L3HARRIS®
FAST. FORWARD.

HANDHELD TACTICAL ROVER® RADIOS PRODUCT FAMILY COMPARISON

Delivering wideband reliable and secure communications to the tactical edge

The L3Harris family of handheld TACTICAL ROVER products provide encrypted digital and analog video capabilities with aircraft and sensor positional data directly to the dismounted user for real-time Situational Awareness.

INTERNATIONAL COALITION INTEROPERABILITY

The TACTICAL ROVER radio family of products includes a variety of handheld configurations, providing situational awareness to dismounted users of each coalition nation[1]

> The TNR 2e is suitable for US and FV-EY use, employing NATO/U.S. waveforms and the KIV 700A crypto core; AES encryption is included

> The TNRe and TACe radios are also intended for US and FV-EY use, employing the NATO/U.S. waveforms and legacy Type 1 encryption; AES encryption is included

> The TNR and TACp are for use by US/FV-EY and NATO/coalition nations, employing the NATO/U.S. waveforms and AES encryption

> The TNRx radio is meant for use by any exportable nation, employing International Waveforms and AES encryption

Use of U.S. DoD visual information does not imply or constitute DoD endorsement.

Unprecedented Situational Awareness to dismounted ground troops

KEY FEATURES

> Capable of Rx/Tx across all VDL waveforms

> Rapidly configurable to all mission sets

> Full spectrum of encryption types to meet the needs of every customer

TNR 2e   TNRe   TACe

TNR   TNRx   TACp

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SPECIFICATIONS

FEATURE	TNR 2e	TNRe	TACe	TNR	TNRx	TACp
Exportability						
Intended User Nations	US/FV-EY			US/FV-EY and NATO/Coalition	Any Exportable Nation	US/FV-EY and NATO/Coalition
Frequency Bands						
UHF	225 to 512 MHz (Rx only), 1.0 kHz steps	400 to 470 MHz (Rx only), 1.0 kHz steps			N/A	
L-Band	1625 to 1850 MHz (Tx/Rx), 0.25 MHz steps	1625 to 1850 MHz (Tx/Rx), 0.5 MHz steps	1625 to 1850 MHz (Rx only), 0.5 MHz steps	1625 to 1850 MHz (Tx/Rx), 0.5 MHz steps		1625 to 1850 MHz (Rx only), 0.5 MHz steps
S-Band	2025 to 2110 MHz and 2200 to 2500 MHz (Tx/Rx), 0.25 MHz steps	2200 to 2500 MHz (Tx/Rx), 0.5 MHz steps	2200 to 2500 MHz (Rx only), 0.5 MHz steps	2200 to 2500 MHz (Tx/Rx), 0.5 MHz steps		2200 to 2500 MHz (Rx only), 0.5 MHz steps
C-Band	4400 to 4950 MHz and 5250 to 5850 MHz (Rx only), 1.0 MHz steps	4400 to 4940 MHz and 5250 to 5850 MHz (Rx only), 1.0 MHz steps				
Ku-Band[1]	14.40 to 14.83 GHz and 15.15 to 15.35 GHz (Rx only), 1.0 MHz steps					
General Capabilities						
Size (excluding antennas, connectors, and battery)	2.3"(w) x 7.3" (h) x 3.0" (d)	2.7"(w) x 7.3" (h) x 1.8" (d)	2.7"(w) x 6.5" (h) x 1.9" (d)	2.7"(w) x 7.3" (h) x 1.8" (d)		3.0" (w) x 6.6" (h) x 1.5" (d)
Weight (transceiver only)	< 2.5 lb.	< 1.7 lb.	< 1.5 lb.	< 2.5 lb.		< 1.1 lb.
Power	11–13 VDC, < 11 W (Rx), < 27.5 W (Tx/Rx)	11–13 VDC, < 8.2 W (Rx), < 72 W (Tx/Rx)	9–16 VDC, < 6.5 W	11–13 VDC, < 8.2 W (Rx), < 72 W (Tx/Rx)		9–16 VDC, ~6 W
Video (decode only)	H.261, H.264, MPEG-2, MPEG-4, MJPEG, Analog NTSC/RS-170				H.264, MPEG-2, MPEG-4, MJPEG	H.261, H.264, MPEG-2, MPEG-4, MJPEG, Analog NTSC/RS-170
Encryption	KIV 700A Cryptographic Core Modernization, 256-bit AES	Legacy Type 1, 256-bit AES		256-bit AES		256-bit AES, Triple DES
Waveforms Supported	**DDL, DVB-T, Tactical** (1.6, 3.2, and 6.4 Mbps) **BE-CDL** (Modes 1-6, 101-105, up to 10 Mbps, **CDL** (2.0 and 10.71 Mbps) **Tactical BR-455, 466ER, VNW** (50 kbps to 5 Mbps) **FM Analog**	**DDL, DVB-T, Tactical** (1.6, 3.2, and 6.4 Mbps) **BE-CDL** (Modes 1-6, up to 10 Mbps) **CDL** (2.0 and 10.71 Mbps) **Tactical BR-455, 466ER VNW** (50 kbps to 5 Mbps) **FM Analog**	**DDL, Tactical** (1.6, 3.2, and 6.4 Mbps) **CDL** (2.0 and 10.71 Mbps) **BE-CDL** (Modes 1-6, 9-11, 101-105, up to 10 Mbps) **Tactical BR-455,466ER VNW** (0.05, 0.10, 0.30, 0.50, 0.60, 0.76, 1.2, 2.5, 4.0, 5.0 Mbps) **FM Analog**	**DDL, DVB-T, Tactical** (1.6, 3.2, and 6.4 Mbps) **BE-CDL** (Modes 1-6, 101, and 102, up to 10 Mbps) **CDL** (2.0 and 10.71 Mbps) **Tactical BR-455, 466ER VNW** (50 kbps to 5 Mbps) **International Waveforms** (0.4, 0.75, 1.5, 3.0, 3.5, 6.0, 10.0 Mbps) **FM Analog**	**International Waveforms** (0.4, 0.75, 1.5, 3.0, 3.5, 6.0, 10.0 Mbps)	**DDL, DVB-T, Tactical** (1.6, 3.2, and 6.4 Mbps) **CDL** (2.0 and 10.71 Mbps) **Tactical BR-455,466ER VNW** (0.05, 0.10, 0.30, 0.50, 0.60, 0.76, 1.2, 2.5, 4.0, 5.0 Mbps) **FM Analog**
Compatible Displays	Head-mounted displays, Wrist-mounted displays, PCs, Android™-compatible displays					
Software-Programmable Receiver	User on-screen display, Pre-mission configurations, Signal and Waveform search	Waveform search				
External Interfaces	Ethernet, USB 2.0, Analog NTSC/RS-170 (≥ 28.75dBm RF output at L- and S-Bands), RS-232 GPS (DAGR and NMEA), RS-485 AES SKL, VOIP audio, Crypto fill connector, Power connector (AN/PRC-148 or AN/PRC-152 battery)	Ethernet, USB 2.0, Analog NTSC/RS-170 (≥ 28.75dBm RF output at L- and S-Bands), Crypto fill connector, Power connector (AN/PRC-148 or AN/PRC-152 battery)	Ethernet, USB 2.0, TNC for RF input, BNC for RS-170, Power connector (AN/PRC-148 or AN/PRC-152 battery)	Ethernet, USB 2.0, Analog NTSC/RS-170 (≥ 28.75dBm RF output at L- and S-Bands), Crypto fill connector, Power connector (AN/PRC-148 or AN/PRC-152 battery)		Ethernet, TNC for RF input, BNC for RS-170, Power connector (AN/PRC-148 or AN/PRC-152 battery)

1. External adapter is needed to receive in Ku-band

These item(s)/data have been reviewed in accordance with the International Traffic in Arms Regulations (ITAR), 22 CFR part 120.11, and the Export Administration Regulations (EAR), 15 CFR 734(3)(b)(3), and may be released without export restrictions.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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