

SOLO CENTRAL RECEIVER AND SOLO4 RECEIVER

The **domo** SOLO Central Receiver system is a highly flexible solution for use in permanently-installed central receive applications. The Central Receiver system can be supplied with the following flexibility:

- Between one and four built-in receivers
- Dual diversity or four-way diversity
- Built-in rebroadcast transmitter for down link
- Built-in ethernet for network connection
- Rack mount or outdoor box installation.

The **domo** central receiver is typically installed at a permanent elevated receive point and is receiving and decoding the transmissions from up to four transmitters simultaneously. The transmissions are received through one of four antennae typically mounted on the four corners of the building for complete 360° coverage. The multiple video and audio outputs are typically viewed locally or are down linked using the built-in rebroadcast transmitter to the **domo** SOLO4 Receiver.

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

The Central Receiver and SOLO4 Receiver have comprehensive on screen display diagnostic capability to show link quality and spectrum and are equipped with video, two voice and data channels. Security of transmission is ensured by the use of optional AES128/256 bit encryption algorithms, subject to export controls.

Features:

- Four simultaneous video reception and viewing
- Comprehensive demodulation 8/7/6/2.5 and 1.25MHz (optional)
- Up to four-way maximum ratio combining antenna diversity for fade and multipath elimination
- Built-in options for rebroadcast or IP network distribution
- Rack mount or outdoor hardware solutions available
- Comprehensive on screen display (OSD) diagnostics for link analysis, including spectrum analyser
- Internal AES128/256.

Applications:

- Police metropolitan and urban observation
- Key building surveillance
- Military command and control posts
- Airport, ports and terminal security
- Border control
- Major incident support.

Users:

- Police technical support units
- Police silver and gold command
- Special forces
- Customs and Excise
- Security services.

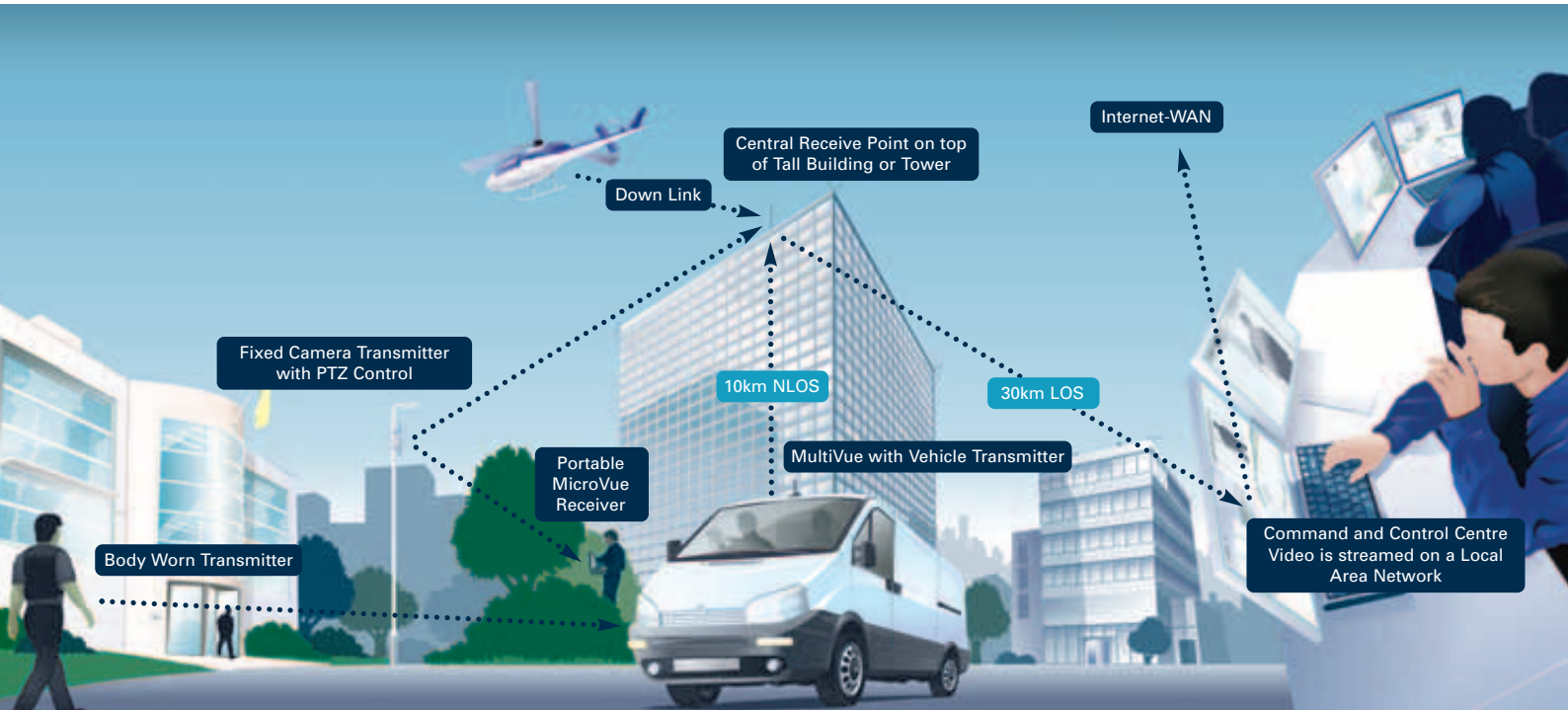


Solo Central Receiver



On Screen Display

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Specification:

Input	
Dual Diversity Antenna (lid)	TNC
Optional external antennae input	TNC
AC Supply	IEC
11-14V Input	4 Pin XLR
Output	
Four Video	BNC
Eight Audio	Phone
Headphone	Jack Socket
RF	
Frequency Bands	2280 to 2550MHz, 1100 to 1400MHz (others on request)
Tuning Steps	250KHz
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
SOLO Bandwidth	2.5MHz (1.25MHz optional)
SOLO Guard	1/16, 1/8
SOLO FEC	1/3, 2/3
SOLO Modulation	QPSK, 16QAM
Sensitivity	-95 to -105dB
Video	
Line Standard	PAL/NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2 (MPEG4 optional)
Delay	43ms to 120ms depending on mode
Frame Rate	Full/Half/Quarter/Eighth (selectable)

Audio	
Output	Line Level
Sample Rate	32KHz, 16KHz, 8KHz
Bits per Sample	12 or 8 bit
Encryption	
Format	ABS 32 bit as standard AES128/256 (optional)
Control	
Local Control	By push button control interface
On Screen Display	Spectrum, RX SNR, RX Power
Physical	
Dimension	L 420mm, W 280mm, H 180mm
Weight	Less than 8kg
Power	
AC input	110/240V
DC input	11-14V
Environment	
Temperature Range	-10 to +50 deg C

Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users. Commercial products are available to unlicensed users - contact **domo** direct for details.

Product Code: SOL4CRX (2.5MHz TO MPEG4 1.25MHz UPGRADE ADD SOL4RXUP)



domo

domo is at the forefront of innovation, developing technologies in the fields of digital wireless, video, audio, telemetry and IP.

Our key technology expertise is in digital video processing, digital modulation and Internet Protocol (IP) interfacing.

Our strength is in adapting complex technologies into simple-to-operate, robust solutions.

Our team of dedicated **domo** engineers is continually developing new solutions directed by demanding customer requirements in fields such as:

- Police Forces
- Security Services
- Special Forces
- Homeland Security Agencies
- First Responders
- Fire Services
- Port Security
- Traffic Management Agencies.