



## High-Definition Video Slip Rings



## ● Features

- ⦿ Broad Format Compatibility – Supports HD-SDI, 3G/6G/12G-SDI, HDMI, DVI, and DisplayPort standards.
- ⦿ Minimal Signal Loss – Engineered for high-frequency transmission with low insertion and reflection losses.
- ⦿ Stable Signal Performance – Consistent 75Ω impedance ensures clean, interference-free video quality.
- ⦿ Multi-Signal Integration – Handles video plus power, Ethernet, and control lines through a single unit.
- ⦿ Custom Configurations – Modular design with selectable connectors like BNC, SMA, and others.
- ⦿ Extended Operational Life – Designed for millions of revolutions with reliable performance.
- ⦿ Space-Saving Design – Compact structure for seamless integration into drones, gimbals, and automation systems.

## ● Video Signal Slip rings

JINPAT's Video Signal Slip Rings are engineered for seamless high-definition video transmission in rotary applications. Supporting HD-SDI, 3G-SDI, 6G-SDI, 12G-SDI, HDMI, DVI, and DisplayPort, they deliver stable, interference-free signal quality even in demanding, high-speed environments. With optimized impedance matching (75Ω), low insertion loss, and minimal return loss, these slip rings ensure clean, distortion-free transmission of high-frequency video signals. Their modular design allows flexible integration of video, power, Ethernet, and control signals within a compact, robust housing.

Offered with connector options like BNC, SMA, SMB, and F-type, JINPAT's video slip rings are easy to install and built for long-term reliability—capable of millions of revolutions. Perfect for gimbals, UAV pods, surveillance systems, radar turrets, and industrial inspection devices.

## ● Selection table

### SDI Slip Rings

JINPAT SDI Slip Rings support HD-SDI, 3G-SDI, 6G-SDI, and 12G-SDI for high-definition video transmission with minimal signal loss and high integrity. Designed for professional video and broadcast systems, they deliver stable performance even when integrated with power, Ethernet, or control signals. With standard 75Ω impedance and BNC/SMA connectors, they ensure full industry compatibility.

Typical Model	SDI				Circuits	Voltage	Size		Supports Other Signal Types
	HD-SDI	3G-SDI	6G-SDI	12G-SDI			Outer Diameter	Length	
LPMS-05D-0201-SD1	1				2*1A	0~48V	φ5.5	9.6	/
LPMS-12U-08S-01SD1	1				/	0~48V	φ6.5	17.4	8* Common Signal
LPMS-18-0204-0201-01SD1-05S	1				2(spare)+2 x4A	0~48V	φ7.9	22	5* Common Signal
LPM-18-0601-02SD1	2				6*1A	0~110V	φ11.2	23.5	/
LPM-24-18S-01SD1	1				/	0~110V	/	/	/
LPM-12YS-03SD1	3				/	0~110V	φ13.30	30	/
LPC-06A-02SD1	2				/	0~220V	φ22	19.2	/
LPC-24-0405-05S-01SD1	1				4*5A	0~220V	φ30	42.3	1* RS485 ; 2* Common Signal
LPC-76-0320-20S-01E3-01SD1-IP51	1				3*20A	0~220V	φ35.5	122	1*Gigabit Ethernet 20* Common Signal
LPMS-08A-0301-SD2-01S		1			3*1A	0~48V	φ9	11.7	1*I2C
LPMS-08A-0301-SD2-01S		1			5*1A	0~48V	φ10	13.6	/
LPMS-10B-0501-01SD2-01S		1			7*2A	0~110V	φ12.5	25.2	/
LPM-18-1202-01SD2		1			12*2A	0~110V	φ12.8	23.5	/
LPM-30B-0602-01E2-10S-02SD2		2			6*2A	0~110V	φ16	37	1*Fast Ethernet 1*CAN Signal 2*RS422 Signal
LPC-06-01SD2		1			/	0~220V	φ23	26	/
LPC-24A-04SD2		4			/	0~220V	φ22	42.3	/

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### SDI Slip Rings

JINPAT SDI Slip Rings support HD-SDI, 3G-SDI, 6G-SDI, and 12G-SDI for high-definition video transmission with minimal signal loss and high integrity. Designed for professional video and broadcast systems, they deliver stable performance even when integrated with power, Ethernet, or control signals. With standard 75Ω impedance and BNC/SMA connectors, they ensure full industry compatibility.

Typical Model	SDI				Circuits	Voltage	Size		Supports Other Signal Types
	HD-SDI	3G-SDI	6G-SDI	12G-SDI			Outer Diameter	Length	
LPC-56A-0405-02SD2-01E3-23S			2		4*5A	0~220V	φ25	85.7	1*Gigabit Ethernet 23* Common Signal
LPC-24T-0202-18S-02SD3			2		2*2A	0~220V	φ24.8	72.1	18* Common Signal
LPCC-01B			1	1	/	/	φ6.5	24.6	/
LPCC-01C			1	1	/	/	φ13.6	35.9	/
LPCC-01D			1	1	/	/	φ12.4	30.46	/

### HDMI Slip Rings

JINPAT SDI Slip Rings support HD-SDI, 3G-SDI, 6G-SDI, and 12G-SDI for high-definition video transmission with minimal signal loss and high integrity. Designed for professional video and broadcast systems, they deliver stable performance even when integrated with power, Ethernet, or control signals. With standard 75Ω impedance and BNC/SMA connectors, they ensure full industry compatibility.

Typical Model	SDI			Circuits	Voltage	Size		Supports Other Signal Types
	HDMI1.2	HDMI1.4	HDMI1			Outer Diameter	Length	
LPC-36A-10S-HDMI-U2	1			/	0~220V	φ22	57.3	1*USB2.0 10* Common Signal
LPM-30B-HDMI-U2		1		/	0~110V	φ16	37	1*USB2.0
LPM-30B-01HD		1		/	0~110V	φ16	37	/
LPM-18-0601-02SDLPM-30-01HD			1	/	0~110V	φ16	37	/

## ● Selection table

### DisplayPort Slip Rings

JINPAT DisplayPort Slip Rings enable high-bandwidth digital video transmission, supporting up to 8K resolution depending on configuration. Perfect for industrial imaging, simulation, and next-gen displays, they ensure excellent signal integrity across rotating interfaces and can be customized with additional channels like USB, power, or Ethernet.

Typical Model	SDI		Circuits	Voltage	Size		Supports Other Signal Types
	DP1.0	DP1.2			Outer Diameter	Length	
LPM-30-DP	/	1	/	0~110V	φ16	37	/
LPC-36A-01DP	/	1	/	0~220V	φ22	57.3	/
LPC-12YT-01U3-01DP	1	/	/	0~220V	φ24.8	74.5	1* USB3.0
LPC-0202-01U3-01DP	2	/	2*2A	0~220V	φ25	86	1* USB3.0
LPC-12T-0202-01U2-DP	1	/	2*2A	0~220V	φ24.8	74	1* USB3.0
LPC-24YT-0902-01U3-01DP	3	/	9*2A	0~220V	φ25	88.3	1* USB3.0

## ● Customization options

Note: The following special requirements can be customized, JINPAT most of the basic accessories are standardized, modular, non-standard customization can also greatly reduce the cost and delivery time.

- 1、 Customized rotor and stator outlet and outlet length
- 2、 Due to structural limitations, can be customized in accordance with the specified length or height or external diameter
- 3、 Yasukawa, Panasonic, Siemens and other servo system signals, power lines, and encoder lines mixed slip ring
- 4、 Mixed high-speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CANBUS, CANPUS). CANOPEN, DeviceNET, CC-LINK, ProPNET, EtherCAT and other types of industrial lines).
- 5、 Anti-shock, high temperature and other special environment customization
- 6、 Can be mixed with pneumatic, hydraulic rotary joints integrated pneumatic-electrical-hydraulic slip ring
- 7、 Military grade
- 8、 Waterproof, underwater mode optional, IP65, IP68 optional