Domo Broadcast Catalogue
Broadcast without boundaries
There’s broadcast, and then there’s DTC Domo Broadcast.

At the forefront of wireless broadcast technologies, DTC develops cutting-edge technologies for the broadcast market, while providing real technical and operational benefits to newsgathering, live production, and other high profile applications in solutions that empower users to broadcast without boundaries.

Leading the revolution in POV technology

As a world-class, global supplier of wireless links, we offer high-quality, DVB-T low delay broadcast transmit, receive and IP solutions. These have been designed specifically for electronic newsgathering, outside broadcast, satellite newsgathering, live motor and sports coverage, portable field monitoring and video assist applications.

Unrivalled experience

DTC Broadcast Solutions come complete with Domo technology at its core and is backed by over 35 years’ reliable experience of transmitting and receiving in live broadcast environments.

HD/SD Transmitters

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## HD/SD Transmitters

### SOLO7 – OBTX Transmitter

**Features:**
- 3G video formats up to 1080p 60
- 4:2:2 compression option
- Integrated camera control option
- Swappable RF modules
- H.264 low delay encoding
- Industry standard DVB-T modulation for high quality and interoperability with existing systems
- Ultra low power consumption for extended field performance
- Sports & Events coverage
- News gathering
- Wireless studio camera

**Benefits:**
A compact and feature-rich COFDM digital video transmitter, specifically designed for high quality wireless link applications. With proven Domo COFDM and H.264 encoder technology at its core enabling High Definition images, the small size and ultra low power consumption give maximum operational performance. Designed to offer maximum flexibility, the unit has a variety of video input options including composite, 3G-SDI and HDMI plus true balanced audio.

The transmitter has an integrated control panel with sunlight-readable OLED display covering all major functions and has 16 user-defined presets. A wide range of swappable frequency bands are available from 200MHz to 8.5GHz. Integrated UHF band Camera Control is available as an option.

### SOLO7 – Nano HD Transmitter

**Features:**
- Ultra-low latency high profile H.264 SD and HD encoding
- Standard DVB-T or Domo Broadcast UMVL modulation for enhanced high frequency/high speed performance
- Very low power consumption, typically 6W
- Video format up to 1080p 60
- Optional 4:2:2 Chroma sampling
- Exceptionally small size: 58mm x 36mm x 16.5mm
- POV Sports and events cameras
- Drone video links
- Extreme Sports
- On board camera links
- Video Assist
- Weight: 135g

**Benefits:**
The Nano HD Transmitter enables production teams to offer viewers stunning high definition images from the heart of the action, in situations never previously possible due to equipment size and battery run-time constraints.

The small size and ultra-low power consumption make the Nano HD TX ideal for a range of applications from Point of View links to UAV drone installations, enabling true long range HD broadcasting from these increasingly popular devices for the first time. Optional lightweight, low power consumption amplifiers are also available for even greater range capability.

### SOLO7 – Nano SD Transmitter

**Features:**
- Ultra-low latency H.264 SD encoding
- Supports standard DVB-T modulation and Domo Broadcast Narrowband (2.5-MHz), Ultra Narrowband (3.25 MHz) and Ultra-X (625 kHZ) bandwidths
- Controlled via USB or RS232, can be configured by Domo Broadcast Field Controller
- Exceptionally low power consumption, typically 3.7W
- Exceptionally small size: 67mm x 68mm x 22mm
- POV Sports and events cameras
- Drone video links
- Extreme Sports
- On board camera links
- Weight: 51g

**Benefits:**
An ultra-miniature COFDM digital video transmitter designed specifically for when size & power consumption are critical such as body-worn applications. Offering several user-selectable modes that trade off image quality against range, the SOLO7 Nano Transmitter is ideal for battery powered applications requiring long term deployment, small unmanned aerial vehicles and body worn use.

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**SOL07 – HD Receiver**

**Features:**
- Small size: 145 x 95 x 40 mm (excluding cables)
- Built-in down converters (band specific)
- H.264, MPEG-4 ASP and MPEG-2 decoding
- Low power
- Fully featured 8/7/6/2.5/1.25/0.625 MHz demodulation
- Maximal Ratio Combining Diversity
- IP video streaming (RTSP and UDP)
- Internal recording to 32GB SD card (SD Narrowband only)
- Ethernet control
- Front panel control
- USB control
- AES128/AES256 decryption (optional)

**Benefits:**
- The SOL7HDRX is a compact digital diversity receiver that comes in a durable and lightweight housing.
- This product can be used both remotely and in fixed location applications. The SOL7HDRX can be made with ‘band specific’ built in down converters. Control of the SOL7HDRX is achieved via the FCON, RS232, USB or Ethernet. The product is supplied with external mains to DC supply, for fixed location use.
- It can also run from an external rechargeable battery pack for remote applications. These battery packs allow for rapid interchange, and provide approximately >5 hours continuous use battery life.
- An on-board Micro SD card enables local recording of SD Narrowband video possible. Playback and downloading of recorded video is achieved via the Ethernet interface.

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**PRORXD-1RU Broadcast Receiver Decoder**

**Features:**
- 2 or 4 way COFDM diversity – maximal ratio combining across all RF inputs for maximum sensitivity and flexibility
- Dual SD/HD MPEG2 and MPEG4 4:2:2 decoding capability – option to decode 2 HD signals simultaneously with optional HD-SDI down conversion
- Composite SD/HD-SDI, HDMI outputs plus ASI in/out
- IP streaming in/out
- B&B and Tri-Level Gen-lock supported
- News gathering/SNG vehicles
- Sports & Extreme sports coverage
- Events coverage
- Video Assist

**Benefits:**
- The excellent RF performance is complemented by an extremely flexible decoding platform, with low-delay SD and HD MPEG2 and H.264 decoding ensuring compatibility with all Domo Broadcast and most 3rd party encoders.
- An optional 2nd decoder can be enabled, allowing 2x SD or HD signals to be decoded. Multiple output formats are offered with composite and SDI outputs in SD and HD-SDI including embedded audio. ASI transport stream in/out is available and HDMI outputs are provided for use with domestic TVs.
- A comprehensive On Screen Graphical display is available for monitoring and diagnostics, which can be enabled or disabled separately on the two video outputs.

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**PRORXD-2RU Broadcast Receiver Decoder**

**Features:**
- 2,4,5 or 8 way COFDM diversity – maximal ratio combining across all RF inputs for maximum sensitivity and flexibility
- Dual SD/HD MPEG2 and MPEG4 4:2:2 decoding capability – option to decode 2 HD signals simultaneously with optional HD-SDI down conversion
- Composite SD/HD-SDI, HDMI outputs plus ASI in/out
- IP streaming in/out
- B&B and Tri-Level Gen-lock supported
- News gathering/SNG vehicles
- Central receive systems
- On board coverage
- Multi area events coverage

**Benefits:**
- The excellent RF performance is complemented by an extremely flexible decoding platform, with low-delay SD and HD MPEG2 and H.264 decoding ensuring compatibility with all Domo Broadcast and most 3rd party encoders.
- An optional 2nd decoder can be enabled, allowing 2x SD or HD signals to be decoded. Multiple output formats are offered with composite and SDI outputs in SD and HD-SDI including embedded audio. ASI transport stream in/out is available and HDMI outputs are provided for use with domestic TVs.
- A comprehensive On Screen Graphical display is available for monitoring and diagnostics, which can be enabled or disabled separately on the two video outputs.

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**SOLO7 NanoVue HD Receiver**

**Features:**
- Most compact HD receiver/monitor available
- Easy to use touch screen display
- HD-SDI output
- SD/HD MPEG2 and H.264 decoding
- Return vision Steady cam rig
- Video Assist, Film and event coverage
- Built in down converters

**Benefits:**
A fully portable digital diversity receiver ideal for Film and Video Assist or Steadicam reverse vision applications. Incorporates a high resolution, daylight viewable touch screen display with a fully compliant DVB-T 2-input COFDM receiver and SD/HD MPEG2/H.264 decoder. Includes HD-SDI out and IP streaming in/out. Clip on batteries provide approximately 4 hours run time.
SOLO8 – Software Defined Radio

Features:
- Proven DOMO H.264 encoder technology at its core
- CODFM, DVB-T and narrow band
- IP Mesh node for streaming directly from the camera
- Exceptionally small size and ultra-low power consumption
- SDI or Ethernet inputs
- VoIP return channel
- PTZ camera control
- Supports dual HD-SDI inputs
- IP Wireless News gathering
- HD COFDM links

Benefits:
- Three enclosure variants are available including:
  - Robust – a passively cooled IP66 rated enclosure ideal for outdoor or body-worn.
  - Concealment – an ultra-miniature package for integration into concealment solutions.
  - Plain – a compact higher power solution for increased range.
- The transmitter integrates an ISM band telemetry modem, supporting 433MHz or 915MHz. This allows return command control information to be sent to the SOLO8SDR unit.
- Software Defined Radio App available options are a COFDM Transmitter (SDRAPP-TX), an IP Encoder (SDRAPPENC) and IP MIMO Mesh (SDRAPP-MESH).

Broadcast IP Encoder

Features:
- Ultra low-delay H.264 high profile encoding
- IFB output for return audio
- Built-in control panel and web-browser control
- Adaptive bitrate operation (with Domo Broadcast IP Decoder)
- IP News gathering
- Events streaming
- Available as robust or rack-mount

Benefits:
- Offers a variety of connectivity options for maximum flexibility, including composite, SD/HD-SDI and HDMI video inputs. Audio input options include balanced analogue audio with switchable mic/line level and 48V phantom power for broadcast microphones, SDI embedded audio, HDMI and Bluetooth (option).
- A return audio output via a 3.5mm stereo headphone jack for camera talkback or presenter IFB is also available. With optional Bluetooth/WiFi connectivity Bluetooth can be used to transmit IFB to a wireless belt-pack, which in turn transmits presenter audio back to the unit, providing a complete wireless connection between the camera and presenter. Additionally, the built-in WiFi hotspot allows the location crew to wirelessly utilise the IP connection for access to Newsroom IT facilities, email and internet research. A USB port enables file downloads and IP connection via a 3G/4G modem.

Broadcast IP Encoder – Rack Version

Features:
- Ultra low-delay H.264 high profile encoding
- IFB output for return audio
- Built-in control panel and web-browser control
- Adaptive bitrate operation (with Domo Broadcast IP Decoder)
- Available as hand-held or rack-mount

Benefits:
- Offers a variety of connectivity options for maximum flexibility, including composite, SD/HD-SDI and HDMI video inputs. Audio input options include balanced analogue audio with switchable mic/line level and 48V phantom power for broadcast microphones, SDI embedded audio, HDMI and Bluetooth (option).
- A return audio output via a 3.5mm stereo headphone jack for camera talkback or presenter IFB is also available. With optional Bluetooth/WiFi connectivity Bluetooth can be used to transmit IFB to a wireless belt-pack, which in turn transmits presenter audio back to the unit, providing a complete wireless connection between the camera and presenter. Additionally, the built-in WiFi hotspot allows the location crew to wirelessly utilise the IP connection for access to Newsroom IT facilities, email and internet research. A USB port enables file downloads and IP connection via a 3G/4G modem.
NETNode IP Mesh Phase 5

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**Features:**
- Self-forming, self-healing mesh architecture makes it ideal for use for wide area coverage & multi-hop, mobile application
- Robotic systems
- >25Mb/s of IP data is possible
- Mission Commander compatible
- Entire mesh can operate in a selectable bandwidth of between 2.5MHz and 10MHz
- IP back haul/central receive systems
- Wide area mesh infrastructure node

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**Benefits:**
The latest breakthrough in mesh technology from DTC offers MIMO options that almost double the IP throughput and provides twice as much output power, increasing range.

Control of the deployed mesh is achieved using the in-built web browser or comprehensive Mission Commander PC application. This software is used to configure and monitor the mesh and wider DTC broadcast systems.

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NETNode IP Mesh Phase 5

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**Features:**
- Provides over 16Mb/s of IP data Occupies just 2.5 MHz of bandwidth (3.0, 3.5, 5.0and 6MHz)
- Offers excellent RF penetration and multipath performance
- Node is frequency band specific and includes two internal amplifiers (2W)
- Optional AES128 or AES256 encryption
- IP back haul Mesh node
- Sports events – The Boat Race
- Wide area coverage

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**Benefits:**
The Multiple Input/Multiple Output MIMO node is the latest breakthrough in Domo Broadcast’s mesh technology, offering multiple transmit and receive antennas. These can transmit extra data on the same frequency by overlaying two signals in the space of one, providing a gain in either power or diversity. The highly flexible mesh topology means data can be exchanged between nodes in a point-to-point or a multi-point fashion. The range can be extended by using nodes as repeaters. The self-forming, self-healing mesh makes the NETNode ideal for use in mobile broadcasting, command and control or advanced robotics.

Control is achieved using an inbuilt web browser or comprehensive Mission Commander PC application.

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NETNode IP Mesh

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**Features:**
- Up to 16 IP Mesh radios can be combined into a mobile network.
- Occupies from just 2.50MHz of bandwidth (3.00, 3.50,5.00 and 6.00MHz also available)
- Provides over 6.0Mb/s of IP data (depending on mode, number of nodes and range between nodes)
- Frequencies from 340MHz to 6.0GHz are available in discrete bands
- 114 x 113 x 39mm, 615g
- IP67 rated
- Mission Commander PC application to configure and monitor mesh
- Body worn IP Mesh node
- Live sports production

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NETNode IP Mesh Phase 5

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**Features:**
- Body worn IP Mesh node
- Live sports production

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**Benefits:**
The Multiple Input/Multiple Output MIMO node is the latest breakthrough in Domo Broadcast’s mesh technology, offering multiple transmit and receive antennas. These can transmit extra data on the same frequency by overlaying two signals in the space of one, providing a gain in either power or diversity. The highly flexible mesh topology means data can be exchanged between nodes in a point-to-point or a multi-point fashion. The range can be extended by using nodes as repeaters. The self-forming, self-healing mesh makes the NETNode ideal for use in mobile broadcasting, command and control or advanced robotics.

Control is achieved using an inbuilt web browser or comprehensive Mission Commander PC application.
**Features:**
- Control of all major camera functions via standard camera manufacturers' OCP
- Control of up to 4 cameras via single UHF channel
- External green and red tally outputs (open collector)
- Separate indoor (IDU) and outdoor (ODU) units for flexible TX antenna location via standard twisted-pair audio cable
- Wide frequency range 403-474MHz via IDU front panel (other bands available on request)
- Phantom Power option for easy rigging of the ODU
- Optional integrated camera control receiver in Solo 7 OBTX transmitter
- Sports and OB coverage
- Wireless studio cameras

**Benefits:**
Next generation features in a rugged, easy to use ‘plug and play’ system architecture. Designed in close consultation with experienced operators, many of the undesirable features present on ‘first generation’ systems have been overcome.

The system interfaces with camera manufacturers’ standard control panels (OCPs), giving the operator complete familiarity with standard cabled systems and eliminating the need to rig separate OCPs when RF cameras are required.
NETNodeAMP Mini Robust 1W/2W Amplifier

Features:
- Bolt-on amplifier, increasing power output of NETNode Mini Robust from 100mW up to 2W
- Gives a rugged non-line-of-sight link of around 1km
- Line-of-sight operation to several kilometres
- Large variety of frequency bands
- Wider area mesh coverage

Benefits:
The NETNodeAMP is a bolt-on amplifier from Domo Broadcast, is available depending on frequency as a 1W or 2W unit, which connects directly to a NETNode Mini Robust node, thereby increasing the power output from 100mW up to 2W (33dB) for greater range requirements. The NETNodeAMP combined with the NETNode Mini Robust, provides a rugged non line-of-sight (NLOS) link of around 1km with non-directional antennas, and gives a line-of-sight (LOS) operation to several kilometres, whilst the sealed IP-66 aluminium enclosure allows the unit to be deployed in external environments for prolonged periods of time.

SOLAMP 500mW Amplifier

Features:
- Available for frequency ranges - 300 to 450MHz, 1.00 to 1.50GHz, 1.50 to 2.00GHz, 2.00 to 2.50GHz, 3.00 to 3.50GHz and 4.40-5.00GHz
- Convenient small size
- Weight: 150g
- Companion product for the SOLMTX

Benefits:
A 500mW power amplifier designed specifically to partner the Domo Broadcast SOLMTX transmitter. The ideal power amplifier for applications where space is at a premium and when additional range may be required.

SOLO – 1W Nano Amplifer

Features:
- Very low power consumption, typically 3W at 0.5W TX Power
- SMA or N-Type male and female RF in/out connectors
- Control and power interfaces use a Lemo 00 connector
- Exceptionally small size: 44mm x 31mm x 18mm
- Sports and event coverage
- Longer range News gathering applications
- On board and Drone links
- Weight: 65g

Benefits:
Ultra-miniature COFDM Power Amplifier, designed for point of view applications in live broadcasting environments requiring long term battery power.

NETNodeAMP

For further information please call: +44 (0)1489 566 750
email: solent.broadcast@domotactical.com
Very Efficient Power Amplifier (VEPA-10W)

Features:
- Frequency bands: 1.40 to 1.60GHz, 1.70 to 1.85GHz, 1.70 to 2.40GHz, 1.99 to 2.50GHz, 2.20 to 2.70GHz, 4.40-5.00GHz
- Very efficient
- High linearity
- Adjustable gain
- Local - rotary switch
- Remote control
- 9-32V DC supply voltage
- Compact and lightweight
- RF back haul links
- Helicopter applications
- Transmission to central receive systems
- On board links

Benefits:
Domo Broadcast’s Very Efficient Power Amplifier (VEPA) series is specifically designed for COFDM and other demanding modulation schemes. However, they can also be used for non-linear modulation schemes like FM. This 31W P1dB power amplifier provides up to 10 watts of COFDM power or 20 watts of FM power in a small economical package. This linear Class A power amplifier provides a maximum of 41dB of gain.

FCON – Field Controller

Features:
- In line standalone controller
- Or USB to RS232 converter
- Remote client for CryptoWizard

Benefits:
A discrete and comprehensive portable device, the Field Controller removes the need to take a PC into the field. It acts as a secure carriage mechanism for field management of encryption data. The Field Controller can also act as a remote agent for the Domo Broadcast CryptoWizard application when pre-loaded with encryption keys.
## Fibre Extenders and Down Converters

### Broadcast Down Converters

**Features:**
- Supplied in selectable high/low gain or fixed high and low gain variants
- Excellent low noise performance
- Designed for permanent outdoor deployment
- Variety of mounting kits available
- 150–850MHz output frequency
- Required on all receive applications

**Benefits:**

The Domo Broadcast standard barrel down converter is designed for permanent outdoor installations on the base of the receive antenna. Down converters can successfully drive >70M of RG59 or >130M of RG6 cable with down converted UHF signal with no loss of performance.

**Frequencies:**

<table>
<thead>
<tr>
<th>Frequency Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 – 1500MHz</td>
</tr>
<tr>
<td>1600 – 2025MHz</td>
</tr>
<tr>
<td>2025 – 2555MHz</td>
</tr>
<tr>
<td>1980 – 2700MHz</td>
</tr>
<tr>
<td>3100 – 3600MHz</td>
</tr>
<tr>
<td>4400 – 5000MHz</td>
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<tr>
<td>5500 – 6000MHz</td>
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<tr>
<td>6400 – 7000MHz</td>
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<tr>
<td>7000 – 7500MHz</td>
</tr>
<tr>
<td>8100 – 8600MHz</td>
</tr>
<tr>
<td>8400 – 8900MHz</td>
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<tr>
<td>1750 – 2380MHz</td>
</tr>
</tbody>
</table>

### SOLO Fibre – Fibre Antenna Extender System

**Features:**
- ‘One cable solution’ for radio camera receive and data control
- Location of antenna and down converter can be extended
- TAC or SMPTE cable formats
- Fibre connectors can be customised
- Splash proof head units
- Rack mountable base units
- Return camera control data line
- Wide area sports coverage
- Multi area events coverage
- Central receive systems

**Benefits:**

Domo Broadcast offers antenna fibre extension solutions, which allow prime location of receive units in outside broadcast areas for maximum monitoring flexibility.
This catalogue on Domo’s innovative Broadcast technology is part of a series of documents of our core products: Video, IP Mesh, Cellular, RDF, Tagging, Tracking & Locating and Audio solutions.

Taking broadcast to the next level

DTC’s POV camera solutions produce live, in the heart of the action, footage; working across multiple platforms including live sports broadcasting. With Domo Broadcast SOLO7 Nano HD TX technology, broadcasters and production teams can achieve stunning high definition images in situations never previously possible due to equipment size and battery run time constraints.

Get in touch:
For further information on Domo Broadcast products or solutions, please contact your Sales Account Manager or email, solent.broadcast@domotactical.com