

Image Intelligence in Real-Time



Troll's DMR series of products combines a multichannel DVB-T microwave receiver with a remote site diversity antenna controller. The combination provides a two (2) to eight (8) channel diversity receiver for remote Electronic News Gathering (ENG) or law enforcement antenna sites. The DMR processor performs video decryption, encryption, video and audio decoding for local monitoring and secure IP transport to remote control centers.

The DMR's front panel touchscreen enables live video and audio preview, control and monitoring of antennas, transmission, test and signal diagnostics. In addition, video can be viewed locally via HDMI, Ethernet or composite. DMR6000 receivers can be daisy chained together to receive multiple RF signal sources on different channels simultaneously. This passive "loop through" feature makes it possible to support multiple aircraft and ground vehicles with a single diversity antenna. DMR receivers incorporate Maximum-Ratio Combining and packet switching to "knit together" signals from different antenna panels to provide cohesive 360° coverage.

The DMR6000 interfaces directly to all Troll Systems antennas, including the A1 and A6 family of diversity panel antennas, as well as our long-range tracking antennas like the A600.

The DMR system provides remote control of the entire receive site. The modern design incorporates the latest networking technology, with extensive packet-level advances in diagnostic and test capability. A Linux operating system delivers remarkable performance while providing an Ethernet compatible platform.

Air-to-Ground Ethernet Connectivity

DMR6000 DVB-T Compliant Diversity Receiver



- Multi-channel diversity receiver
- Two to eight antenna inputs
- UDP streaming video over Ethernet
- Live video and audio preview with touchscreen control
- MPEG 2 (4:2:2) and H.264 (4:2:2) decoding
- AES 128 or 256 decryption | encryption
- 2 HDMI outputs
- Eight-port Ethernet switch
- Independent switching for external BDC's
- Redundant network support
- Optional Equipment:
 - Rack mounted power module for tracking antennas
 - 500GB internal DVR - Optional

2 to 8 Input Diversity Receiver and Remote Site Controller

DMR6000

SPECIFICATIONS

Specifications subject to change without notice.

System Properties

Interfaces

USB, HDMI, composite, Ethernet and serial

Output

UDP streaming over IP, HDMI and composite video

HDMI Video Output

1920 x 1080 resolution

Front Panel Display

5" LCD touchscreen with 800x480 resolution with audio preview

Control Modes

Touchscreen local control or remote control via serial, Ethernet or dial-up

DVR - Optional

500GB drive with approximately fourteen days of recording

Eight (8) UHF Inputs:

Precision BNC connectors

Broadband LNA with low NF (< 2dB)

Bias tees for BDC power (1 Amp per channel, individually switched)

bias tee voltage and current monitors,

Short circuit protected with LED status indicators

Eight (2-8) UHF Loop Outputs:

Loop gain up to 16dB

Multiplexer Stage:

No downstream threshold degradation

High speed 6:1 GaAs MESFET switch

Software-controlled input attenuation (0-32dB per channel)

Input Frequency Range: Input

48-940MHz

Dynamic Range:

Threshold to +15dBm

I/O and Control:

Ethernet, serial, USB ports

Display Modes:

External monitor option: HDMI and composite

Single channel - 1 of 8

Multiple channel - 2 to 8 simultaneous

Span 500KHz to 2 MHz frequency 50MHz to 950MHz

Physical Characteristics

Weight:

10 lbs. (4.6kg)

Vertical Rack Space:

2U

Dimensions (LWH):

15 x 19 x 3.5 inches (38 x 48 x 8.9 cm)

Input Power:

110-240VAC at 50/60Hz

300W Max

Temperature Range:

-25 to 60C (-13°F to 140°F)



The Data Link Experts

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