

Ultra Score Data Out Protocol (for Handball)

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. General Data

Item	Length	
Head	2 BYTES	0xFF 0xFE
ID	2 BYTES	0x41 0x01 for general data
System ID	1 BYTE	Identify each system in one stadium. 0x01 by default.
Length	2 BYTES	0x18 0x00 (Length=24)
Period	1 BYTE	1 st Period = 0x01, 2 nd Period=0x02
Match Timer Status	1 BYTE	This data composed by following flags: Match Timer=0x10, Break Timer=0x20 Timing=0x01, not start yet or paused=0x02 Ex: Match Timer is timing: 0x11, Break Timer paused: 0x22
Match Timer	3 BYTES	Minute part + second part + 1/10 second part. Ex: 0x0B 0x3B 0x05 when match timer is 11:59.5 0xFF 0xFF 0xFF means the match timer be closed (not display)
Timeout	1 BYTE	Ex: 0x3C when timeout 60 seconds 0xFF means no available timeout.
Team A Score	1 BYTE	
Team B Score	1 BYTE	
Team A First Half Score	1 BYTE	
Team B First Half Score	1 BYTE	
Team A Second Half Score	1 BYTE	
Team B Second Half Score	1 BYTE	
Team A Overtime Time 1 1st Score	1 BYTE	
Team B Overtime Time 1 1st Score	1 BYTE	
Team A Overtime Time 1 2nd Score	1 BYTE	
Team B Overtime Time 1 2nd	1 BYTE	

Score		
Team A Overtime Time 2 1st Score	1 BYTE	
Team B Overtime Time 2 1st Score	1 BYTE	
Team A Overtime Time 2 2nd Score	1 BYTE	
Team B Overtime Time 2 2nd Score	1 BYTE	
Team A Shootout Score	1 BYTE	
Team B Shootout Score	1 BYTE	
Team A Timeout times	1 BYTE	
Team B Timeout times	1 BYTE	
Foot	2 BYTES	0xFD 0xFC

2. Player Data

Item	Length		
Head	2 BYTES	0xFF 0xFE	
ID	2 BYTES	0x42 0x01 for team A, 0x43 0x01 for team B	
System ID	1 BYTE	Identify each system in one stadium. 0x01 by default.	
Length	2 BYTES	0xA0 0x00 (Length=160)	
Player 1	Number	3 BYTES	Player number in ASCII mode. 0x31 0x35 0x00 when player number is 15. 0x00 0x00 0x00 when no player available.
	Score	1 BYTE	0x20 when player score is 32
	Yellow Card	1 BYTE	0x01 when player yellow card is 1
	Red Card	1 BYTE	
	Blue Card	1 BYTE	
	Penalty Times	1 BYTE	0x04 when player penalty times is 4
Player 2	Number	3 BYTES	
	Score	1 BYTE	
	Yellow Card	1 BYTE	
	Red Card	1 BYTE	
	Blue Card	1 BYTE	
	Penalty Times	1 BYTE	
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Player 20	Number	3 BYTES	
	Score	1 BYTE	
	Yellow Card	1 BYTE	
	Red Card	1 BYTE	
	Blue Card	1 BYTE	
	Penalty Times	1 BYTE	

Foot	2 BYTES	0xFD 0xFC
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3. Penalty

Item		Length	
Head		2 BYTES	0xFF 0xFE
ID		2 BYTES	0x44 0x01 for team A, 0x45 0x01 for team B
System ID		1 BYTE	Identify each system in one stadium. 0x01 by default.
Length		2 BYTES	0x0F 0x00 (Length=15)
Penalty Info 1	Player Number	3 BYTES	Player number in ASCII mode. 0x31 0x35 0x00 when player number is 15.
	Penalty Time	2 BYTES	Minute part + second part 0x01 0x3B when penalty time is 119 second (01:59)
Penalty Info 2	Player Number	3 BYTES	
	Penalty Time	2 BYTES	
Penalty Info 3	Player Number	3 BYTES	
	Penalty Time	2 BYTES	
Foot		2 BYTES	0xFD 0xFC