



# Launch Amplifier

## INSTRUCTION MANUAL

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**WATS-517 | WATS-530**



**[www.whytetechnologies.com](http://www.whytetechnologies.com)**

In the interest of continuous improvement,  
all specifications of products within this brochure are  
subject to change without notice.

## SAFETY

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The Multiswitches are intended for indoor use only.  
Do not install the Multiswitch in damp, humid, hot or dusty areas.

Switch off and remove the power supply when making connections to the Multiswitch to avoid damaging the unit.

Always earth bond the Multiswitch using the Earth Bonding Lug and/or the Earth Terminal Bars to a suitable earth bonding point using minimum 4mm<sup>2</sup> diameter earth cable.

## PRECAUTIONS

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To ensure trouble free operation:

Do not remove the cover of the Multiswitch or disassemble it as this will invalidate the guarantee.

The female F connectors on this unit were designed for use with '100' type coaxial cable with a centre core diameter of 1mm<sup>2</sup>. When using larger CT125 or CT167 cables, you must ensure that suitable F connectors with reducing pins are used otherwise damage to the unit will occur which will invalidate the guarantee.

Do not over tighten the F connectors (finger tight only).

## GUARANTEE

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All Whyte products are guaranteed for a period of 4 years from the date of purchase against defects. Within this guarantee period, Whyte Technologies will repair or replace the faulty product. In the unlikely event, please return any faulty products to your dealer.

The Guarantee will be deemed as void if the serial number on the product is removed, damaged or illegible. The Guarantee excludes defects caused by incorrect use, accidental damage, disassembly, water/fire/lightning damage or lack of ventilation.

## GENERAL DESCRIPTION

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The Whyte Series 5 Launch Amplifier range are compact and designed to be universally flexible. They can be used in small, medium and large Integrated Reception Systems (IRS).

All Whyte Series 5 Launch Amplifiers may be utilised as Launch Amplifiers or Line Amplifiers depending on the specific IRS system design requirements.

## TECHNICAL DESCRIPTION

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Whyte Series 5 Launch Amplifiers can be powered directly via the 18V Auxiliary Input or may be line powered via the SAT input or output trunk lines. A Whyte Power Supply Unit may be connected to the 18V Auxiliary Input which will pass power upwards and downwards via the HL and HH lines. All IF trunk lines are DC passing. The IF inputs provide power to the LNB irrespective of whether they are powered locally or line powered.

A switchable 12V supply is provided to power a Mast Amplifier if required. If a Mast Amplifier is not present this should be left in the off position.

There are 2 models available in the Whyte Series 5 Launch Amplifier Range; WATS-530 and WATS-517 are summarised as follows (see technical specifications for further details).

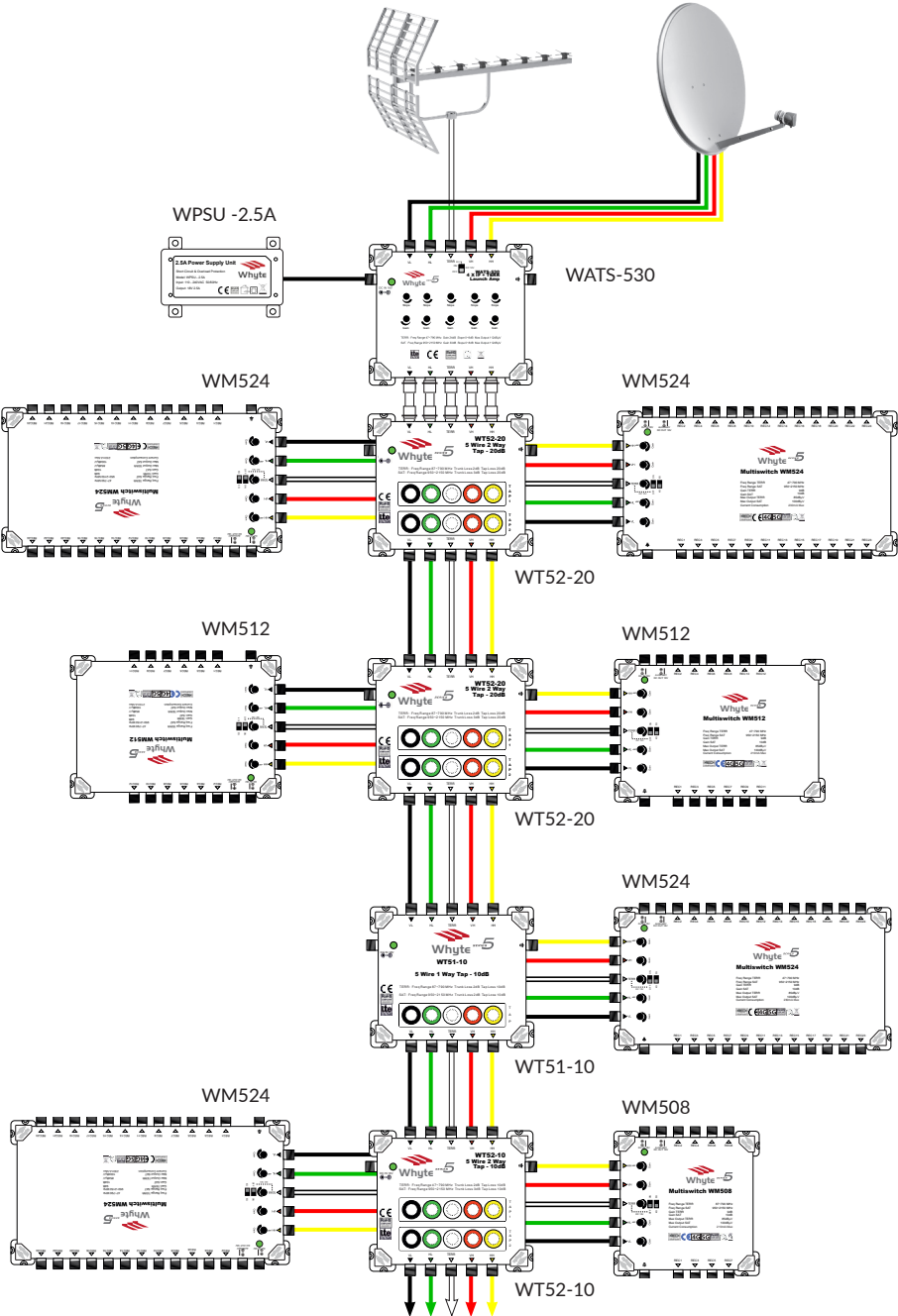
### WATS-530

- SAT Gain 30dB TERR Gain 24dB
- SAT & TERR Gain Controls
- SAT & TERR Slope Controls

### WATS-517

- SAT Gain 17dB TERR Gain 13dB
- SAT & TERR Gain Controls
- SAT & TERR Slope Controls

EXAMPLE CONFIGURATION

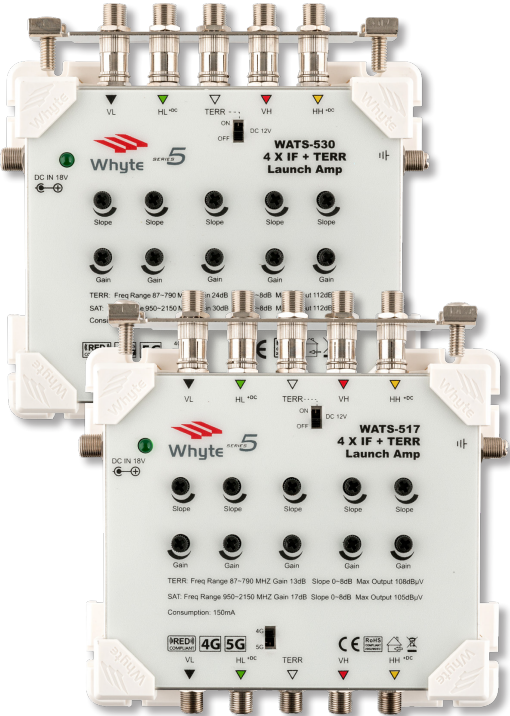


SPECIFICATION

- 4 Years Warranty
- RED Compliant
- Gain Control on all inputs
- Slope Control on all inputs
- Comes with input Earth Bar
- 4G/5G Selectable filters
- Colour coded inputs & outputs
- Switchable 12V DC Supply to Terrestrial input
- SAT GAIN 30dB TERR GAIN 24dB (WATS-530)
- SAT GAIN 17dB TERR GAIN 13dB (WATS-517)
- 18V Auxiliary Input injects power to the HL & HH trunk lines

The RED Compliant Whyte Series 5 Launch Amplifiers are compact and powerful and may be utilised as Launch Amplifiers or Line Amplifiers. They can be powered directly via the 18V Auxiliary Input or line powered via the HH and HL trunk lines.

This range of RED Compliant Launch Amplifiers come complete with a selectable 4G/5G filter, whilst gain and slope control all inputs makes commissioning easy.



RED  
COMPLIANT

MODEL		WATS-517	WATS-530
Frequency	SAT	950-2150MHz	950-2150MHz
	TERR	87-790MHz	87-790MHz
Inputs (F-Type Connector)		4 SAT + 1 TERR	4 SAT + 1 TERR
Outputs (F-Type Connector)		4 SAT + 1 TERR	4 SAT + 1 TERR
Gain	SAT	>17dB	>30dB
	TERR	>13dB	>24dB
Gain Control	SAT	10dB±2dB	15dB±2dB
	TERR	10dB±2dB	10dB±2dB
Slope Control	SAT	8dB±1dB	8dB±2dB
	TERR	8dB±1dB	8dB±2dB
4G/5G Filter (switchable)		YES	YES
TERR 12V DC Supply (switchable)		100mA	100mA
Input/Output Return Loss	SAT	>8dB	>8dB
	TERR	>8dB	>8dB
Max Output Level	SAT (IMA <sup>-1</sup> -35dB) EN50083-3	105dBµV	112dBµV
	TERR (IMA <sup>-1</sup> -60dB) EN50083-5	108dBµV	112dBµV
LNB Power Supply Max		2A	2A
Trunk DC Pass	SAT (per trunk)	YES 2A Max	YES 2A Max
	TERR	NO	NO
Powering	Via DC In	YES	YES
	Via SAT Trunks (HL + HH)	YES (HL + HH)	YES (HL + HH)
Input Earth Terminal Bar		YES	YES
Earth Lug (F-Type connector with clamp)		Up to 6mm <sup>2</sup> core	Up to 6mm <sup>2</sup> core
Power Indication		LED	LED
Power Consumption		150mA Max	290mA Max
Dimensions including Earth Bars W x L x H (mm)		158 x 154 x 43	158 x 154 x 43
	Weight	470g	470g

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