

## AN/PRS-11

### Global Broadcast Service (GBS), Suitcase Portable Receive Suite (SPRS)



#### AN/PRS-11 FEATURES:

- Lightweight, Portable
- Ops Proven, Battle Tested
- Deploy, Power, Acquire
- Modem Agnostic
- Simple, Intuitive User Interface
- Minimal User Training Required
- Receives DVB-S/S2 Multi-Cast FMV, ISR
- Receives In-Theatre DVB-RCS Network Broadcast
- Airline Checkable

The AQYR AN/PRS-11 was originally developed under the Air Force SBIR program and won a 2007 Defense Acquisition Challenge award sponsored by SPAWAR.

The GBS portable receive suite revolutionizes the way warfighters operate. It brings command center information to the operational combat teams or to the individual warfighter where they need it most.

The ultra-lightweight, compact design delivers much needed capabilities to support full-spectrum operations. The system operates over military-owned Ka-Band satellites, which provide both low cost (no satellite access fees) and incredibly wide bandwidth over Worldwide Global SATCOM (WGS) satellites. The rapid set up, short signal acquisition time, and simple user interface enables warfighters to deliver precision strikes to the enemy while negotiating dangerous non-linear battlefields.

Built combat tough, the portable GBS receive suite is modular and scalable making it adaptable for operations specific to any mission, as well as ongoing operations outside-the-wire. It is ideal for use in low-visibility or urban terrain operations where traditional satellite dish technology is too high-profile. The AN/PRS-11 is compatible with HAIPE devices and supports Type 1 encryption. The AN/PRS-11 supports up to Top Secret communications, for information to keep teams safe and reduce collateral damage.

The AN/PRS-11 Portable GBS Receive Suite by AQYR is the new combat force multiplier. It contributes to combat team modernization, helps the warfighter with situational awareness to dominate terrain and win battles, but more importantly, it improves survivability by delivering unparalleled bandwidth for Intelligence, Surveillance, Reconnaissance (ISR) and Full Motion Video (FMV).

## AN/PRS-11 Specifications

### AN/PRS-11 Suitcase Portable Receive Suite (SPRS) contains:



Suitcase Portable Receive Terminal (SPRT) & Accessory Bag



Suitcase Portable Receive Broadcast Manager (SPRBM)

Receive Broadcast Manager includes CF-31 laptop, tested with the latest version of software. Power conversion interface cables, and other miscellaneous cables.

<b>Size:</b>	19" Length x 11" Width x 8" Height (Stowed)
<b>Weight:</b>	31 lbs (14.06 kg) Suitcase Portable Receive Suite tactical carry weight
<b>Environmental Testing:</b>	to MIL-STD-810F
Operating	-20.2°F to 140°F (-29°C to 60°C)
Storage	-40°F to 160°F (-40°C to 71.1°C)
Drop	26 drops from 48 in (1.22 m), (not in transit case)
Vibration	Method 514.5C-17, Procedure II
Loose Cargo	Method 514.5, Procedure II
Sand & Dust	Method 510.4, Procedure I & II
Water	Method 506.4, Procedure I
Humidity	95% RH, temp cycle 68°F to 140°F (20°C to 60°C)
Altitude	15,000 ft (4572 m)
Solar	140°F (49°C) + solar loading
<b>Operation:</b>	
G/T	12.3 dBK
Capability	DVB-S (ETS 300421) & DVB-S2 (EN 302 307) demodulator and FEC decoder compliant <ul style="list-style-type: none"> <li>Fully compliant DVB/MPE &amp; PES, IP, MPEG-2</li> <li>Unicast, Multicast, Broadcast Routing and Bridging</li> </ul>
Performance	DBV-S2: QPSK & 8PSK modulations, 0.1 - 45 Msps <ul style="list-style-type: none"> <li>DVB-S: QPSK modulation, 0.1 - 45 Msps (tested up to 51.8 Mbauds)</li> <li>IEEE802.3 10/100 Mbps IP interface</li> </ul>
LNB Gain	55 dB
LNB Noise Figure	1.3 dBNF
LNB Noise Temp	110.3 K
Antenna Gain	36.2 dBi
Antenna Noise Temp	130.6 K
Setup Time	Less than 2 minutes (typical)
Acquisition Time	Less than 2 minutes (typical)
<b>Power:</b>	DC Input 24 VDC, AC input 100 - 240 VAC 50/60 Hz
<b>Options:</b>	*Ka-Band 60cm Dish Accessory Kit, provides a 275% increase in signal gain -4.5dB.

*\*Available through commercial purchase only.*

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