

# Wireless HDMI/SDI Transmission



- ◆ Uncompressed 3G/HD/SD-SDI and HDMI
- ◆ 5.1-5.9GHz license-free operation frequency
- ◆ 700 meters (LOS) transmission distance
- ◆ Less than 1ms latency



Dynacore DW-500 Wireless HDMI/SDI Transmission Suite utilize today's most advanced wireless video transmission technology, which can realize the broadcast-class and uncompressed 3G SDI/HDMI HD video signal transmitted with no compression and zero delay.

The suite include one transmitter and one receiver, where the transmitter provides a 3G/HD SDI input and a HDMI input, and the receiver also provide a 3G/HD SDI output and a HDMI output.

The wireless HD suite has 2 stick antennas in transmitter side, can work in 5.1-5.9GHz frequency band and be flexibly software configured to licensed or ISM band of global different regions, as well as the side panel of both transmitter and receiver has been installed a frequency select knob, which provide maximum 10 workable frequency channels, and support maximum 4 sets working simultaneously. The wireless suite can accept wide range DC power input, which is suitable for many kinds of camera battery model.

The suite also can sustain ±8 kV ESD (HBM, co-ntact discharge), the industry class metal case and professional heat design would guarantee most robust reliability.



### Features:

- ◆ Professional WHDI (MIMO/OFDM) technology.
- ◆ Uncompressed 3G/HD/SD-SDI and HDMI.
- ◆ 2-ch SDI/HDMI embedded audio transmission.
- ◆ 150 meters (LOS) transmission distance.
- ◆ Less than 1ms latency.
- ◆ 5.1-5.9GHz license-free operation frequency.
- ◆ User configurable frequency bands.
- ◆ Multicast – 1 transmitter to multi receivers.
- ◆ Less than 63mW radio power.
- ◆ AES 256bit encryption.
- ◆ All-metal housing, durable.
- ◆ Pure hardware connection; Plug and Play.



DW-500T Transmitter



### Input and Output:

- ◆ The transmitter DW-500T supports:  
3G/HD/SD-SDI input x1  
HDMI x1
- ◆ The receiver DW-500R supports:  
3G/HD/SD-SDI output x1  
HDMI x1
- ◆ The receiver SDI and HDMI are output simultaneously.
- ◆ If both SDI and HDMI is input to transmitter, the receiver will give priority to output SDI signal.



DW-500R Receiver

DW-500T Transmitter  
DW-500R Receiver

### The wireless system package provides:

- 1x DW-500T Transmitter (F970/D54S/U60 DV battery mount optional)
- 1x DW-500R Receiver (F970/D54S/U60 DV battery mount optional)
- 3x Antennas
- 1x Articulating arm trestle
- 1x Crab clamp
- 1x Cold shoe
- 2x D-tap to 4 pin pole cable
- 2x Flat screwdriver (for band configuration)
- 1x Airtight security box



Antennas



Articulating arm trestle



Crab clamp



Cold shoe



D-tap to 4 pin pole cable



Flat screwdriver



Airtight security box

### Specification:

| Model                            | DW-500T  | DW-500R   |
|----------------------------------|--|---|
| <b>Interface</b>                 | SDI Input (BNC Female)<br>HDMI Input (Type A female)<br>2 Antenna port (2 SMA male)<br>DC input (4 pin female) | SDI Output (BNC Female)<br>HDMI Output (Type A female)<br>DC input (4 pin female) |
| <b>SMPTE-425M</b>                | 1080P (60 / 59.94 / 50)  |   |
| <b>SMPTE-274M</b>                | 1080i (60 / 59.94 / 50)  |   |
| <b>SMPTE-RP211</b>               | 1080p (30 / 29.97 / 25 / 24 / 23.98)   |   |
| <b>SMPTE-296M</b>                | 1080psf (30 / 29.97 / 25 / 24 / 23.98)   |   |
| <b>SMPTE-125M</b>                | 720p (60 / 59.94 / 50)   |   |
| <b>ITU-R BT.656</b>              | 480i / 576i  |   |
| <b>HDMI Format</b>               | 576i (50)  |   |
| <b>Wireless Frequency</b>        | 1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)   |   |
| <b>Radio Modules</b>             | 1080i (60 / 59.94 / 50)  |   |
| <b>Max Transmission Distance</b> | 720p (60 / 59.94 / 50)   |   |
| <b>Latency</b>                   | 480i / 576i  |   |
| <b>Power Consumption</b>         | ≤6.0W  | ≤7.0W   |
| <b>Transmission Power</b>        | Max 21dBm  | /   |
| <b>Receiver Sensitivity</b>      | /  | -75dBm  |
| <b>Input voltage</b>             | DC / Battery: 6.5 ~ 17V  | DC / Battery: 6.5 ~ 17V   |
| <b>Working Environment</b>       | Temperature: 0°C ~ +40°C   |   |
| <b>Dimension</b>                 | 68×120×35(mm)<br>Don't Include Antennas  | 95×152×35(mm)<br>Don't Include Antennas   |
| <b>Net Weight</b>                | 0.25kg<br>Don't Include Antennas   | 0.40kg<br>Don't Include Antennas  |

\*Note: Currently D-W500 doesn't support ARRI ALEXA 1080PSF format video transmission.

Dynacore DW-2000&DWV-2000 Wireless HDMI/SDI Transmission System utilize today's most advanced wireless video transmission technology, which can realize the broadcast-class and uncompressed 3G SDI/HDMI HD video signal transmitted with no compression and no latency.

The suite includes one transmitter and one receiver, where the transmitter provides a 3G/HD SDI input and a HDMI input, and the receiver also provides a 3G/HD SDI output and a HDMI output.

The wireless HD suite has 2 stick antennas in transmitter side, and 5 stick antennas in receiver side, and it can work in 5.1-5.9GHz frequency band and be flexibly software configured to licensed or ISM band of global different regions.

The side panel of both transmitter and receiver have been installed a frequency switcher, which provides maximum 10 workable frequency channels, and supports maximum 4 sets working simultaneously.

The wireless suite can accept wide range DC power input, which is suitable for many kinds of camera battery model.

The suite also can sustain ±8 kV ESD (HBM, contact discharge), the industry class metal case and professional heat design would guarantee most robust reliability.



DW-2000T Transmitter

#### Features:

- ◆ Professional WHDI (MIMO/OFDM) technology.
- ◆ Uncompressed 3G/HD/SD-SDI and HDMI.
- ◆ 2-ch SDI/HDMI embedded audio transmission.
- ◆ 700 meters (LOS) transmission distance.
- ◆ Less than 1ms latency.
- ◆ 5.1-5.9GHz license-free operation frequency.
- ◆ User configurable frequency bands.
- ◆ Multicast – 1 transmitter to multi receivers.
- ◆ Less than 63mW radio power.
- ◆ AES 256bit encryption.
- ◆ The Transmitter DW-2000T is equipped with Various DV plates for option and 4 pin-male to D-Tap DC input.
- ◆ The transmitter DWV-2000T is equipped with 2 sides V-Mount/Gold Mount plates, to be directly fixed to the camera mount plate and mounted with battery and 4 pin-male to D-Tap DC input.
- ◆ The receiver DW-2000R is equipped with V-Mount/Gold Mount plates to be powered by batteries and 4 pin-male to D-Tap DC input.
- ◆ The receiver DWV-2000R is equipped with V-Mount/Gold Mount plates to be powered by batteries and 4 pin-male to D-Tap DC input.
- ◆ Both the transmitter and receiver can also be powered via the 4 pin male to the D-tap DC input.
- ◆ All-metal housing, durable.
- ◆ Pure hardware connection; Plug and Play.



DWV-2000T Transmitter



DW-2000R&DWV-2000R Receiver



DW-2000T Transmitter



DWV-2000T Transmitter



DW-2000R&DWV-2000R Receiver

#### Input and Output:

- ◆ The transmitter DW-2000T&DWV-2000T supports:  
3G/HD/SD-SDI input ×1  
HDMI ×1
- ◆ The receiver DW-2000R&DWV-2000R supports:  
3G/HD/SD-SDI output ×1  
HDMI ×1
- ◆ The receiver SDI and HDMI are output simultaneously.
- ◆ If both SDI and HDMI is input to transmitter, the receiver will give priority to output SDI signal.

**DW-2000 wireless system package provides**

- 1x DW-2000T Transmitter (F970/D54S/U60 DV battery mount optional)
- 1x DW-2000R Receiver (V-Mount / Gold Mount optional)
- 8x Antennas
- 1x Articulating arm trestle
- 1x Crab clamp
- 1x Cold shoe
- 2x D-tap to 4 pin pole cable
- 2x Flat screwdriver (for band configuration)
- 1x Airtight security box

**DWV-2000 wireless system package provides**

- 1x DWV-2000T Transmitter (V-Mount / Gold Mount optional)
- 1x DWV-2000R Receiver (V-Mount / Gold Mount optional)
- 8x Antennas
- 1x Articulating arm trestle
- 1x Crab clamp
- 1x Cold shoe
- 2x D-tap to 4 pin pole cable
- 2x Flat screwdriver (for band configuration)
- 1x Airtight security box



Antennas



Articulating arm trestle



Crab clamp



Cold shoe



D-tap to 4 pin pole cable



Flat screwdriver



Airtight security box

**Specification:**

| Model                            |                     | DW-2000T   | DWV-2000T   | DW-2000R<br>DWV-2000R   |
|----------------------------------|---------------------|--|---|---|
| <b>Interface</b>                 |                     | SDI Input (BNC Female)<br>HDMI Input (Type A female)<br>2 Antenna Port (PR-SMA male)<br>DC Input (4 pin female)            | SDI Input (BNC Female)<br>HDMI Input (Type A female)<br>2 Antenna Port (PR-SMA male)<br>DC Input (4 pin female) | SDI Output (BNC Female)<br>HDMI Output (Type A female)<br>5 Antenna Port (PR-SMA male)<br>DC Input (4 pin female) |
| <b>SDI Format</b>                | <b>SMPTE-425M</b>   | 1080P (60 / 59.94 / 50)<br>1080i (60 / 59.94 / 50)   |   |   |
|                                  | <b>SMPTE-274M</b>   | 1080p (30 / 29.97 / 25 / 24 / 23.98)   |   |   |
|                                  | <b>SMPTE-RP211</b>  | 1080psf (30 / 29.97 / 25 / 24 / 23.98)   |   |   |
|                                  | <b>SMPTE-296M</b>   | 720p (60 / 59.94 / 50)   |   |   |
|                                  | <b>SMPTE-125M</b>   | 480i / 576i  |   |   |
|                                  | <b>ITU-R BT.656</b> | 576i (50)  |   |   |
| <b>HDMI Format</b>               |                     | 1080p (60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98)<br>1080i (60 / 59.94 / 50)<br>720p (60 / 59.94 / 50)<br>480i / 576i |   |   |
| <b>Wireless Frequency</b>        |                     | 5.1~5.9GHz   |   |   |
| <b>Radio Modules</b>             |                     | OFDM 16QAM   |   |   |
| <b>Max Transmission Distance</b> |                     | Approx 700m (Line of sight)  |   |   |
| <b>Latency</b>                   |                     | ≤1 millisecond   |   |   |
| <b>Power Consumption</b>         |                     | ≤6.5W  | ≤6.5W   | ≤6.5W   |
| <b>Transmission Power</b>        |                     | Max 21dBm  | Max 21dBm   | /   |
| <b>Receiver Sensitivity</b>      |                     | /  | /   | -75dBm  |
| <b>Input voltage</b>             |                     | DC / Battery:6.5 ~ 17V   | DC / Battery:6.5 ~ 17V  | DC / Battery:6.5 ~ 17V  |
| <b>Working Environment</b>       |                     | Temperature: 0°C ~+40°C  |   |   |
| <b>Dimension</b>                 |                     | 68×123×38mm<br>Don't Include Antennas  | 98×187×58mm<br>Don't Include Antennas   | 126×188×47mm<br>Don't Include Antennas  |
| <b>Net Weight</b>                |                     | 0.25Kg<br>Don't Include Antennas   | 0.48Kg<br>Don't Include Antennas  | 0.65Kg<br>Don't Include Antennas  |