



Quick Start Operation and Installation Guide

MPR Series

Multi-Purpose Receiver



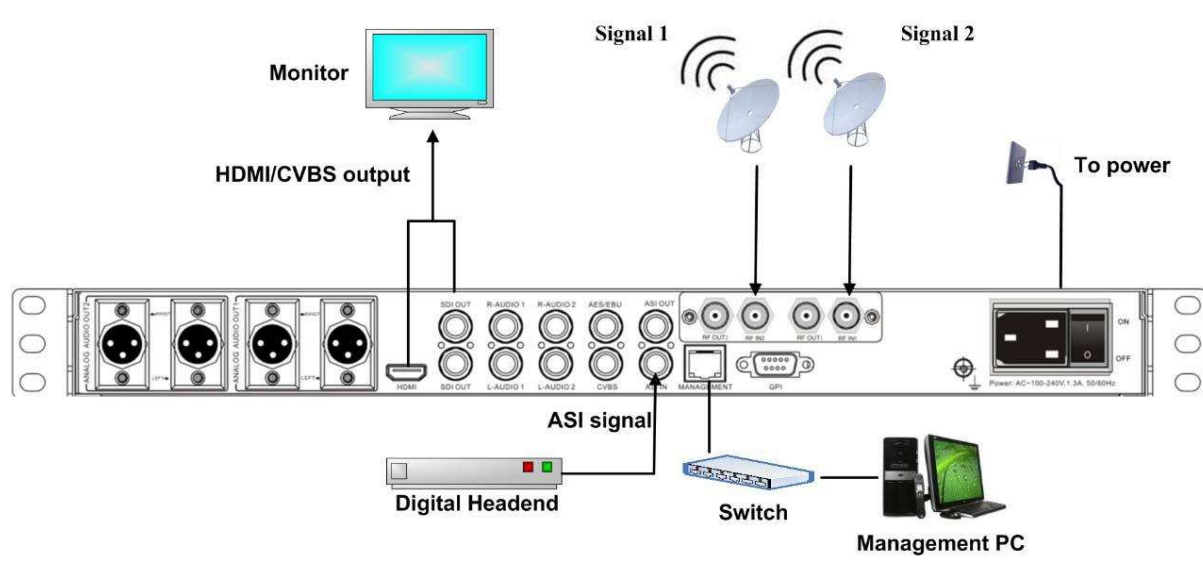
Contents

Revision	2
Quick Start - Getting Started Guide	3
Navigation Keys Operation Instruction	4
Confirm or Change the Default IP Address	4
Configuration through WEB Management	5
First Time Log On	5
Main Interface Introduction	6
Appendix 1 - Setup Example Audio Only Service (TSIMA)	7
Setting the <i>Receiver</i> RF	7
<i>Status</i> page	8
Check the CA / CAM settings	9
Select <i>Program Decryption</i>	10
Select Program	11
Appendix 2 - Setup Example VAST TV service (ABC24)	12
Setting the <i>Receiver</i> RF (single tuner models)	12
<i>Status</i> page	13
Check the CA / CAM settings	14
Select <i>Program Decryption</i> ,	15
Select Program	16

Revision

File	MPR Receiver Quick Start Guide Vr1.5.Docx
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Quick Start - Getting Started Guide



Switch on the equipment through the back power switch, the unit is powered up and start the initialization.

After power on the LCD screen is lights up, and displays information as follows



The initialization takes about 30 seconds to complete. The input/output indicator LEDs turn red after the first successful initialization because the signal is not locked. After configuration of the device, the corresponding LEDs will show the correct status.

Navigation Keys Operation Instruction

Use the 6 navigation keys on front panel: Up / Down / Left / Right / Menu / Ok to enter the configuration menu.

Enter “Menu”:

- Press “OK” button to enter main menu.

Exit Menu/Back for parent Menu

- Upon completion of configuration settings, press “OK” button until you go back to the Parent Menu.

Enter Sub-Menu

- Press OK button to enter main menu.
- Select a sub-menu by pressing UP and DOWN button.
- Press MENU button on the selected sub-menu.

To change a parameter

- Step 1: Enter main menu by pressing OK button.
- Step 2: Scroll sub-menu by pressing UP and DOWN button, and press MENU button to change the selected sub-menu.
- Step 3: To change parameter settings, press RIGHT and LEFT button to move the cursor in which change must be made.
- Press UP button and DOWN to input / select an appropriate setting, then press MENU button to save.

Confirm or Change the Default IP Address

Note DHCP is not provided (despite the menu selection)

1. check out the IP on the LCD screen.
2. use the button on the front panel to change the IP, gateway and subnet mask The gateway should be the same as the management PC's. The subnet mask should be the same as the management PC's s. The IP and the server's IP should be in the same subnet section.
3. reboot the device to take effect.
4. ping the new IP to check whether the device can connect to the management PC.

Configuration through WEB Management

First Time Log On

Configuration is best performed via a web browser.

Start a browser and browse to the set ip address of the unit. The log on page will appear



The screenshot shows a web browser window displaying the login page for the H.264 SD/HD Receiver Decoder. The page has a dark blue header with the TELEDELTA logo on the left and the title "H.264 SD/HD Receiver Decoder" on the right. Below the header, there is a central login form with two input fields: "User Name" and "Password". Below these fields are two buttons: "Clear" and "Submit".

The default User Name and Password are "admin".

If you are unable to connect check for possible reasons for unsuccessful log on:

- IP address/ network mask/gateway don't match with the management PC's
- User name/password is wrong – check the caps lock - lower case is required.
- The device is connected to the wrong interface

Main Interface Introduction

After successful log on, the following screen will display:

The screenshot shows the H.264 SD/HD Receiver Decoder web interface. The browser address bar shows the URL 192.168.15.139/index.html. The interface is divided into a left-hand menu and a main settings area. Two callout boxes labeled 'Menu 1' and 'Settings 2' point to the respective sections. The menu includes options like Status, Inputs, Outputs, Program Setup, PID Select, CA, System, Local Setup, Alarms Setup, User Management, and Preset. The settings area displays various parameters in a table format, including Receiver Lock, General Status, Stream Information, Program Information, Video, Audio, ASI Output Status, Unit Identity, Unit Versions, CI Status, and Active Alarms.

The main interface can be divided into two areas.

1. Menu: each screen shares same 6 tabs including “Status”, “Inputs”, “Outputs”, “CA”, “System” and “Reset”.
2. Settings: Configuration data for each function

Appendix 1 - Setup Example Audio Only Service (TSIMA)

Let's assume that you have a dish and LNB connected and pointed correctly and you are going after the Optus VAST TSIMA service

Setting the Receiver RF

The screenshot shows the TELEDELTA receiver web interface. The top navigation bar includes the TELEDELTA logo and the text 'H.264 SD/HD Recei'. The left sidebar contains a menu with options like Status, Inputs, Receiver, Outputs, Program Setup, Program Decryption, PID Select, CA, System, Local Setup, Alarms Setup, User Management, Preset, and Upgrade. The main content area is divided into 'Source Select' and 'Source Config' sections. The 'Source Select' section has a dropdown menu set to 'Tuner1'. The 'Source Config' section has three dropdown menus: 'RF Auto-Switch' set to 'Disable', 'ASI Auto-Input' set to 'Disable', and 'Source Standard' set to 'DVB'. Below this are two tuner configuration sections, 'Tuner1' and 'Tuner2'. The 'Tuner1' section has the following settings: Frequency Range (Ku Band), Satellite Frequency [MHz]: [10700,12750] (11803), SymbolRate [KBaud] (30000), LNB Power Supply (13V(V)), LNB 22KHz (OFF(Low Band)), LNB L.O. Type (Ku Band), and LNB L.O. Frequency [MHz]: [8500,13000] (10700). The 'Tuner2' section has: Frequency Range (C Band), Satellite Frequency [MHz]: [3200,4800] (3840), SymbolRate [KBaud] (27500), LNB Power Supply (OFF), LNB 22KHz (OFF(Low Band)), LNB L.O. Type (C Band), and LNB L.O. Frequency [MHz]: [5000,6000] (5150). At the bottom right are 'Submit' and 'Refresh' buttons. A blue callout box labeled 'Select' points to the Source Select dropdown. Another blue callout box points to the LNB Power Supply dropdown, which is set to '13V(V)'. A third blue callout box contains the text: 'Optus C1/D3 156E, use 13V for standard Vertical'.

“Zoomed In” version for TSIMA as At Oct 2013

The zoomed-in screenshot shows the 'Tuner1' configuration section. It contains the following settings: Frequency Range (Ku Band), Satellite Frequency [MHz]: [10700,12750] (11803), SymbolRate [KBaud] (30000), LNB Power Supply (13V(V)), LNB 22KHz (OFF(Low Band)), LNB L.O. Type (Ku Band), and LNB L.O. Frequency [MHz]: [8500,13000] (10700).

Note: Adjust your LNB L.O. Frequency to suit (if required)

Status page

If all these settings are correct the receiver will lock and the Status page will look similar to this:

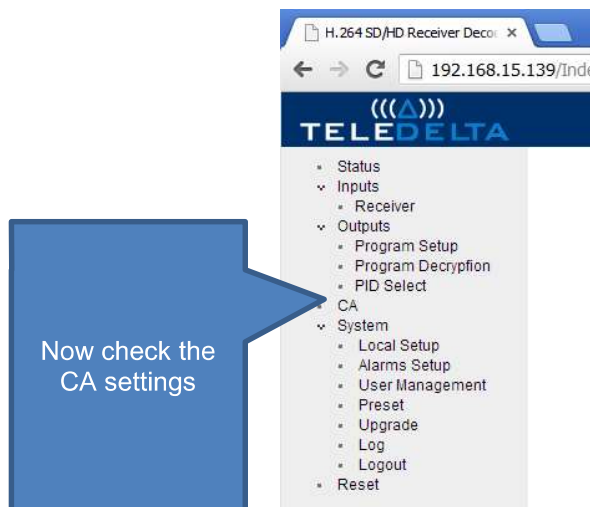
- Check for a lock

The screenshot shows the 'Status' page of the receiver. A blue callout box with a white border points to the 'Receiver Lock' field, which contains the word 'Lock' in green text. The page is organized into several sections:

- General Status:**
 - Receiver Lock: Lock (green)
 - Active Alarm: NO
 - Selected Source: Tuner1
- RF 1:**
 - BER/PER: 0*100
 - C/N [dBc]: 11.40
 - RFLevel [dBm]: -47
 - Frequency Tune [MHz]: 1102.70
 - Frequency Offset [KHz]: -300
 - FEC: 8PSK 3/5
- RF 2:**
 - BER/PER: N/A
 - C/N [dBc]: N/A
 - RFLevel [dBm]: N/A
 - Frequency Tune [MHz]: N/A
 - Frequency Offset [KHz]: N/A
 - FEC: N/A
- Stream Information:**
 - Transport Stream Rate [Mbps]: 19
 - Transport Stream ID: 4
 - Original Network ID: 4095
 - Stream Date and Time: 6-Nov-2013 6:31:55
- TS Status:**
 - Rate [Mbps]: 19
 - TS Effective Rate [Mbps]: 44.86
- Program Information:**
 - Program Name: TSIMA
 - Program ID: 922
 - Program Type: Digital Radio Sound Service
 - CAS/FTA: CAS
- Video:**
 - Decoding Errors: 0
 - Format [PAL/NTSC]: PAL
 - Input Resolution: 576i
 - Output Resolution: 480i
 - Aspect Ratio: 4:3
 - Field Sequence: NORMAL
 - Codec: MPEG-2
 - PCR PID: 6224
- Audio:**
 - Audio 1: Audio Codec: MPEG, Decoding Errors: 0, Audio PID: 6224
 - Audio 2: Audio Codec: N/A, Decoding Errors: N/A, Audio PID: N/A

If you have a green lock as shown here and on the front panel then continue the setup

Check the CA / CAM settings



They should suit the speed of the CAM card you are using:

Common Interface	
CIMultiDecryntMode:	<input type="text" value="MultiPMT"/>
CAM Max Bitrate:	<input type="text" value="72Mbps"/>

BISS	
BISS Mode:	<input type="text" value="BISS-1 Mode"/>
BISS-1 Key:	<input type="text" value="123456789ABC"/>

Select Program Decryption

All the programs are shown and from here you can route them to the CA/CI/CAM slot for the channels that you want to de-scramble

- Status
- ▼ Inputs
- Receiver
- ▼ Outputs
- Program Setup
- Program Decryption
- PID Select
- CA
- ▼ System
- Local Setup
- Alarms Setup
- User Management
- Preset
- Upgrade
- Log
- Logout
- Reset

NO.	SERVICE ID	Service Name	Operation
1	241	ABC News 24	Bypass
2	242	ABC1 QLD	Bypass
		ABC2 / ABC4 QLD	Bypass
		ABC3 QLD	Bypass
		ABC News 24	Bypass
6	252	ABC1 SA	Bypass
7	253	ABC2 / ABC4 SA	Bypass
8	254	ABC3 SA	Bypass
9	281	ABC News 24	Bypass
10	282	ABC1 NT	Bypass
11	283	ABC2 / ABC4 NT	Bypass
12	284	ABC3 NT	Bypass
13	906	ICTV	Bypass
14	910	ARDS	Bypass
15	911	CAAMA	Bypass
16	912	GUMALA	Bypass
17	913	LARRAKIA	Bypass
18	914	2CUZ FM	Bypass
19	915	TBA	Bypass
20	916	NG Media	Bypass
21	917	PAKAM	Bypass
22	918	PAW	Bypass
23	919	PY Media	Bypass
24	920	QRAM	Bypass
25	921	TEABBA	Bypass
26	922	TSIMA	CI Slot1
27	923	6WR	Bypass

Select

Now check / set the CA settings

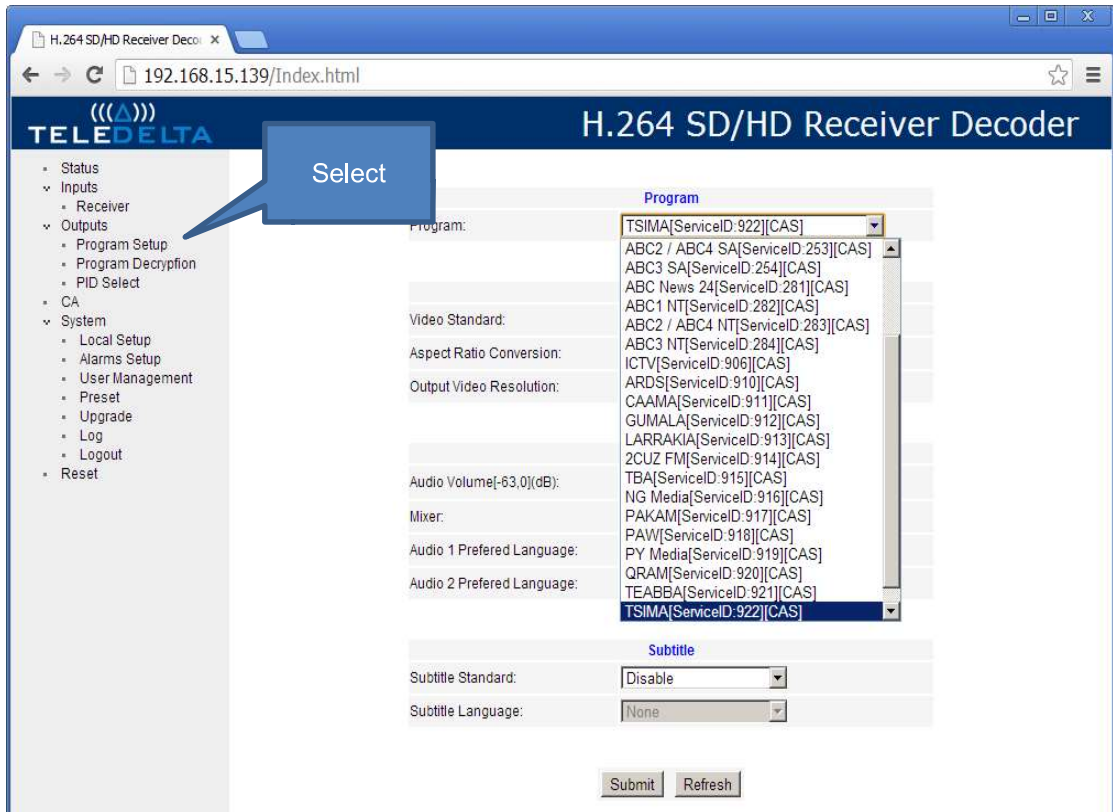
Note: - Only have one service routed to the CI Slot if you have a single service card

mpr receiver quick start guide vr1.5.docx

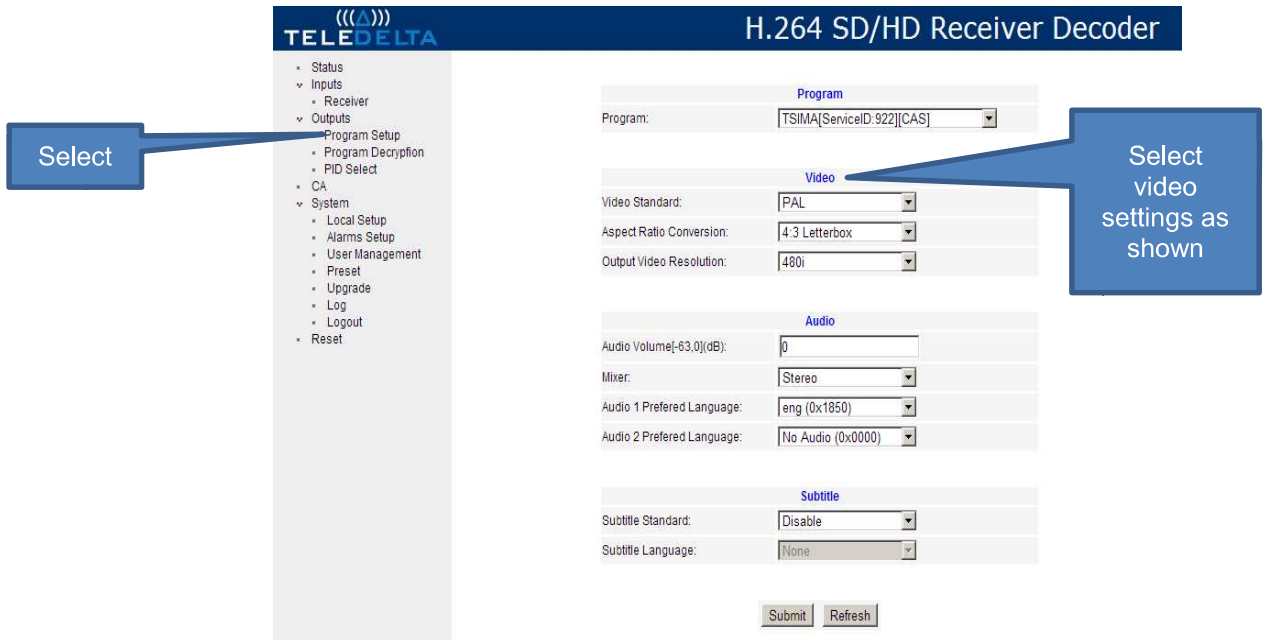
Page 10 of 17

Select Program

Now select Program Setup for the program that you want



Change the Video Settings from AUTOMATIC as shown below:



Appendix 2 - Setup Example VAST TV service (ABC24)

Let's assume that you have a dish and LNB connected and pointed correctly and you are going after the Optus VAST service

Setting the *Receiver* RF (single tuner models)

The screenshot shows the TELEDELTA web interface for an H.264 SD/HD Receiver Decoder. The left sidebar contains a navigation menu with the following items: Status, Inputs, Receiver, Outputs (Program Setup, Program Decryption, PID Select), CA, System (Local Setup, Alarms Setup, User Management, Preset, Upgrade, Log, Logout, Reset). The main content area is titled 'Source Select' and 'Source Config'. The 'Source Select' section has a 'Source' dropdown menu set to 'Tuner1'. The 'Source Config' section has three dropdown menus: 'RF Auto-Switch' (Disable), 'ASI Auto-Input' (Disable), and 'Source Standard' (DVB). Below this are two columns for 'Tuner1' and 'Tuner2' settings. Tuner1 settings include: Frequency Range (Ku Band), Satellite Frequency (11928 MHz), SymbolRate (30000 Kbaud), LNB Power Supply (13V(V)), LNB 22KHz (OFF(Low Band)), LNB L.O. Type (Ku Band), and LNB L.O. Frequency (10700 MHz). Tuner2 settings include: Frequency Range (C Band), Satellite Frequency (3840 MHz), SymbolRate (27500 Kbaud), LNB Power Supply (OFF), LNB 22KHz (OFF(Low Band)), LNB L.O. Type (C Band), and LNB L.O. Frequency (5150 MHz). At the bottom are 'Submit' and 'Refresh' buttons. Two blue callout boxes are present: one pointing to the 'Receiver' menu item labeled 'Select', and another pointing to the 'LNB Power Supply' field for Tuner1 labeled 'Optus C1/D3 156E, use 13V for standard Vertical'.

Status page

If all these settings are correct the receiver will lock and the Status page will look similar to this:

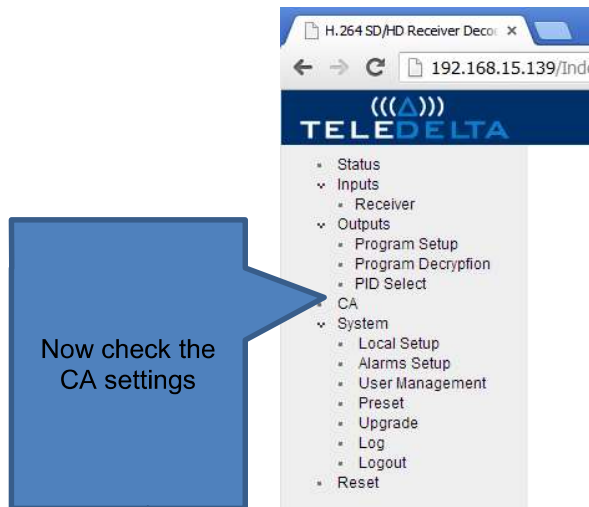
- Check for a lock

Note – Green for locked signal

General Status							
Receiver Lock	Active Alarm	Selected Source					
Lock	NO	Tuner1					
RF 1							
BER/PER	C/N [dBc]	RF Level [dBm]	Frequency Tune [MHz]	Frequency Offset [kHz]	FEC		
1.0*10E-9	11.30	-52	1228.20	200	8PSK 3/5		
RF 2							
BER/PER	C/N [dBc]	RF Level [dBm]	Frequency Tune [MHz]	Frequency Offset [kHz]	FEC		
N/A	N/A	N/A	N/A	N/A	N/A		
Stream Information							
Transport Stream Rate [Mbps]	Transport Stream ID	Original Network ID	Stream Date and Time				
52.19	0	0	N/A				
TS Status							
TS Rate [Mbps]	TS Effective Rate [Mbps]						
52.19	38.74						
Program Information							
Program Name	Program ID	Program Type	CAS/FTA				
D3 TUNE CHAN	11	Video	FTA				
Video							
Decoding Errors	Format [PAL/NTSC]	Input Resolution	Output Resolution	Aspect Ratio	Field Sequence	Codec	PCR PID
0	PAL	576i	576i	16.9	NORMAL	MPEG-2	801
Audio							
Audio	Audio Codec	Decoding Errors		Audio PID			
1	MPEG	0		802			
2	N/A	N/A		N/A			
ASI Output Status							
TS Rate [Mbps]	TS Effective Rate [Mbps]						
52.19	38.67						
Unit Identity							
MAC Address							
A0-88-88-00-75-2B							
Unit Versions							
Software version	Hardware version						
1T.1.16	1						
CI Status							
CI Slot1	CI Slot2			EMPTY			
Irdeeto Access							
Active Alarms							
Description	Time						
None	N/A						

If you have a green lock as shown here and on the front panel then continue the setup

Check the CA / CAM settings



They should suit the speed of the CAM card you are using:

Common Interface	
CIMultiDecryntMode:	<input type="text" value="MultiPMT"/>
CAM Max Bitrate:	<input type="text" value="72Mbps"/>

BISS	
BISS Mode:	<input type="text" value="BISS-1 Mode"/>
BISS-1 Key:	<input type="text" value="123456789ABC"/>

Select *Program Decryption*,

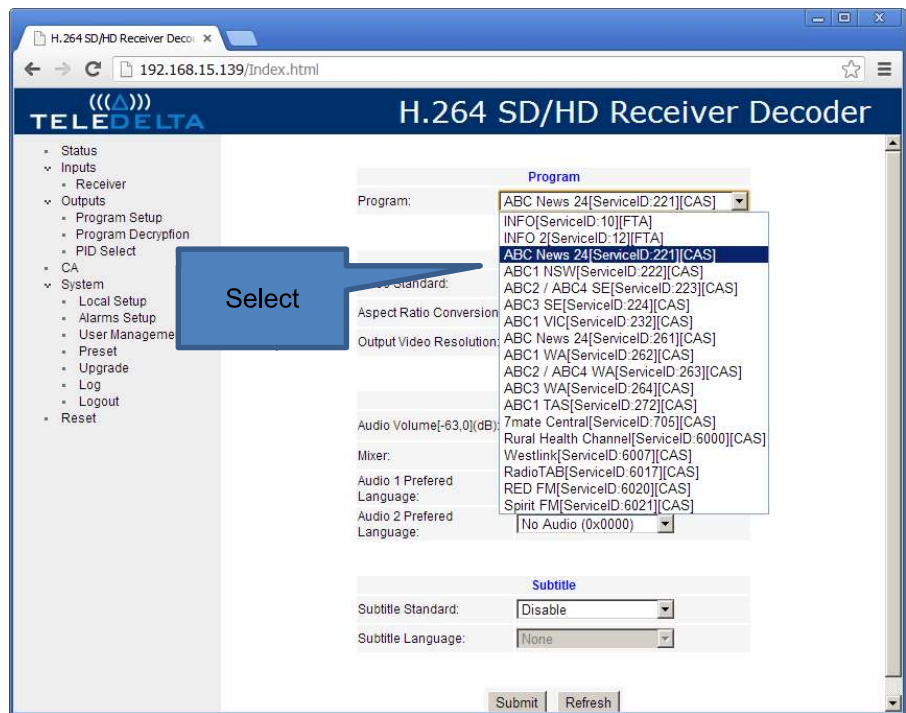
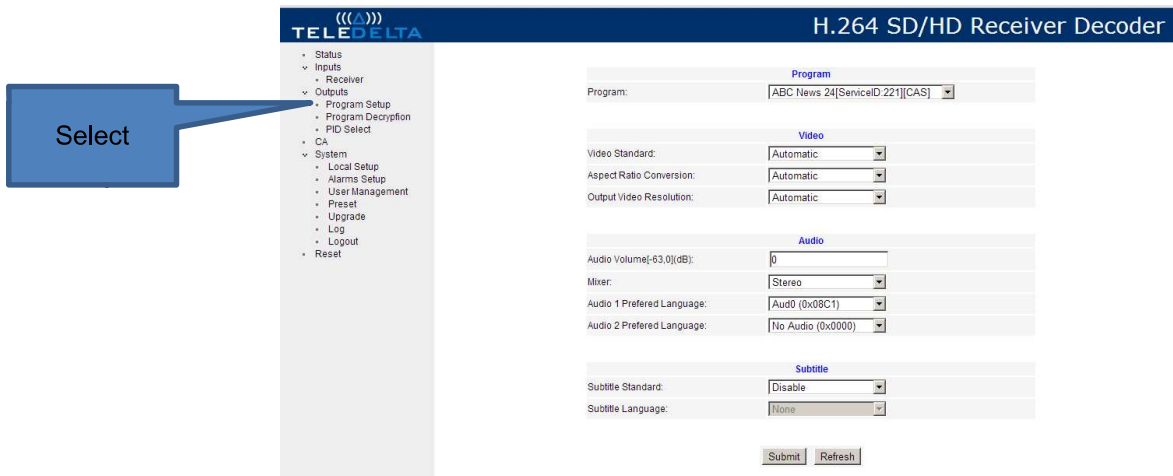
All the received programs are shown and from here you can route them to the CA/CI/CAM slot for the channels that you want to de-scramble

No.	Service ID	Service Name	Operation
1	10	INFO	Bypass
2	12	INFO 2	Bypass
3	221	ABC News 24	CI Slot1
4	222	ABC1 NSW	Bypass
5	223	ABC2 / ABC4 SE	Bypass
6	224	ABC3 SE	Bypass
7	232	ABC1 VIC	Bypass
8	261	ABC News 24	Bypass
9	262	ABC1 WA	Bypass
10	263	ABC2 / ABC4 WA	Bypass
11	264	ABC3 WA	Bypass
12	272	ABC1 TAS	Bypass
13	705	7mate Central	Bypass
14	6000	Rural Health Channel	Bypass
15	6007	Westlink	Bypass
16	6017	RadioTAB	Bypass
17	6020	RED FM	Bypass
18	6021	Spirit FM	Bypass

Note: Check that CAM is not overloaded - only one program is set to decryption if a "Single Service" card is used, or no more than 8 programs for the "Standard" multi service CAM; or no more than 10 programs for the "Super Special" multi service CAM

Select Program

Now select *Program Setup* for the program that you want



Appendix 3: Trouble Shooting Guide:

Problem	Check
No program – is CAM card authorised?	Select a known FTA service, (VAST service 10 on 12647MHz for example - valid as at March 2013) If audio and video is present MPR is set up correctly – Have CAM card re-authorised
Receiver locked, CAM okay, but still no program	Check that CAM is not overloaded - only one program is set to decryption if a “Single Service” card is used, or no more than 8 programs for the “Standard” multi service CAM; or no more than 10 programs for the “Super Special” multi service CAM.
Picture but no sound	Establish audio coding type (AAC etc..) with service provider and check with your dealer to confirm your MPR has this correct codec enabled.
Sound but no Picture (COFDM variant models) with mpeg4 H.264 source encoding	Check that TV receiver is mpeg4 H.264 receive capable. (Not just the USB port...)