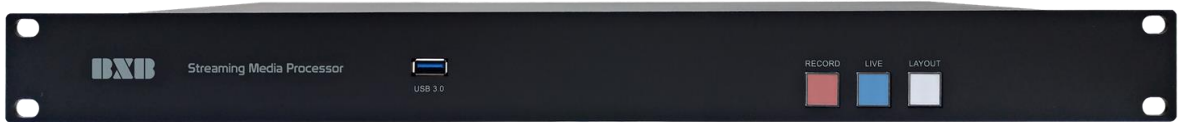


HDR-731

RS-232 / 485 Communication Protocol Reference Manual

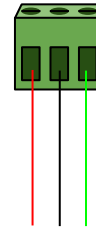


Firmware version: V1.4.3

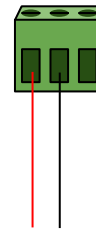
Publish date: Feb, 2021



Communication Setting



TRG
XXN
D



DD
+ -

Communication mode	RS-232
Baud rate	9600
Data bit	8
Parity check	None
Stop bit	1
Flow control	None

ASCII Code

Code Instruction	CMD	Param 1	Param 2	Param 3	Param 4	Param 5
Firmware version check	hdr000	\$0d (1)				
HDMI 1 PGM Multiview	hdr002	0~1 (2)	\$0d			
HDMI 1 show PGM layout	hdr003	0~1 (3)	\$0d			
HDMI 1 PGM switch	hdr001	0~8 (4)	\$0d			
HDMI 1 on/off CG function	hdr007	0~4 (5)	0~1 (6)	0~1 (7)	0~3 (8)	\$0d
PGM status check	hdr004	\$0d				
Snapshot	hdr008	0~4 (5)	\$0d			
Off / on recording	hdr005	0~9 (9)	0~1 (10)	0~1 (11)	\$0d	
Off / on streaming	hdr006	0~9 (9)	0~1 (12)	0~1 (13)	\$0d	

1. CR (carriage return character): "\$0d" is the CR. There is no need to add "\$0d" in the ASCII command if the environmental control device can add the CR by itself.
2. Video output mode → 0 = Multiview; 1 = PGM
3. Display of PGM layout information → 0 = Hide , 1 = Display
4. PGM layout → 0~8 = layout 1 ~ layout 9
5. Video source → 0~4 = source 1 ~ source 4
6. CG function → 0 = status checking; 1 = setting
7. Display of CG → 0 = Hide; 1 = Display
8. CG source → 0~3 = CG 1 ~ CG 4
9. Video source → 0 ~ 9 = CH 1 Main ~ PGM Sub
10. Recording function → 0 = status checking; 1 = setting
11. Recording on / off → 0 = OFF; 1 = ON
12. Livestreaming → 0~9 = CH 1 Main streaming ~ PGM Sub streaming
13. Streaming function → 0 = status checking; 1 = setting
14. Streaming on / off → 0 = OFF; 1 = ON

ASCII Code Chart

Code Instruction	CMD	Param 1	Param 2	Param 3	Param 4	Param 5
Firmware version check	hdr000	\$0d				
Checking HDMI 1 states	hdr004	\$0d				
Output PGM Multiveiw (HDMI 1)	hdr002	0	\$0d			
Output PGM screen (HDMI 1)	hdr002	1	\$0d			
Display PGM layout info. (HDMI 1)	hdr003	1	\$0d			
Hide PGM layout info. (HDMI 1)	hdr003	0	\$0d			
Switch to PGM layout 1 (HDMI1)	hdr001	0	\$0d			
Switch to PGM layout 2 (HDMI1)	hdr001	1	\$0d			
Switch to PGM layout 3 (HDMI1)	hdr001	2	\$0d			
Switch to PGM layout 4 (HDMI1)	hdr001	3	\$0d			
Switch to PGM layout 5 (HDMI1)	hdr001	4	\$0d			
Switch to PGM layout 6 (HDMI1)	hdr001	5	\$0d			
Switch to PGM layout 7 (HDMI1)	hdr001	6	\$0d			
Switch to PGM layout 8 (HDMI1)	hdr001	7	\$0d			
Switch to PGM layout 9 (HDMI1)	hdr001	8	\$0d			

ASCII Code Chart

Code Instruction	CMD	Param 1	Param 2	Param 3	Param 4	Param 5
On Channel 1 Main recording	hdr005	0	1	1	\$0d	
Off Channel 1 Main recording	hdr005	0	1	0	\$0d	
On Channel 1 Sub recording	hdr005	1	1	1	\$0d	
Off Channel 1 Sub recording	hdr005	1	1	0	\$0d	
On Channel 2 Main recording	hdr005	2	1	1	\$0d	
Off Channel 2 Main recording	hdr005	2	1	0	\$0d	
On Channel 2 Sub recording	hdr005	3	1	1	\$0d	
Off Channel 2 Sub recording	hdr005	3	1	0	\$0d	
On Channel 3 Main recording	hdr005	4	1	1	\$0d	
Off Channel 3 Main recording	hdr005	4	1	0	\$0d	
On Channel 3 Sub recording	hdr005	5	1	1	\$0d	
Off Channel 3 Sub recording	hdr005	5	1	0	\$0d	
On Channel 4 Main recording	hdr005	6	1	1	\$0d	
Off Channel 4 Main recording	hdr005	6	1	0	\$0d	
On Channel 4 Sub recording	hdr005	7	1	1	\$0d	
Off Channel 4 Sub recording	hdr005	7	1	0	\$0d	

ASCII Code Chart

Code Instruction	CMD	Param 1	Param 2	Param 3	Param 4	Param 5
On Channel PGM Main recording	hdr005	8	1	1	\$0d	
Off Channel PGM Main recording	hdr005	8	1	0	\$0d	
On Channel PGM Sub recording	hdr005	9	1	1	\$0d	
Off Channel PGM Main recording	hdr005	9	1	0	\$0d	
On Channel 1 Main Streaming	hdr006	0	1	1	\$0d	
Off Channel 1 Main Streaming	hdr006	0	1	0	\$0d	
On Channel 1 Sub Streaming	hdr006	1	1	1	\$0d	
Off Channel 1 Sub Streaming	hdr006	1	1	0	\$0d	
On Channel 2 Main Streaming	hdr006	2	1	1	\$0d	
Off Channel 2 Main Streaming	hdr006	2	1	0	\$0d	
On Channel 2 Sub Streaming	hdr006	3	1	1	\$0d	
Off Channel 2 Sub Streaming	hdr006	3	1	0	\$0d	
On Channel 3 Main Streaming	hdr006	4	1	1	\$0d	
Off Channel 3 Main Streaming	hdr006	4	1	0	\$0d	
On Channel 3 Sub Streaming	hdr006	5	1	1	\$0d	
Off Channel 3 Sub Streaming	hdr006	5	1	0	\$0d	
On Channel 4 Main Streaming	hdr006	6	1	1	\$0d	

ASCII Code Chart

Code Instruction	CMD	Param 1	Param 2	Param 3	Param 4	Param 5
Off Channel 4 Main Streaming	hdr006	6	1	0	\$0d	
On Channel 4 Sub Streaming	hdr006	7	1	1	\$0d	
Off Channel 4 Sub Streaming	hdr006	7	1	0	\$0d	
On Channel PGM Main Streaming	hdr006	8	1	1	\$0d	
Off Channel PGM Main Streaming	hdr006	8	1	0	\$0d	
On Channel PGM Sub Streaming	hdr006	9	1	1	\$0d	
Off Channel PGM Sub Streaming	hdr006	9	1	0	\$0d	
On Channel 1 Image CG	hdr007	0	1	1	0	\$0d
Off Channel 1 Image CG	hdr007	0	1	0	0	\$0d
On Channel 1 Time CG	hdr007	0	1	1	1	\$0d
Off Channel 1 Time CG	hdr007	0	1	0	1	\$0d
On Channel 2 Image CG	hdr007	1	1	1	0	\$0d
Off Channel 2 Image CG	hdr007	1	1	0	0	\$0d
On Channel 2 Time CG	hdr007	1	1	1	1	\$0d
Off Channel 2 Time CG	hdr007	1	1	0	1	\$0d
On Channel 3 Image CG	hdr007	2	1	1	0	\$0d
Off Channel 3 Image CG	hdr007	2	1	0	0	\$0d
On Channel 3 Time CG	hdr007	2	1	1	1	\$0d
Off Channel 3 Time CG	hdr007	2	1	0	1	\$0d
On Channel 4 Image CG	hdr007	3	1	1	0	\$0d
Off Channel 4 Image CG	hdr007	3	1	0	0	\$0d
On Channel 4 Time CG	hdr007	3	1	1	1	\$0d
Off Channel 4 Time CG	hdr007	3	1	0	1	\$0d

ASCII Code Chart

Code Instruction	CMD	Param 1	Param 2	Param 3	Param 4	Param 5
On Channel PGM Image CG	hdr007	4	1	1	0	\$0d
Off Channel PGM Image CG	hdr007	4	1	0	0	\$0d
On Channel PGM Time CG	hdr007	4	1	1	1	\$0d
Off Channel PGM Time CG	hdr007	4	1	0	1	\$0d
Snapshot Channel 1 screen	hdr008	0	\$0d			
Snapshot Channel 2 screen	hdr008	1	\$0d			
Snapshot Channel 3 screen	hdr008	2	\$0d			
Snapshot Channel 4 screen	hdr008	3	\$0d			
Snapshot Channel PGM screen	hdr008	4	\$0d			
Show Mixer Volume	hdr010	0	1-8	\$0d		
Show Current Mode	hdr010	0	0	\$0d		
Mode Setting: Mix	hdr010	1	0	10	\$0d	
Mode Setting: Follow PGM	hdr010	1	0	11	\$0d	
Mixer Volume Setting	hdr010	1	1-8	0-100	\$0d	
Show Current HDMI1 Output Volume	hdr011	0	1	\$0d		
Show Current HDMI2 Output Volume	hdr011	0	2	\$0d		
Setting HDMI1 Output Volume	hdr011	1	1	0-100	\$0d	
Setting HDMI2 Output Volume	hdr011	1	2	0-100	\$0d	



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