

SOLO7 – MultiVue2 Receiver

COFDM – Video, Audio Telemetry and IP Products

May 2016 Data Sheet



The Domo Tactical Communications (DTC) MultiVue2 is a briefcase receiver package, with DTC technology at its core, for team-based tactical video surveillance operations. It will simultaneously decode and display four separate SD or HD digital video channels, allowing its operator to observe activities in four different locations or four views of one location. Typical applications include tactical surveillance teams and first responder and emergency teams. Equipped with dual diversity antennae inputs, the MultiVue2 ensures excellent video reception quality.

The MultiVue2 combines four DTC SOLO Receivers with two diversity down-converters and two antennae into one rapidly deployable briefcase kit. A comprehensive touch screen interface is provided for user control. A colour Full HD monitor is mounted in the lid and can be user-controlled to display a quad image, or any one of the four individual images. Video and audio outputs are provided at the rear of the unit for recording, while local audio monitoring is provided via integral speakers or headphone outputs.

The MultiVue2 capabilities can be extended with optional IP streaming. The unit can be AC or DC powered, an external AC/DC PSU is supplied and stored within the briefcase.

The narrow bandwidth modulation offers unprecedented spectrum efficiency, while also increasing the system sensitivity and, therefore, range.

The MultiVue2 has comprehensive On Screen Display diagnostic capability to show link quality and spectrum and is equipped with video, two voice and data channels.

Receiver Features:

- Four simultaneous SD/HD video reception and viewing
- Comprehensive demodulation 8/7/6/2.5 and 1.25MHz/625kHz (optional)
- Maximum ratio combining antenna diversity for fade and multipath elimination
- Lid mounted fold-out antennae
- Colour Full HD monitor in lid with quad or individual viewing
- Tilting user touch screen control interface
- 500GB SSD for internal recording
- IP streaming
- Comprehensive On Screen Display (OSD) diagnostics for link analysis, including spectrum analyser*

Commander Features:

- Integral triple axis joystick for control of PTZ camera
- Telemetry 100mw Transmitter able to address multiple cameras
- Camera position pre-set storage
- Multiple PTZ protocols supported.



GUI View

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Specification:

Input

Local Antenna Inputs	TNC
External UHF Inputs	TNC
Ethernet	RJ45
DC Supply	4 Pin XLR

Output

4x CBVS/SDI/HD-SDI Video	BNC
4x Analogue Audio	5 pin Lemo
4x HD Video	HDMI
2x ASI Out	BNC
2x ASI In	BNC
Headphone	3.5mm

Antennae

Lid Mounted Antennae	2dbi Omni
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RF

Frequency Bands	Various
Tuning Steps	250KHz

Modulation

DVB-T Bandwidth	8/7/6MHz (optional)
DVB-T Guard	1/32, 1/16, 1/8
DVB-T FEC	2/3, 5/6
DVB-T Modulation	QPSK, 16QAM, 64QAM
Sensitivity	-95dB Plus
SOLO Bandwidth	2.5/1.25MHz/625kHz (optional)
SOLO Guard	1/16, 1/8
SOLO FEC	1/3, 2/3
SOLO Modulation	QPSK 16QAM
Sensitivity	-95 to -104dB

Video

Line Standard	PAL / NTSC
Resolution	H.264 SD 704, 528, 480, 352
Resolution (HD)	1920*1080i @30/29.97/25 1280*720p @60/59.94/50
Coding Mode	H.264 SD/HD 4:2:0 MPEG2* SD 4:2:2 or 4:2:0
Video latency	80ms typical
Screen Resolution	1920x1080

Audio

Output	Line Level
Sample Rate	48kHz
Format	MPEG Audio 384Kb/s to 64Kb/s Mono or Stereo

Control

Local Control	By touch screen control interface
Video Recordings	USB 2.0 for connection to PC

Recording

Internal 500GB HDD

Remote Control

Over Ethernet	Via RJ45 Ethernet Port
On Screen Display*	Spectrum, RX SNR, RX Power

Physical

Dimension	L 540mm, W 420mm, H 220mm
Weight	Less than 21kg

Power

DC Input	10-32V
Power Consumption	120W Approx.

Environment

Temperature Range	-10 to +50°C
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Telemetry (Commander Variant)

RF Frequency Band	*868-870MHz 457-459MHz 903MHz
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Antenna	PRS
Power Output	100mW
Joystick	Triple Axis Joystick: left, right, up, down, twist to zoom

*Future releases

Product Codes:

Please see configurator table on the following page.

Products are available to security users in licensed frequency bands. Encryption licences are subject to export control. These products are not approved for use by unlicensed users. Commercial products are available if used in appropriate licensed frequency bands.

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Family: Receiver Product: SOLO7

Export of Encrypted Products is Subject to United Kingdom Regulatory Export Controls

DTC Sales Code

Please enter required codes

SOL7MUV2
Standard RX Version

Code	Frequency
Mid-range frequency determined by internal Down Converters & ANT's	
115140	1.15-1.40GHz
170200	1.70-2.02GHz
175238	1.75-2.38GHz
200250	2.00-2.50GHz
310350	3.10-3.50GHz
440500	4.40-5.00GHz
560590	5.60-5.90GHz

Code	Software License
S	Silver <i>incl</i>
G	Gold
P	Platinum

Code	Encryption Code
* ABS32 included as standard	
AES128	AES128 Decryption
AES256	AES256 Decryption

Code	BCrypt
* restrictions apply	
BC	BCrypt

SOL7MUV2C
Commander Version

Frequency	Code
Mid-range frequency determined by internal Down Converters & ANT's	
1.15-1.40GHz	127
1.70-2.02GHz	188
1.75-2.38GHz	202
2.00-2.50GHz	225
3.10-3.50GHz	330
4.40-5.00GHz	470
5.60-5.90GHz	575

Code	Telemetry
045	458.5-459.5MHz
090	902.1-903.6MHz

Code	Software License
S	Silver <i>incl</i>
G	Gold
P	Platinum

Code	Encryption Code
* ABS32 included as standard	
AES128	AES128 Decryption
AES256	AES256 Decryption

Code	BCrypt
* restrictions apply	
BC	BCrypt

Software License Code Includes	
Silver	DVB-T, MPEG-2, H.264 SD, Recording & Streaming
Gold	Silver plus MPEG-4, H.264 HD, Narrowband 1.25MHz & 2.5MHz, IP Decoding
Platinum	Gold plus Ultra Extreme Narrowband 625kHz, Ultra Mobile Video Link (UMVL)

Product Codes Include	
CA2768	MultiVue2 External Mains PSU
CA2787	MultiVue2 External DC Power
TELTX Antenna as appropriate (Commander only)	

Compatible Products (sold separately)	
SOL7NTX	Transmitter
SOL7HDNTX	Transmitter

Related Accessories (sold separately)	
AP007192	AU Mains Power Lead for PSU
AP004634	EU Mains Power Lead for PSU
AP000481	UK Mains Power Lead for PSU
AP001483	US Mains Power Lead for PSU
CA0008	BNC Video lead 3M
CA0067	Telemetry Audio Out Cable (FGA) Lemo -Phono 3m

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