



HDMI/3G-SDI Slip Ring

HDMI is a multi-media interface of high definition. Adopting the digital video/audio technology, it's compatible with digital connector for image transmission and can transfer audio and image signals simultaneously. SDI refers to Serial Digital Interface, with a standard instituted by Society of Motion Picture and Television Engineers (SMPTE). Nowadays they're in a widespread use, involving broadcasting and video industry. With the development of technology, the requirements of the slip ring systems are as various as the applications involving the HDMI/3G-SDI transmission.

JINPAT Electronics R&D Center has succeeded in developing new high-performance slip rings that support HDMI or 3G-SDI signals transmission. Such slip rings for high definition signal rotating transmission could be designed with special built-in wire diagram based on the Principle of Signal Transmission. All of them have passed a series of stringent tests. They replace the method of wires connection in the system with bended socket, which are developed first in the field. With a leading technique in the field, JINPAT electrical rotary joints achieve surprisingly a 4K@30Hz-2K@90Hz signal transmission with 360°continuous rotation, compatible with that below, and produce no error code. Also, there exists no interruption between the two signals and guarantees no transmission loss. They support the version of HDMI1.4 and standard of 3G-SDI at most, and offers a high bandwidth up to 10.2Gbps. Moreover, integrated transmission of power and other signals is workable while the excellent contact material ensures a low electrical noise and over-long service life. Options contain electric transmission method or photoelectric transmission method, and various connector types.

JINPAT Engineer Is Testing The Slip Ring For VR



Such a Slip Ring usually has the characteristics of precious metal contact, aluminum alloy housing, with a protection level up to IP65. It has a long service life up to 10 million turns and customizable wire length. Furthermore, it is water-proof, pressure-proof, vibration resistant and of good reliability and quality.

The slip ring for HDMI/3G-SDI is widely applied to broadcast television, photography and video and high-definition surveillance. VR, short for virtual reality technology, as a new technique, enters into people's horizon in numerous areas quickly. JINPAT, standing the advancing front of technology, keeps up with the trend by developing slip rings for VR. Slip Rings designed for VR Headset prompt users' experience a lot by changing the connection method without the rotary angular limits resulting from wires wrapping in the process of usage, as it can rotate continuously in 360 degrees.



- ◆ A high definition signal slip ring developed first by our company, taking the lead of originality in its area with advanced design idea and manufacturing technology.
- ◆ Be able to transmit HDMI high definition videos, together with USB3.0, power, and common signal at one time.
- ◆ Light and compact, lowering the weight of the whole set of VR equipment and installation space.
- ◆ Applied to VR area and a high definition video transmission in the rotation of VR instrument without interruption or data package loss during a very long-time operation.
- ◆ Stable transmission of HDMI video signal with 2K@90Hz, certified by stringent tests and acknowledged by all customers for years.