

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

Mobile Commander II: Technical Specification



RF Performance:

Model Number	Frequency (GHz)	Feature
CMD2-ASSY-7001	2.0-2.5 GHz	HEVC IDX
CMD2-ASSY-7002	2.0-2.5 GHz	HEVC Anton Bauer
CMD2-ASSY-7003	4.4-5.0 GHz	HEVC IDX
CMD2-ASSY-7004	4.4-5.0 GHz	HEVC Anton Bauer
CMD2-ASSY-7005	3.0-3.5 GHz	HEVC IDX
CMD2-ASSY-7006	3.0-3.5 GHz	HEVC Anton Bauer
CMD2-ASSY-RK01		Runway kit

Other frequencies available upon request

Features

Tuning step size	250 kHz step size as standard; others available upon request
Frequency selection	Manual selection and 16 preset channels
Modulation	DVB-T2*, DVB-T, ISDB-T* * <i>Licensable</i>
Modulation Modes	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
Bandwidth	DVB-T bandwidths of 6/7/8 MHz DVB-T2 bandwidths of 1.7/5/6/7/8 MHz ISDB-T 5/6/7 MHz
FFT Size	DVB-T 2K DVB-T2 1K/2K ISDB-T 2K

Diversity

MRC	2 input maximum ratio combining
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Video and Audio Parameters

Video CODEC Profiles Supported	HEVC (H.265), HD & SD; <i>UHD (future implementation)</i> <ul style="list-style-type: none"> Main, Main 10, Main 4:2:2 10 MPEG-4 AVC (H.264) HD & SD <ul style="list-style-type: none"> Main, High, Baseline up to Level 5.2, High 10/High 4:2:2 MPEG-2 (H.262) HD & SD <ul style="list-style-type: none"> 4:2:0 8 bit, up to 1080i60
Video Output	HDMI SDI
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 2160p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 - <i>future implementation</i>
Audio Standard	MPEG-1 Layer II AAC (AAC-LC and HE-AAC)
Audio Output	Embedded via headphone socket

Mobile Commander II: Technical Specification

System

Control	6 button control (soft-programmable) Remote RS232 via USB Web GUI
Low Latency Out	3 frames standard
Decryption (optional)	AES block cipher, supporting key sizes of 128 or 256-bit (FIPS PUB 197)
Ethernet	Streams MPEG-TS over UDP Web control
User Data	Serial via USB

Power Requirements

Input Range	+10 to +18 VDC (32v option on request)
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Environmental

Temperature Range	Full specification: -20° to +50°C ambient (-4° to 122°F) Storage: -40° to +80°C (-40° to 176°F) Humidity: 0 to 95% non-condensing
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Physical

Size	313mm (W) x 160mm (H) x 45.6mm (D) 70mm depth if battery adapter included
Weight	1.5kgs / 3.3lbs

Connectors

Location	Signal	Connectors
Side	Power RS232 via USB adapter Intercom Power	2.5mm power jack USB 2.0 Type A socket 3.5mm jack Switch
Rear	Ethernet/remote 3G SDI SD/HD Video Serial / RS232 Analogue Audio	RJ-45 BNC HDMI USB 2.0 Type A Socket 3.5mm jack
Top	RF Connector	N type female / TNC female <i>(variant dependent)</i>