

JazlerRadioStar 2 settings for DEVA RDS/RBDS Encoders

JazlerRadioStar 2 is software fully compatible with several devices from DEVA's RDS/RBDS Encoders product line:

- SmartGen Mini UECP Compatible, Compact RDS/RBDS Encoder with LAN & USB Connectivity;
- SmartGen 4.1 UECP Compatible RDS/RBDS Encoder with LAN & USB Connectivity;
- SmartGen 5.0 Professional Dynamic RDS/RBDS Encoder, RS- 232, USB & TCP-IP Ports, UECP Compatible;
- SmartGen 6.0 Professional Dynamic RDS/RBDS Encoder, RS- 232, USB & TCP-IP Ports, UECP Compatible.

1. DEVA SmartGen Encoders Manager set up

Prior the configuring procedure, check SmartGen's current version of the firmware. If the utilized version is older than 2.7, an update is required. The latest version can be found on www.devabroadcast.com/downloads

1.1 Allow the usage of dynamic PS using SmartGen Encoders Manager (as depicted in the screenshot), or the ASCII command DPSS=x, where x is number between 1 and 9, and sets the DPS scroll speed, (zero value means OFF).

■ SmartGen 6.0\06E7001D
Hardware Basic RDS Advanced RDS Data Sets ODA Console
PI FFFF CALL PTY RDS 11 - Rock Music RBDS 11 - Oldies MS OFF Timeout 1 min.
PS O Default PS DI SMARTGEN Timeout 0 min. SMARTGEN DI Stereo V No Artificial Head V Not Compressed V Dynamic PTY V
RT AF List Method A View Miles AF.6 Miles Miles AF.6 Miles
Dynamic PS ON Parse 1char
Default Dynamic PS
Image: Second control of the second
06E7001D FW:02.11 Connected



DEVA Broadcast Limited is an ISO 9001:2008 certified company.



1.2 Determine the appropriate mode of displaying of the dynamic PS text using SmartGen Encoders Manager, or the ASCII command PARSE.

When PARSE is set to 0 (words centered) or 9 (words justified to the left), parsing will send the short words together. Long words (up to and including 8 characters) are sent individually/separately. Words exceeding 8 characters are "sidestepped" through two or more consecutive displays. When PARSE is set between 1 and 8, the message is scrolled from 1 to 8 characters at a time without dividing into word groups.

Example:

PARSE=0

1.3 Set the speed of the dynamic PS to which it will be translated (scrolled). The speed depends on the ratio between the transmitted RDS 0A groups and other groups. For firmware version 2.7 and higher and software version 0.1.2.94 and higher, "Dynamic PS Speed" (DPSS) could be set. This function is accessible via the SmartGen Encoders Manager (as depicted in the screen shot), the WEB Interface or the ASCII command **DPSS**.

Example:

DPSS=5



WARNING: The current Group Sequence will be obliterated (lost) and replaced with a new one, containing 0A and 2A groups only.





2. JazlerRadioStar 2 Software configuration

As the software supports only COM port as a communication interface, it is recommended DEVA's Virtual COM Port to Ethernet Tool to be also installed - www.devabroadcast.com/dld.php?r=380. This application will establish a means of communication between the remote TCP/IP Port and the virtually created COM port.

For the further set-up of the software, we recommend referring to the complete user manual of the software's manufacturer, where thorough information on how to set Jazler to work with any RDS/RBDS Encoder can be found. The latest version of the manual can be downloaded from www.jazler.com/Downloads/RS2-RDS-en.pdf. For your convenience a printout of the document is applied at the end of the guide.

Please pay special attention to figure 2-6 on page 8, where in the drop-down menu you will have to choose as a model Inovonics 712 & 713, in order for the software to work with DEVA's devices. As depicted on the screenshot below.

🛛 Jaz	ler RadioStar 2.7.6 DEMO						
	RDS Driver						
	RDS Hardware						
	INOVONICS 712 & 713						
	8 ÷ Serial Port						
	_ Misc						
	Auto Start Initializes the RDS by starting Jazler						
	Restart Restarts the default message after a track title anouncement						
	Auto Center Centers the text on the recievers RDS screen						
	☑ Day/Month Keywords Always In English (Will not get them from Windows regional settings)						
	Force UPPERCASE						
	□ Track announcement						
	Song Text Annoucements Image: Songs You can broadcast information about the Announcement repeat						
	RDS Letter Localization Spots time						
	ок						





Jazler RadioStar 2

User Manual

RDS

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1 Summary

Many radio stations use RDS in order to transmit information about the song playing, station ID, time and date or any other info. Jazler is working with many RDS transmitters and can be programmed. The procedure of configuring the RDS requires the *Jazler RadioStar Studio Mode*.

2 RDS (Radio Data System)

First of all, we have to navigate to the appropriate screen: From control Panel press "Studio".



Figure 2-1

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interest	jaz	ler	1													C	Sop first
7999	Playlist Duration:	Ouration: Ο Π/Ω	Positic	n: 1111111111									@ 12	:27:3	6 Thursday 21-Aug-14	CD Loss Fore	Page
4	At 100 D	anationa NO	Intro:04		Jazler RS2.9.75	iazler.	169 01		Phylisis			histo	ats		Olarct File		
<u> </u>	di.			Change	History List:			1 VALAS	5			-					
2	Ati 0.0 Di	iration i NO					aS										
	AL DO			~			Live Assist										
ä				≪⊗ Monitor													
-	ALIND D																
ġ	10 C			٠.													
-	Ati Mg Di																
9	<i>2</i>																
6	ALING D	uration i No		*													
	Ation D						Empty								_		
7					Next Events:		Empty										
	Atina Di			Ployists	12:59:00 > 3 Spots (Durat	ion 03:15")	Empty										
8							Empty										
	ALIND D			4	Active Selections:		Empty										
J	101			Instants	DocuBile Problemet		Empty	Power S Sweepers Sv	Special V weepers Swi	laice bepers	5	Power					Power Sweepers
10	AL RUE DI	aration i NO.			17:59 - The agets break of 18:00 14:59 - The agets break of 15:00 15:27 - Track net found in databas	were canceled by t a use canceled by t	Empty			~		\otimes	-				-
					15:27 - Tracking found in databas	· · ·	Empty	<u> </u>		·		STOP	âX	IN	MPR	Fied	Palette
Vacu to	Vew Down Vew Tos	tozan	ficor Gr		Helio World!	Send Ressage	Empty			9) - 9)		45		- 0		<	

And you will be directed to **STUDIO** interface as the below image shows.



Here you can see the currently transmitted information and furthermore you can write your message on the fly and press **"Send Message"** to be transmitted by the RDS immediately. You can of course configure RDS and you can achieve that by clicking on **"RDS Prog"**.

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2		Jazler RadioStar 2.9.75		×
	RDS Section			
	Days & Times	Broadcast Text	RDS Schedule Map	
			Sunday Monday Tuesday	I
	Sunday 10:00 A Copy	JAZLER	00:00	-
1	Monday 11:00 Hour	SONG!	01:00 DATE! TI	-
1	Tuesday 12:00		03:00	-
	Thursday 14:00 Paste	Insert	04:00	
	Friday 15:00 Hour		05:00	
1	Saturday 16:00		06:00	-
1	Alternative 17:00 V	Enter	07:00	-
1	Delete Hour	Type here the word you want	09:00	-
- N		list and press enter.	10:00	
	Delete All	Remember, if you type the	11:00	
		SONG! you auto-retrieve	12:00	-
		them from Jazler.	13:00	-
			15:00	
		— Delete	16:00	
			17:00	
	RDS Transmitter Status		18:00	-
	19.22	Disconnec	20:00	-
	12:55	t	21:00	-
	Grand	RDS	22:00	
		RDS Properties	23:00	
	Down 10 Up			
	l			OK

Figure 2-3

Here you can program the RDS to transmit your desired information. At the left of the screen we can see the programming by day of week and time of day. This allows for the maximum customizability depending on your needs. There is also the "default" option of "Alternative" which indicates what will be displayed unless configured differently. Furthermore, there are many buttons that help with the programming "Delete Hour", "Delete All", "Copy Hour" and "Paste Hour".

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The above mentioned were the tools and now we have to use them in order to configure the RDS, as shown in the picture below. While having chosen the desired hour and day we can type the desired text and press "Enter". The "Enter Mode" indicates whether the text will be added at the end or be inserted in desired position. With the button "Delete" we can delete the desired text. Of course the changes are not applied automatically and are previewed in the table at the left. In fact, Jazler awaits you to press the button "Update RDS" to confirm the changes and update the "RDS Schedule Map" at the right of the screen.

2	Jazler RadioStar 2.9.75		×
	RDS Section		
	Days & Times Broadcast Text Sunday 10:00 11:00 Copy Hour Uesday 12:00 Wesday 12:00	Sunday Monday Tuesday 00:00 01:00 DATE! TI 02:00 03:00 03:00 03:00	
	Wednesday 14:00 Thursday 14:00 Friday 15:00 Saturday 16:00 Alternative 17:00 ∨ Delete Hour Enter Delete All Enter Type here the word you want to add to the RDS broadcast list and press enter. Remember, if you type the keywords DATEI, TIMEI, SONG You auto-retrieve them from Jazler.	04:00 05:00 05:00 07:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 15:00	
	RDS Transmitter Status I2:33 Disconnec Speed RDS Properties	17:00 18:00 19:00 20:00 21:00 23:00 4	
		o	к

Figure 2-4

For your convenience there are 3 certain keywords that automate some actions. The keywords are DATE!, TIME! and SONG! that forces the RDS to display the current date, time and information about song respectively.

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2		Jazler RadioStar 2.9.75	×
	RDS Section		
	Davs & Times	Broadcast Text	RDS Schedule Map
		3421 CP	Sunday Monday Tuesday
	Sunday 10:00 A Copy Monday 11:00 Hours	SONG!	01:00 DATE! TI
	Tuesday 12:00	DATE!	02:00
	Wednesday 13:00 Thursday 14:00 Paste	TIME! O Add	03:00
	Friday 15:00 Hour	@ Insert	05:00
	Saturday 16:00	HU	06:00
	Alternative 17.00 +	Type here the word you want	08:00
	Delete Hour	to add to the RDS broadcast	09:00
	Delete All	Remember, if you type the	11:00
		keywords DATE!, TIME!, SONG! you auto-retrieve	12:00
		them from Jazler.	14:00
		Delete	15:00
		Delete	16:00
	RDS Transmitter Status		18:00
	7A7LCD	Disconnec	19:00
(JAZCON	t Update	21:00
\mathbf{N}	Speed	RDS	22:00
	Down 10 Up	RDS Properties	23.00
			ок

Figure 2-5

From the image above, at the bottom left of the screen we can preview how the RDS will be displayed to a receiver and can also adjust the update speed of the screen by pressing "Up" and "Down". By pressing "Disconnect" you disable the RDS and nothing is transmitted. Finally, by clicking "RDS Properties" you are redirected to the image below.

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2	Jazler RadioStar 2.9.75	×							
	RDS Driver								
	RDS Hardware	_							
	PRAIS 732 Model								
	02 - Page 1 - Serial Port								
	Misc								
	✓ Auto Start Initializes the RDS by starting Jazler								
	Restart Restarts the default message after a track title anouncement								
	Auto Center Centers the text on the recievers RDS screen								
	☑ Day/Month Keywords Always In English (Will not get them from Windows regional settings)								
	Force UPPERCASE								
	Track announcement	$\neg \mid$							
	Song Text Announcement repeat								
	Annoucements information about the 2 times								
	RDS Letter Localization Spots time								
		OK							

Figure 2-6

In this image you can change the properties of the RDS. For example you have to choose the model of RDS you use as it is crucial for some settings. Also, you have to know to which "Serial Port" the device is connected and declare it accordingly. Additionally, you can adjust how the "Song Text Announcements" will be made by pressing the corresponding button.

Jazler RadioStar 2.9.75
RDS Driver
The text below will be broadcasted before the announcement of the artist of the Now Playing:
The text below will be broadcasted before the announcement of the title of the With:
The characters below will appear before and after the title of the song Title

Figure 2-7

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Here you can edit the text that will be displayed before the artist and title announcement and the characters that enclose the title of the song.

By pressing the **"RDS Letter localization"** you will be directed to the below image from which you can replace your local language characters to the desired Latin letters that will be accepted by the RDS protocol.





Finally, when the "RDS schedule Map" is filled based on your preferences you can edit each hour of the day by pressing the corresponding cell. The result is the preview table to show what will be displayed and by using the "Enter" and "Delete" buttons you can configure it.

2		Jazler RadioStar 2.9.75	×
	RDS Section		
	Days & Times	Broadcast Text RDS Schedure Map	dans I Threadans I
	Sunday 11:00 ^ Monday 12:00	DATE! TIME! Enter Mode 00:01 JAZLER S Q Add Q:00 JAZLER S Q Insert 00:00 JAZLER S HI I Enter Type here the word you want to add to the RSD bradcast list and press enter. Remember, if you type the keywords DATE!, TIME!, SONG! you auto-retrieve them from Jazler. 00:00 JAZLER S Delete 10:00 DATE! TI 10:00 DATE! S	day Thesday JAZLLR S JAZLER S JAZLER S JAZLER S JAZLER S DATE! TI JAZLER S JAZLER S JAZLER S
	RDS Transmitter Status	18:00 SONG! D 19:00 JAZLER S	JAZLER S
	Jazier Speed Down 10 Up	Disconnec t Update RDS RDS Properties Update RDS 22:00 JAZLER S 22:00 JAZLER S 23:00 JAZLER S 23:00 JAZLER S 23:00 JAZLER S 23:00 JAZLER S 23:00 JAZLER S 4	
			ок

Figure 2-9



3 TIPs

- Remember to press "Update RDS" on order for the changes to take place.
- The predefined keywords are DATE! , TIME! and Song!

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