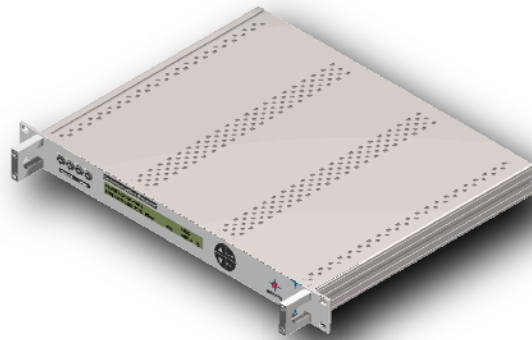
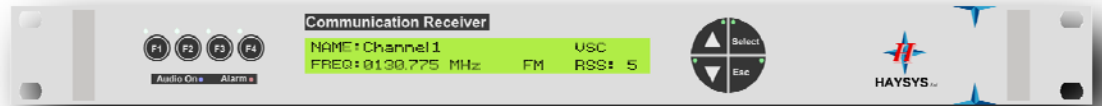


# COMMUNICATION RECEIVER HDF-0032



## COMMUNICATION RECEIVER

High end Professional 1U 19" Rack mounted multi-channel communication receiver.

Available for operation in the UHF or VHF frequency bands (other bands also available).

Demodulating AM or FM signals.

## LOCAL CONTROL

Local operation using intuitive front panel menu system allowing full control and monitoring of all common functions including four programmable favorite keys.

## REMOTE CONTROL

Supplied with remote operation software allowing full control and monitoring over either Ethernet or RS232 serial connectivity.

## RECEIVER NAMING

Each Receiver can be uniquely named assisting in receiver arrays

- Multi-Channel Communication Receiver available for the UHF or VHF Frequency Bands
- Integrates perfectly into the HAYSYS Direction Finding system
- Local and Remote Monitoring and Control
- Continuous integrity testing with visible alarms provided both locally and remotely.
- Communications using TCP/IP (Ethernet) or Serial RS-232
- Suitable for Receiver array configurations
- Conforms to ICAO Annex 10, Vol III Part 2

The HAYSYS Communication Receiver is a high end professional radio receiver. Primarily for use in ground aeronautical UHF/VHF receiver applications, the high level of functionality provides the ability to make the unit suitable for a wide range of applications.

A multi-channel receiver with an intuitive front panel menu system and a highly effective remote control HMI application for use on computers running Microsoft Windows® operating systems

Voice Squelch Control (VSC) opens the squelch only when a modulated signal is detected and ignores unmodulated beat noise.

Quickly scan through a band at a 60 channel per second scan rate.

IF filter selection for changing IF filter width.

Custom frequency ranges are available to cover a wide range of frequency requirements.

Receiver control is achieved through custom software. All control, monitoring and configuration can be accessed via the remote software application.

Local monitoring and limited configuration of the Receiver can be navigated via the units menu system and large display.

The unit is a single 1U standard 19" sub-rack unit with all connection being made on the rear panel. All remote communication, configuration and monitoring are implemented remotely.

An Alarm and Audio On signals are indicated using dedicated front panel LED's

Received Signal Strength (RSS) indication



# Specifications

Receiver Type	Triple-Conversion Super Heterodyne
RF Operating Frequency	118-137 MHz (VHF) and 225-400MHz (UHF)
Frequency Modes	FM or AM (selectable)
Channel Separation	25kHz or 12.5kHz (selectable)
Frequency Stability	<±3 ppm at 25°C
Intermediate Frequencies	
1 <sup>st</sup>	266.70 MHz
2 <sup>nd</sup>	10.70 MHz
3 <sup>rd</sup>	450 KHz
FM Sensitivity	FM <1µV
AM Sensitivity	AM <2.5µV
Selectivity (typical)	-6dB
Antenna Impedance	50Ω
Audio Output (Balanced 600Ω optional)	> 500mW at 10% distortion with an 8Ω load
Display	40 x 2 Character LCD
Display Indicators	Receiver Name, Frequency, Mode, RSS, Alarms and Activity Indicator
LED Indicators	Audio In and Alarm
Operating Temperature Range	-10°C to +60°C
Size	Standard 1U 19" Rack
Weight	2Kgs
Interfaces	1x Ethernet Interface 1x RS-232 serial interface 1x Audio Interface 1x BNC RF connector

## QUICK SCAN

The ability to Scan the frequency band at 60 Channels per second.

## ADVANCED SQUELCH

Ignoring un-modulated signals or beat noise and only opening the squelch when a modulated signal is detected.

## CUSTOMIZE

Customer specific applications may require a frequency range, outside the VHF/UHF bands. The receiver can be customized to suit the customer's requirements..

Please contact HAYSYS for more information

## Contact Details:

7 Deryn Court,  
Pentwyn Business Centre,  
Wharfedale Road,  
Pentwyn,  
Cardiff  
CF23 7HA.

Tel: +44 (0)29 20 736276  
Fax: +44 (0)29 20 735949  
Web: [www.haysys.co.uk](http://www.haysys.co.uk)  
Email: [info@haysys.co.uk](mailto:info@haysys.co.uk)

