The SOLO8 Software Defined Radio (SOL8SDR) is an ultra-miniature COFDM digital video transceiver, designed specifically for Point-of-View (PoV), body-worn and concealment applications.

Three enclosure variants are available. Robust (-R) provides a passively cooled IP66 rated enclosure ideal for outdoor, or body worn applications. Concealment (-C) is an ultra-miniature package for integration into concealment solutions. Plain (-P) provides a compact higher power solution (2x500mW) for increased range and enhanced connectivity with native RJ45 and USB as standard.

With proven DTC COFDM and H.264 encoder technology at its core, the exceptionally small size and ultra-low power consumption (5 to 10W mode dependant, higher for 2x500mW plain enclosure variant) enables stunning high quality high definition images from the heart of the action, in situations never previously possible due to equipment size and battery run-time constraints.

Built-in motion detection can be used to further expand battery life, or storage capacity, with event triggered transmission and/or recording.

The DTC SOL8SDR is derived from the successful SOLO7 HD Nano Transmitter range. It uses the same high performance video codec on a more flexible yet compact hardware platform. The SOLO8 supports dual High Definition HD-SDI inputs. In addition the SOL8SDR integrates 128GB of internal video storage on Flash memory. An integral battery backed-up real time clock provides a time and date stamp. The SOL8SDR also provides both USB and Ethernet I/O interfaces. The Ethernet interface supports IP streaming of video via both ‘RTSP’ and multicast streaming compliant to ONVIF Profile S. This one unit can effectively be either an IP encoder, front end recorder, a COFDM TX, or an IP Mesh NETNode in one box.

The small size and ultra-low power consumption make the SOLO8 Software Defined Radio ideal for concealments and hidden point of view applications. Optional lightweight, low power consumption amplifiers are also available for even greater range capability.

The SOLO8 Software Defined Radio employs ultra-low latency High Profile H.264 (MPEG-4 AVC) encoding for excellent image quality retention over the wireless link or contested IP network.

The transmitter integrates an ISM band telemetry modem, which currently supports 433MHz and 915MHz. This telemetry receiver allows return command and control information to be sent to the SOL8SDR unit. The command information can be used to control the inbuilt recording and to power on and off the unit. The return data link has sufficient capacity to support PTZ commands for a connected PTZ camera – VISCA and PELCO-D protocols can be supported.

Software Defined Radio App available options are as a COFDM Transmitter (SDRAPP-TX), an IP Encoder (SDRAPP-ENC) and IP MIMO Mesh (SDRAPP-MESH) supported by software updates.
Specification:

ID
RF COFDM Output 1
RF COFDM Output 2
RF Telemetry Input
Video SD/HD-SDI 1
Video SD/HD-SDI 2
USB Control and Download
Power Input
Power Output
PA Control
Microphone 10V
Microphone Line Input
PTZ Control, or Data IO
Gigabit Ethernet
COFDM Output
RF COFDM Output 1
RF COFDM Output 2
RF Telemetry Input
Video SD/HD-SDI 1
Video SD/HD-SDI 2
USB Control and Download
Power Input
Power Output
PA Control
Microphone 10V
Microphone Line Input
PTZ Control, or Data IO
Gigabit Ethernet

Audio
Analogue Audio Input
Digital Audio Input
Sample Rate
Coding Modes

Data Interface
PTZ Control
Data Input

Encryption
Type

Streaming
Format

Recording
Medium
Encapsulation

Control
USB
Ethernet
Access

Physical
Dimensions
Weight

Power
DC Input
DC Output
Camera/Adapter Power
Typical Power Consumption

Environment
Temperature Range
Humidity
Cooling
Sealing
EMC Conformance

Product Codes:
* Future development

* Future development
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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DTC Sales Code

Please enter required codes

**SOL8SDR-R**

<table>
<thead>
<tr>
<th>Code</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>132343</td>
<td>1.14-1.50GHz + 433MHz</td>
</tr>
<tr>
<td>201345</td>
<td>1.07-2.30GHz + 433MHz</td>
</tr>
<tr>
<td>204301</td>
<td>1.76-2.30GHz + 433MHz</td>
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<tr>
<td>234134</td>
<td>2.00-2.70GHz + 433MHz</td>
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<tr>
<td>234201</td>
<td>2.00-2.70GHz + 215MHz</td>
</tr>
<tr>
<td>470201</td>
<td>4.50-5.0GHz + 215MHz</td>
</tr>
</tbody>
</table>

Other options may be available on request.

**SDRAPP**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>IP Encoder</td>
</tr>
<tr>
<td>TX</td>
<td>100mW COFDM Transmitter</td>
</tr>
<tr>
<td>WETH</td>
<td>100mW IP Mesh NETNode</td>
</tr>
</tbody>
</table>

Software Licence Codes (Silver / base level included in BOX)

- **Silver**
  - SDRAPP-ENC includes Audio, Data, Recording, Streaming
- **Gold**
  - Silver plus MPEG4 H.264 (SD)
  - Gold plus DVB-T (HD)
- **Platinum**
  - Gold plus Narrowbands 1.25MHz & 2.7MHz
  - Platinum plus Ultra Extreme Narrowband 825kHz, Ultra Mobile Video Link (UMVL)

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