on public or commercially available networks for either wireless video transmission or onward distribution of video data making them more secure and flexible for law enforcement, military and intelligence agency organisations globally.

Leading the way

Whether the customer is purchasing existing products or taking part in initial design and development discussions on new projects, DTC's team is fully committed to ensuring all products and solutions are delivered on time and to budget, managing every aspect from new product launches to through-life service and support agreements.

With customers in over 100 countries and tens of thousands of units sold, DTC continues to lead the way, working in partnership with key customers to deliver best-in-class products and solutions.

A wide range of solutions

DTC video products are all part of the SOLO family, offering point to point and point to multipoint, digital wireless products and solutions.

Utilising industry compression standards, MPEG-2 and MPEG-4 (H.264) along with DVB-T and DVB-T2 standard COFDM (Coded Orthogonal Frequency Division Multiplex) waveforms, DTC's digital SD and HD video performance is leading the way in both the surveillance and broadcast industries.

Award-winning

DTC also recognises that, for some customers, basic standards are not enough and that they require industry-specific enhancements. Therefore narrowband, ultra-narrowband, ultra low delay and other optional software improvements have been developed to ensure the customer always has the right tools to complete their tasks. This attention to detail is why DTC has been recognised on two occasions, winning The Queens Award for both Innovation and Export.

High Bandwidth Mesh – P5

DTC's latest P5 technology provides proven high-capacity multi-domain IP connectivity in challenging NLOS environments. With bi-directional capabilities into areas unreachable by existing technologies, DTC's Mesh systems provide a step change in performance.

This brochure on DTC's innovative video technology is part of a series of brochures of our core products: Video, Mesh, Broadcast, Audio, Tracking, Search and Rescue, City Wide Infrastructures.

Telemetry

The DTC SOLO8 Telemetry Transmitter/Receiver is a small, single box solution providing Bi-Directional ISM band telemetry communications.



The SOLO8 Telemetry TRX can operate in two modes:-

- Low bandwidth SOLO8-SDR compatible mode, 4800 baud
- High bandwidth mode capable of up to 115200 baud

Features:

- Small footprint
- Bi-directional data link
- 20dBm output power
- Available in standard ISM bands
- Single power/data connector
- Low power consumption
- RS232 control port
- Switchable RS232, RS422 and RS485 data port
- Compatible with SOLO8-SDR telemetry
- Higher data rate mode available (range is reduced)

Specification:

Frequency	902-928MHz, 433MHz
Sensitivity	-100dB
Control	RS232
Data Interface	
Data Format	RS232, RS422 or RS485 switchable
Data Baud	1K2 to 115K2 baud switchable

Amplifiers

DTC offer a range of amplifiers at most frequencies from 1 to 5 watts. In addition specialist 10 watt amplifiers are available at S and C band. Contact DTC for further information.

For further information on DTC Video or any other of our range of surveillance solutions contact your Sales Account Manager or one of our Regional Sales Offices, or email solent.info@domotactical.com

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