

SOL8MIVHD

MicroVue HD Receiver Case

Overview:

The DTC SOLO 8 MicroVue HD is a third generation briefcase receiver with an inbuilt solid-state recorder and PTZ control, packaged for tactical video surveillance operations. Additionally, it can be used as a remote video receiver for UAV and UGV applications.

The MicroVue HD combines a latest generation DTC SOLO HD Receiver with two way diversity provided by a pair of in-built down-converters and two fixed antennae in a rapidly deployable briefcase. A 9" (228mm) sunlight readable 800 x 480 resolution colour LCD screen is mounted in the lid, while a comprehensive colour touch screen panel is supplied for control and set up.

Power is supplied via an external DC supply or a broadcast type Gold Mount battery (option). The battery can be charged in situ and can be hot swapped when the external DC supply is connected.



Features and Benefits:

Full HD reception and decoding.

9" (228mm) 800x480 colour monitor in lid

Comprehensive demodulation 8/7/6 DVB-T

Narrowband, 2.5MHz*, 1.25MHz*, 625kHz* (optional)

Maximum ratio combining antenna diversity, for fade and multipath elimination

Two fixed lid mounted antennae with downconverters

Two inputs for externally mountable downconverters

Comprehensive On Screen Display (OSD) diagnostics for link analysis, including spectrum analyser

Headphone output, line level output & microphone input

DC & hot swappable AB-Mount battery operation

4.3" (109mm) touchscreen in base for device configuration

128GB solid state HD recorder

Two axis analogue joystick and one axis analogue zoom for PTZ camera control

Option - AES128 or AES256 encryption*

Option - streaming video over IP (ONVIF Profile-S)

Product information:

Product Includes:

AP009029	Tri-Band telemetry antenna 144/430/900MHz
CA0113	External 12V DC input cable

Accessory Options (sold separately):

AP009162	Battery, 14.4V 95Wh, SWIT S-8082A, Gold Mount battery pack
CA2092	12v DC PSU (requires power lead)
AP006673	AU power lead for CA2092
AP004634	EU power lead for CA2092
AP000481	UK power lead for CA2092
AP001483	US power lead for CA2092

Related Documents:

100238	SOL08 MicroVue HD Receiver User Guide
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Technical Specification:

Inputs

External IF 1 (input A)	TNC
External IF 2 (input B)	TNC
Internal RF 1 (input C)	Antenna 1
Internal RF 2 (input D)	Antenna 2
Power (12V DC)	4-way 1B Lemo
Microphone level audio	3.5mm stereo jack

Outputs

Composite video	BNC (shared with HD-SDI)
Digital video	Full size HDMI BNC (HD-SDI)
Line level audio	3.5mm stereo jack
Headphone audio	3.5mm stereo jack
RS232 control	3-way 0B Lemo
Data	3-way 0B Lemo
Ethernet	RJ45
USB	Type-B USB 3.0
PTZ control RF output	SMA

RF & Antennae

4dBi colinear (internal)	SMA
IF external (user's own)	TNC
Tuning steps	125kHz
Receive IF	50 to 850MHz
LNB power	9V 500mA

Modulation

DVB-T bandwidth	8/7/6MHz
DVB-T guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6
DVB-T modulation	QPSK, 16QAM, 64QAM
DVB-T sensitivity	-95dBm at 8MHz
Narrowband bandwidth	2.5*/1.25*/0.625*MHz
Narrowband guard	1/8, 1/16
Narrowband FEC	1/3, 2/3
Narrowband modulation	QPSK, 16QAM
Narrowband sensitivity	-95 to -104dBm

Video

SD line standard	PAL/NTSC
SD resolution	704, 528, 480, 352
HD formats	1920x1080i 60/59.94/50Hz 1920x1080p 30/29.97/25/24/23.97Hz 1920x1080psf 30/29.97/25/24/23.97Hz 1280x720p 60/59.94/50Hz
Coding mode	MPEG4 AVC H.264
Delay	60ms to 1sec depending on mode
Frame rate	Full/half/quarter/eighth*

Audio

Sample rate	32kHz, 16kHz, 8kHz
Format	Linear or MPEG L1/L2 48kHz 64-384kb/s
Bits per sample	12 or 8 bit

Data Interface

RS232 data output	1K2 to 115K2 baud switchable
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Encryption

Format	ABS AES128/AES256*
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PTZ Control

Frequency bands	915MHz 868MHz #
Power	20dBm
PTZ protocols via SOL8SDR	Visca Pelco-D
Controls	Two axis analogue joystick One axis analogue zoom wheel
Additional controls on touchscreen	

Control

Local control via touch screen	
Remote control via RS232 or web over Ethernet (some options not available via RS232 or web control)	
Backlight adjustable to minimise light emission	
Full blackout option via single button press	
On Screen Display (OSD)	Rx spectrum Rx SNR, Rx power Date and time Tx battery level

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Technical Specification (con't):

Physical

Dimension	L 424mm, W 332mm, H 111mm L 16.7ins, W 13.1ins, H 4.37ins
Weight	6.28kg (7.18kg with battery) 13.8lbs (15.8lbs with battery)

Power

DC input	10 to 32V (60W charging, 40-45W running)
Battery	2.75 hours normal operation
Battery type	Gold mount Li-ion
Recommended battery	SWIT S-8082A 95Wh SWIT S-8110A 126Wh (not air transport approved)

Environment

Operating temperature	-20 to +50°C (-4 to +122°F) - not charging batteries +10 to +40°C (+50 to +104°F) - charging batteries
Storage temperature	-24 to +60°C (-11 to +140°F)
Sealing	IP66 (closed) IP42 (open and in use)

DVR Specification

128GB SD card fitted as standard (not removable)

Frequency

115140-043	1.15-1.40GHz RF, 50-850MHz IF 433MHz PTZ
175238-091	1.75-2.38GHz RF, 50-850MHz IF 915MHz PTZ
203255-043	2.03-2.55GHz RF, 50-850MHz IF 433MHz PTZ
203255-091	2.03-2.55GHz RF, 50-850MHz IF 915MHz PTZ
440500-091	4.40-5.00GHz RF, 50-850MHz IF 915MHz PTZ

Software License Code

Silver (included)	DVB-T, H.264 SD, Recording
Gold	Silver plus Narrowband 1.25MHz & 2.5MHz, IP Streaming, H.264 HD
Platinum	Gold plus Ultra Extreme Narrowband 625kHz, Ultra Mobile Video Link (UMVL)

* Licensed feature

Future development

Export of encrypted products is subject to United Kingdom regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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