

## Connector and Pin Assignments

CN-1 (9-Pin Power, VBS and V-Lock to Camera)		
Pin Number	Name	Level
1	R x D	CMOS 5V (Low: Max 0.8V) (High: Min 2.0V) Read Data
2	T x D	CMOS 5V (Low: Max 0.1V) (High: Min 4.4V) Send Data
3	GND (For R x D and T x D)	
4	DC In	9.0V +/- 3V
5	GND (For DC In)	
6	VBS Out	1.0V +/- 0.2V
7	GND (For VBS Out)	
8	V LOCK PULSE OUTPUT	External VD-Lock Pulse (EX.FV: Negative, 3V p-p 50% Duty)
9	GND (For V Lock Pulse)	
Supplied Cable: 9-Pin FFC Cable. Length: 11.5-inches (290mm)		

CN-2 (4-Pin Y/C to Camera)			
Pin Number	Name	Wire Color	Pin Number
1	Y Out	Gray	1
2	GND (For Y Signal)	Black	2
3	C Out	Gray	3
4	GND (For C Signal)	Black	4
Supplied Cable: 4-Pin harness cables with JST connectors on both ends. Length: 12.6-inches (320mm)			

CN-3 (DC, V-Lock and Video Connector)				
Pin Number	Name	Level	Wire Color	Pin Number
1	Power In	6V - 12V	Brown	9
2	GND (Power In)		Red	8
3	V LOCK PULSE INPUT		Orange	7
4	Video Out	Composite Video Signal	Yellow	6
5	GND (For Video)		Green	5
6	Y Out		Blue	4
7	GND (For Y)		Purple	3
8	C-Out		Gray	2
9	GND (For C)		White	1
Supplied Cable: 9-Pin harness cables with JST connectors on both ends. Length: 12.6-inches (320mm)				

CN-4 (For Communication Connector)				
Pin Number	Name	Level	Wire Color	Pin Number
1	T x D In	RS-232C Level	Brown	1
2	T x D In A	RS-422/485	Red	2
3	T x D In B	RS-422/485	Orange	3
4	R x D In	RS-232C Level	Yellow	4
5	TD	TTL Level	Green	5
6	R x D In Y	RS-422/485	Blue	6
7	R x D In Z	RS-422/485	Purple	7
8	RD	TTL Level	Gray	8
9	GND		White	9
10	NC		Black	10
Supplied Cable: 9-Pin harness cables with JST connectors on both ends. Length: 12.6-inches (320mm)				

S1 Position			
For	"On"	"Off"	Notes
RS-232	1,2	3,4,5,6	
TTL Direct	3,4	1,2,5,6	
RS-422/485	5,6	1,2,3,4	1
Notes: For RS-422/485 the termination jumper (JMP1) maybe removed if multiple cameras are being utilized.			