

Ultra Score Data Out Protocol (for Gymnastics)

The Data Out function of Ultra Score program can export the real time timing and scoring data with UDP broadcast.

The broadcast is on port **2800**. Any software in the same network as Ultra Score can listen on this port to receive the real time data.

1. Athlete List Data (Sort by starting order)

Item	Length	
Head	2 BYTE	0xFF 0xFE
System ID	1 BYTE	Identify each system in one stadium. 0x01 by default.
ID	1 BYTE	0x51 for result list data
Length	2 BYTE	0x2C 0x01 (Length=300)
Athlete 1	Number	1 BYTE Ex: 0x01 means athlete No 1. 0x00 means no athlete.
	Result	6 BYTE Result in ASCII format. Ex: 0x39 0x2E 0x35 0x32 0x00 for "9.52"
	Rank	3 BYTE Rank in ASCII format. Ex: 0x31 0x32 0x00 for "12"
Athlete 2	Number	1 BYTE
	Result	6 BYTE
	Rank	3 BYTE
...	...	
Athlete 30	Number	1 BYTE
	Result	6 BYTE
	Rank	3 BYTE
Foot	2 BYTE	0xFD 0xFC

2. Current Athlete Data (for Artistic Gymnastics and Rhythmic Gymnastics)

Item	Length	
Head	2 BYTE	0xFF 0xFE
ID	1 BYTE	0x52 for current athlete data
System ID	1 BYTE	Identify each system in one stadium. 0x01 by default.
Length	2 BYTE	0xDC 0x00 (Length=220)
Athlete Number	2 BYTE	Ex: 0x01 0x00 means athlete No 1.
Current Rank	3 BYTE	Rank in ASCII format.
Score	10 BYTE	Result in ASCII format. Ex: 0x39 0x2E 0x35 0x32 0x00 0x00 0x00 0x00 0x00 0x00 for "9.52"

Difficulty Score	10 BYTE	In ASCII format.
Execution Score	10 BYTE	In ASCII format.
Penalty	10 BYTE	In ASCII format.
Reserved	170 BYTE	
IRM	5 BYTE	Invalid Result Mark
Foot	2 BYTE	0xFD 0xFC

3. Current Athlete Data (for **Figure Skating**)

Item	Length	
Head	2 BYTE	0xFF 0xFE
ID	1 BYTE	0x12 for current athlete data
System ID	1 BYTE	Identify each system in one stadium. 0x01 by default.
Length	2 BYTE	0xDC 0x00 (Length=220)
Athlete Number	2 BYTE	Ex: 0x01 0x00 means athlete No 1.
Current Rank	3 BYTE	Rank in ASCII format.
Score	10 BYTE	Result in ASCII format. Ex: 0x39 0x2E 0x35 0x32 0x00 0x00 0x00 0x00 0x00 0x00 for "9.52"
Presentation Total Score	10 BYTE	In ASCII format.
Presentation SS Score	10 BYTE	
Presentation TR Score	10 BYTE	
Presentation PE Score	10 BYTE	
Presentation CH Score	10 BYTE	
Presentation IN Score	10 BYTE	
Technical Element Total Score	10 BYTE	In ASCII format.
Technical Element 1 Score	10 BYTE	
Technical Element 2 Score	10 BYTE	
Technical Element 3 Score	10 BYTE	
Technical Element 4 Score	10 BYTE	
Technical Element 5 Score	10 BYTE	
Technical Element 6 Score	10 BYTE	
Technical Element 7 Score	10 BYTE	
Technical Element 8 Score	10 BYTE	
Technical Element 9 Score	10 BYTE	
Technical Element 10 Score	10 BYTE	
Technical Element 11 Score	10 BYTE	
Technical Element 12 Score	10 BYTE	
Penalty	10 BYTE	In ASCII format.
IRM	5 BYTE	Invalid Result Mark
Foot	2 BYTE	0xFD 0xFC