



Mobile Commander II

Rugged Handheld COFDM Receiver



The Mobile Commander II is a rugged, compact, high-performance handheld COFDM receiver, purpose-built for field operations. Engineered for broadcast engineers, installers, and technicians, it combines exceptional RF performance, robust construction, and HEVC decoding in a user-friendly package.

Featuring a bright 9-inch display and an intuitive interface, the Mobile Commander II supports DVB-T, DVB-T2, and ISDB-T reception, with AES-256 decryption available for secure applications. An HDMI video output provides direct monitoring, while a milled aluminium chassis and weather-resistant ergonomic grips ensure durability in harsh environments.

More than just a handheld receiver, the Mobile Commander II can stream video over Ethernet to remote hardware or software decoders, enabling simultaneous remote viewing by multiple users. Future development will allow the addition of cellular bonding or mesh connectivity, extending its capabilities for real-time video transmission in challenging or mobile environments.

Whether used for signal verification, field monitoring, or remote distribution, the Mobile Commander II delivers reliable performance in a professional-grade handheld COFDM receiver.

Key Features

Full DVB-T / T2 / ISDB-T compatibility: Supports multiple digital TV standards for versatile use.

Real-time COFDM analysis: Instantaneous display of MER, RSSI and constellation settings

High-resolution LCD display: 9" LCD display for clear outdoor visibility.

Live video and audio decoding using HEVC and H.264

User-friendly interface: Intuitive menu system with dedicated function buttons.

Compact, rugged design: Durable casing suitable for harsh field environments.

Up to 16 user-defined preset profiles, with lockable settings for reliability

On-screen display (OSD) for signal strength, demodulator lock, decryption, and decode status

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Mobile Commander II Handheld Receiver:

Technical Specifications	
RF Parameters	
RF Input	2 input MRC Diversity reception
Frequency Band	Dependant on hardware variant: • 2.0-2.5GHz • 3.0-3.5GHz • 4.4-5.0GHz
Tuning Step Size	1MHz* * other step sizes available upon request
Frequency Selection	• Manual selection • 16 preset channels
Demodulation	• DVB-T • ISDB-T • DVB-T2* * Licensed option
Demodulation Modes	• DVB-T: - Modulation: QPSK, 16QAM, 64QAM - FEC: 1/2, 2/3, 3/4, 5/6, 7/8 - Guard interval: 1/4, 1/8, 1/16, 1/32 • ISDB-T: - Modulation: QPSK, 16QAM, 64QAM - FEC: 1/2, 2/3, 3/4, 5/6, 7/8 - Guard interval: 1/4, 1/8, 1/16, 1/32 • DVB-T2: - Modulation: QPSK, 16QAM, 64QAM, 256QAM - FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 - Guard interval: 1/4, 1/8, 1/16, 1/32
Data Rate	• DVB-T: 4.98 to 31.7 Mbit/s (bandwidth & modulation dependent) • ISDB-T: 4.89 to 30.9 Mbit/s (bandwidth & modulation dependent)
Bandwidth	• DVB-T: 6 / 7 / 8 MHz • ISDB-T: 6 / 7 / 8 MHz • DVB-T2: 1.7 / 5 / 6 / 7 / 8 MHz
FFT Size	• DVB-T: 2K • ISDB-T: 2K • DVB-T2: 1K/2K
RF Compression Threshold	> -20 dBm

Video and Audio Parameters	
Integrated Screen	High-brightness 9-inch LCD display
Video Decoder Profiles	• HEVC (H.265) HD & SD - Main, Main 10, Main 4:2:2 10 - 4:2:0/4:2:2 8/10 bit up to 1080p60 • MPEG-4 AVC (H.264) HD & SD - Main, High, Baseline up to Level 5.2, High 10/High 4:2:2 • MPEG-2 (H.262) HD & SD - 4:2:0 8 bit, up to 1080i60
Video Outputs	HDMI
Video Formats	• 480i @ 29.97 • 576i @ 25 • 720p @ 50, 59.94, 60 • 1080i @ 50, 59.94, 60 • 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 • 1080psF @ 23.98, 24, 25, 29.97, 30
Audio Outputs	Headphone Socket
Audio Decoding	• MPEG-1 Layer II • AAC (AAC-LC and HE-AAC)
Scrambling	
Decryption	AES 128 & 256 Bit (FIPS PUB 197)
Transport Stream Processing	
IP Output	Streams MPEG-TS over UDP
User Data	Serial via USB
User Interface	• 6 button control (Soft-Programmable) • Web GUI control (Admin mode only) • Remote RS232 via USB
Physical Connectors	
Connectors	• RF Input: - 2x N-Type (female) • Power: - Locking Barrel Jack • Video Output: - HDMI Type A • Ethernet Transport Stream & Control: - 1 x LAN port, RJ45 10/100/ • Serial / RS232: - USB 2.0 Type A Socket • Audio: - 2x 3.5mm Jack Socket
Flexibility and Power Supply	
Voltage range	+10 to +28 VDC (32v option on request)
Power Consumption	< 20W

Licenses	
Optional Licenses	• CMD2-LICE-0002 - MobilCMDR2 License HEVC Decode • CMD2-LICE-0003 - MobilCMDR2 License AES Decryption • CMD2-LICE-0004 - MobilCMDR2 License DVB-T2 Demod
Physical & Environmental	
Size and Weight	• Size: - 313mm (W) x 160mm (H) x 45.6mm (D) (70mm depth if battery adapter included) • Weight: - 1.5kgs / 3.3lbs
Environmental	• Operating Temperature: -20° to +50°C ambient (-4° to 122°F) • Storage: -40° to +80°C (-40° to 176°F) • Humidity: 0 to 95% non-condensing
Hardware Options	
Hardware Options	• CMD2-ASSY-7001 - 2.0-2.5GHz IDX • CMD2-ASSY-7002 - 2.0-2.5GHz Anton Bauer • CMD2-ASSY-7003 - 4.4-5.0GHz IDX • CMD2-ASSY-7004 - 4.4-5.0GHz Anton Bauer • CMD2-ASSY-7005 - 3.0-3.5GHz IDX • CMD2-ASSY-7006 - 3.0-3.5GHz Anton Bauer

Notes:

- Some features specified are available via optional licenses.
- Not all decoder interface options are concurrently available.
- We reserve the right to change specifications at any time without prior notice.

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