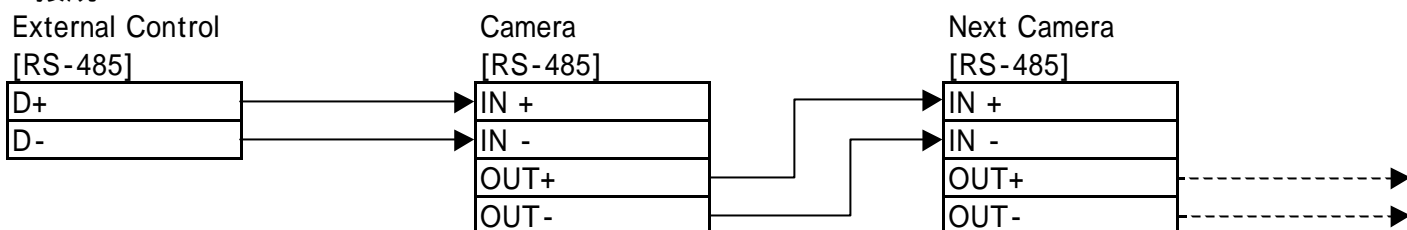


# RS-485 Communication Protocol for PTC-200C

Ver 3.08 2002/12/05

## 1. 接続



## 2. UART Protocol

通信方式 調歩同期式半二重  
通信速度 9600  
スタートビット 1  
データビット 8  
パリティビットなし  
ストップビット 1

## 3. Command Packet

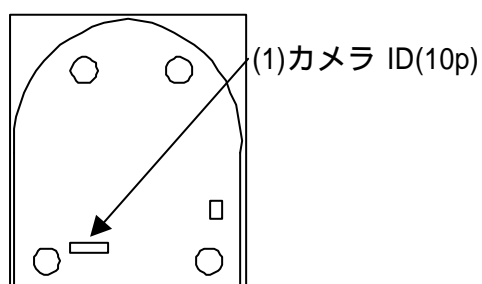
全てのコマンドは、6バイト一定である。

Byte 1	Byte 2	Byte 3	Byte 4	Byte5	Byte 6
送信先 ID	送信元 ID	コマンド	データ 0	データ 1	チェック・サム

チェック・サム = Byte1 XOR Byte2 XOR Byte3 XOR Byte4 XOR Byte5  
(XOR= exclusive or)

## 4. DIP Switch Setting

[底面図]



(1)カメラ ID

SW1 ~ 8 = カメラ I D 番号 (MAX=223)

SW9 = 終端抵抗(ON/OFF)

SW10 = N C

Command	Packet	Packet Reply	Comments
Stop	ID 00 24 04 00 cs	00 ID 24 04 00 cs	Zoom control
Tele	ID 00 24 01 00 cs	00 ID 24 01 00 cs	
Wide	ID 00 24 00 00 cs	00 ID 24 00 00 cs	
Speed	ID 00 24 03 pq cs	00 ID 24 03 pq cs	
Speed(Request)	ID 00 24 05 00 cs	00 ID 24 05 pq cs	
position	ID 00 27 pq rs cs	00 ID 27 pq rs cs	
position(Request)	ID 00 20 01 00 cs	00 ID 20 pq rs cs	pp:Speed parameter 00h(Slow) to 03h(Fast), 4 steps pp:Speed parameter 00h(Slow) to 03h(Fast), 4 steps pp:High Address rs:Low Address (W-00F1 T-09B9) pp:High Address rs:Low Address (W-00F1 T-09B9)
Stop	ID 00 25 04 00 cs	00 ID 25 04 00 cs	Focus control
Far(Manual)	ID 00 25 01 pq cs	00 ID 25 01 pq cs	
Near(Manual)	ID 00 25 00 pq cs	00 ID 25 00 pq cs	
Far	ID 00 25 06 pq cs	00 ID 25 06 pq cs	
Near	ID 00 25 05 pq cs	00 ID 25 05 pq cs	
Auto	ID 00 26 03 00 cs	00 ID 26 03 00 cs	
Auto / Manual	ID 00 26 00 00 cs	00 ID 26 00 00 cs	
Stop	ID 00 23 05 00 cs	00 ID 23 05 00 cs	Iris control
Close	ID 00 23 03 00 cs	00 ID 23 03 00 cs	
Open	ID 00 23 02 00 cs	00 ID 23 02 00 cs	
Auto Iris	ID 00 23 04 00 cs	00 ID 23 04 00 cs	
Right	ID 00 18 00 pq cs	00 ID 18 00 pq cs	
Left	ID 00 18 01 pq cs	00 ID 18 01 pq cs	
Pan Stop	ID 00 13 00 00 cs	00 ID 13 00 00 cs	
Up	ID 00 18 02 pq cs	00 ID 18 02 pq cs	
Down	ID 00 18 03 pq cs	00 ID 18 03 pq cs	
Tilt Stop	ID 00 14 00 00 cs	00 ID 14 00 00 cs	
Right	ID 00 4E 00 pq cs	00 ID 4E 00 pq cs	
Left	ID 00 4E 01 pq cs	00 ID 4E 01 pq cs	
Up	ID 00 4E 02 pq cs	00 ID 4E 02 pq cs	
Down	ID 00 4E 03 pq cs	00 ID 4E 03 pq cs	
Pan*1	ID 00 07 pq rs cs	00 ID 07 pq rs cs	pp:Speed parameter 00h(Slow)to 07h(Fast), 8 steps
Tilt*1	ID 00 08 pq rs cs	00 ID 08 pq rs cs	
Pan(Request)*1	ID 00 09 00 00 cs	00 ID 09 pq rs cs	
Tilt(Request)*1	ID 00 0A 00 00 cs	00 ID 0A pq rs cs	
Go to Preset N	ID 00 11 pq rs cs	00 ID 11 pq rs cs	pp: 00h,03h:Go to Preset
Memory N	ID 00 1D pq rs cs	00 ID 1D pq rs cs	rs: Preset number 00h(Position1) to 05h(Position6)6Position
Home/OSD	ID 00 49 02 00 cs	00 ID 49 02 00 cs	Home/OSD Both
Home	ID 00 49 04 00 cs	00 ID 49 04 00 cs	Home Position Only
Reset	ID 00 15 AA 55 cs	00 ID 15 AA 55 cs	
Up	ID 00 28 00 00 cs	00 ID 28 00 00 cs	Up key push
Down	ID 00 28 01 00 cs	00 ID 28 01 00 cs	Down key push
Left	ID 00 28 02 00 cs	00 ID 28 02 00 cs	Left key push
Right	ID 00 28 03 00 cs	00 ID 28 03 00 cs	Right key push
Stop	ID 00 28 FF 00 cs	00 ID 28 FF 00 cs	key pull
MENU	ID 00 28 04 00 cs	00 ID 28 04 00 cs	MENU key push
(Request)	ID 00 00 00 00 cs	00 ID 00 pq rs cs	pp:00h=Camera,01h=Multiplexer rs=10h:PTC-220
Acknowledge	ID 00 84 pq 00 cs	00 ID 84 pq 00 cs	pp: 00h:Enable, 01h:Disable
(Request)	ID 00 4A 00 00 cs	00 ID 4A pq 00 cs	pp:bit0=Cruise(1:supported),bit1=Pan/Tilt(0:supported) bit2=Zoom(0:supported), bit3=OSDmenu(0:supported) bit4=DeviceLock(1:supported),bit5=Home(1:supported) bit6=0,bit7=0 PTC-220=30h(defalut)
(Request)	ID 00 01 00 00 cs	00 ID 01 60 pq cs	pp: bit0=OSDmenu(0:off,1:on), bit1=AF(0:manu,1:auto) bit2=OSDoperation(0:pan/tilt,1:OSDoperation)
(Request)	ID 00 02 00 00 cs	00 ID 02 pq rs cs	pqrs:Version ( 0302=ver3.02)
On/Off*1	ID 00 82 pq 00 cs	00 ID 82 pq 00 cs	pp: 00h:off 01h:on
(Request)*1	ID 00 82 02 00 cs	00 ID 82 02 pq cs	pp: 00h:on 01h:off
On/Off*2	ID 00 03 pq 00 cs	00 ID 03 pq 00 cs	pp: 00h:on 01h:off

\*1 = parameter modify

\*2 = Original Command

cs=Checksum(Byte1~5:XOR)

Camera底面のDIPスイッチ4切替え

OFF : 応答時間4.7μsec、ON : 応答時間10msec