

# PRORXD-2RU

## Professional Dual Channel Receiver and Decoder

### Overview:

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 graphical On Screen Display is available for monitoring and diagnostics, which can be enabled or disabled separately on the two video outputs.



### Features and Benefits:

Single 8-way or dual 4-way diversity COFDM receiver – maximal ratio combining across all RF inputs for maximum sensitivity and flexibility

Dual SD/HD MPEG-2 and MPEG-4 4:2:2 decoding capability – option to decode two HD signals simultaneously

Composite SD/HD-SDI, HDMI outputs plus ASI in/out  
IP streaming in/out

B&B and tri-level genlock supported

News gathering/SNG vehicles

Events coverage

Video assist

### Product information:

#### Product Includes

PRORXD	2RU Receiver
CA0512	External XLR audio cable
CA0649	External 12V 6.67A 80W desktop PSU

#### Accessory Options (sold separately)

PRORXDSRFP-2RU	Single rack front panel extender 2RU
PRORXCPLKT-2RU	PRORXD-2RU coupling kit
PRORXD-DEC2	Enable 2nd HD decoder on ProRXD receiver/ IP decoder
DCB/DCBGS	Various frequency codes are available
Antennas	Various frequencies available
CABRF	RF cable various
PRORXD-UP	2-way diversity upgrade

#### Related Documents

100167	PRORXD Broadcast Receiver User Guide
100223	PRORXD-2U-Quick-Start-Guide

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### Technical Specification:

#### Inputs

Power	XLR4 (m)
RF	BNC (50-850MHz) x 8
ASI In	BNC x 2
IFB	XLR3 (f)
Genlock	BNC
RS232 Control	9-pin D-type on optional breakout cable

#### Output

2x CBVS/SDI/HD-SDI Video	BNC x 2
HDMI	HDMI type A x 2
ASI Out	BNC
Audio	XLR3 (m), 2 x 5-pin 0B Lemo x 4
RS232 Data	9-pin D-type on optional breakout cable x 2

#### Video (dual decoding option)

Resolutions (SD)	PAL/NTSC
Resolutions (HD)	720p50, 720p59, 720p60, 1080i50, 1080i59, 1080i60, 1080p23, 1080p24, 1080p25, 1080p29, 1080p30, 1080p50, 1080p59, 1080p60, 1080psf23, 1080psf24, 1080psf25, 1080psf29, 1080psf30
Decoding mode	H.264 SD/HD 4:2:0/4:2:2 MPEG2 SD/HD 4:2:0/4:2:2 MPEG-4 Part 2 ASP (DTC proprietary)
Delay	From 15ms end-to-end (mode dependant)

#### Audio

Switchable output	Two stereo pairs of balanced analogue audio or two balanced AES/EBU (four channels) per decoder
Analogue output	Stereo pairs +18dBm (on 600 ohm) - two on XLR and two on Lemo
AES/EBU	Two stereo balanced pairs (110 ohm)
Sample rate	48KHz
Format	MPEG audio layer 1 or 2 64kbps to 384kbps

#### Ethernet

Mode	2 x 10/100 Ethernet ports
Function	Remote control via web-browser UDP/RTSP streaming over IP IP decoding

#### ASI

Mode	Byte or burst mode
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#### Data Interfaces

RS232 data output	1K2 to 115K2 baud switchable
Features	GPS data extraction

#### Control

Remote control	Network web browser control interface
Local control	Front panel display with navigation keys
On screen display	Spectrum, RX SNR, RX power

#### Physical

Dimension	W 220mm, D 320 mm, H 88mm
Weight	2.7kg

#### Power

DC input	9 to 26V reverse polarity protected
Power consumption	27-49W (down converter dependant)

#### Environment

Temperature range	-20 to +60°C
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#### Software License Code

Silver (included)	DVB-T, Video Decoder, SD Only (MPEG-2, H.264-SD), Ultra Mobile Video Link (UMVL)
Gold	Silver plus Narrowband 2.5MHz & 1.25MHz (H.264-HD & MPEG-4 ASP), Second Decoder, IP Streaming, IP Decoding
Platinum	Gold plus Narrowband 625kHz, 4:2:2

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](mailto:solent.enquiries@domotactical.com)

**DTC – Solent**  
Fusion 2, 1100 Parkway  
Solent Business Park  
Whiteley, Hampshire  
PO15 7AB, UK

T: +44 (0) 1489 566 750

**DTC – Tampa (Head Office)**  
3845 Gateway Centre Boulevard  
Suite 360  
Pinellas Park, FL  
33782, USA

T: +1 727 471 6900

**DTC – Randers**  
Haraldsvej 64B  
DK-8960  
Randers SØ  
Denmark

T: +45 8791 8100

**DTC – Singapore**  
21 Media Circle  
Infinite Studios #06-04  
Singapore  
138562

T: +65 6643 4700

**DTC – Brazil**  
Alameda Araguaia 2  
190 – Ed. CEA II – suite 1109  
Alphaville - Barueri  
São Paulo, Brazil  
06455-000

T: +55 11 2321 5055