

CINEGEARS 4K WIRELESS TRANSMISSION SYSTEM

4K WIRELESS REDUNDANT VIDEO TRANSMISSION SYSTEM

大視科技無線視頻超低延時傳輸系統



Cinegears Wireless Video Transmission Systems have customizable software to fit the needs of any broadcasting environment. This proprietary technology is exclusive to Cine Gears Inc. and has been successfully used by BBC, CCTV, NHK, CNN, ABC, Show Cables, etc. for their major live broadcasting events. Cinegears Wireless Video has proven to be the best choice in wireless video transmission and live broadcasting streaming.

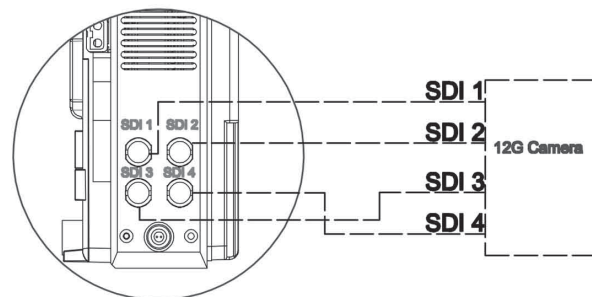
Year 2019, Cinegears 4K wireless video transmission systems with compact transmitters and receivers. Encrypted 4K broadcast video and audio signal will arrive in all its 10-bit, 4:4:2, 3840×2160, up to 60FPS, no latency, no compression. Features 1000 meters transmission range, 110KM /Hour fast moving subject compatible, 5GHz Amplifier, Live 5GHz Spectrum Scanning, Synchronization data, Meta data, Time Code, PTZ commands, Real-time Redundant signal management, Backup, Power management.

4K WIRELESS VIDEO TRANSMITTER

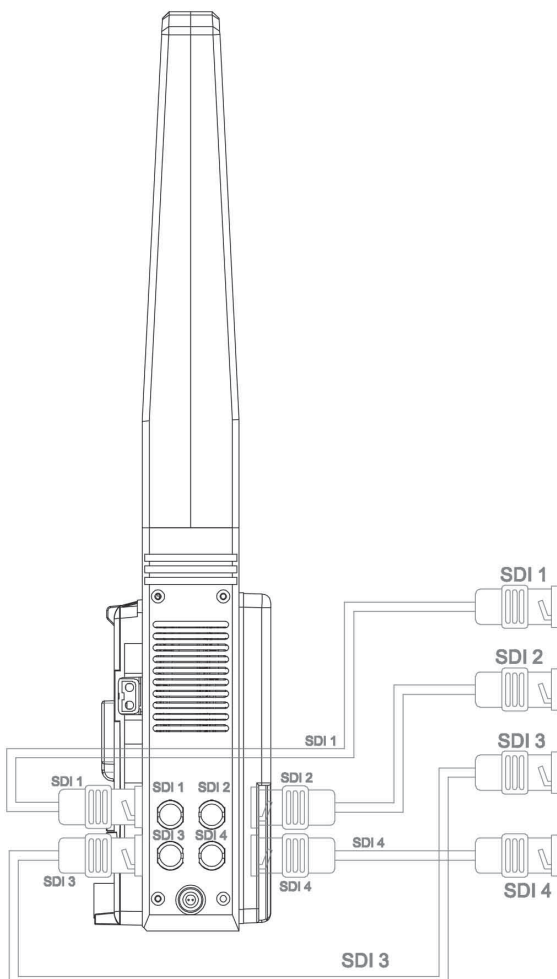
4K WIRELESS VIDEO TRANSMITTER



Up to 1000 meters transmission range.
110KM /Hour fast-moving subject compatible.
Encrypted 4K broadcast video and audio signal.
Signal of arrive in all its 10-bit, 4:4:2, 3840x2160.
Transmitting video with 60FPS, no latency,
no compression.
5GHz Amplifier, Live 5GHz Spectrum Scanning.
Featuring Synchronization data, Metadata,
Time Code, PTZ commands.
Bring real-time Redundant signal management,
Backup, Power management.



4K Transmitter Connection Method 1



4K Transmitter Connection Method 2

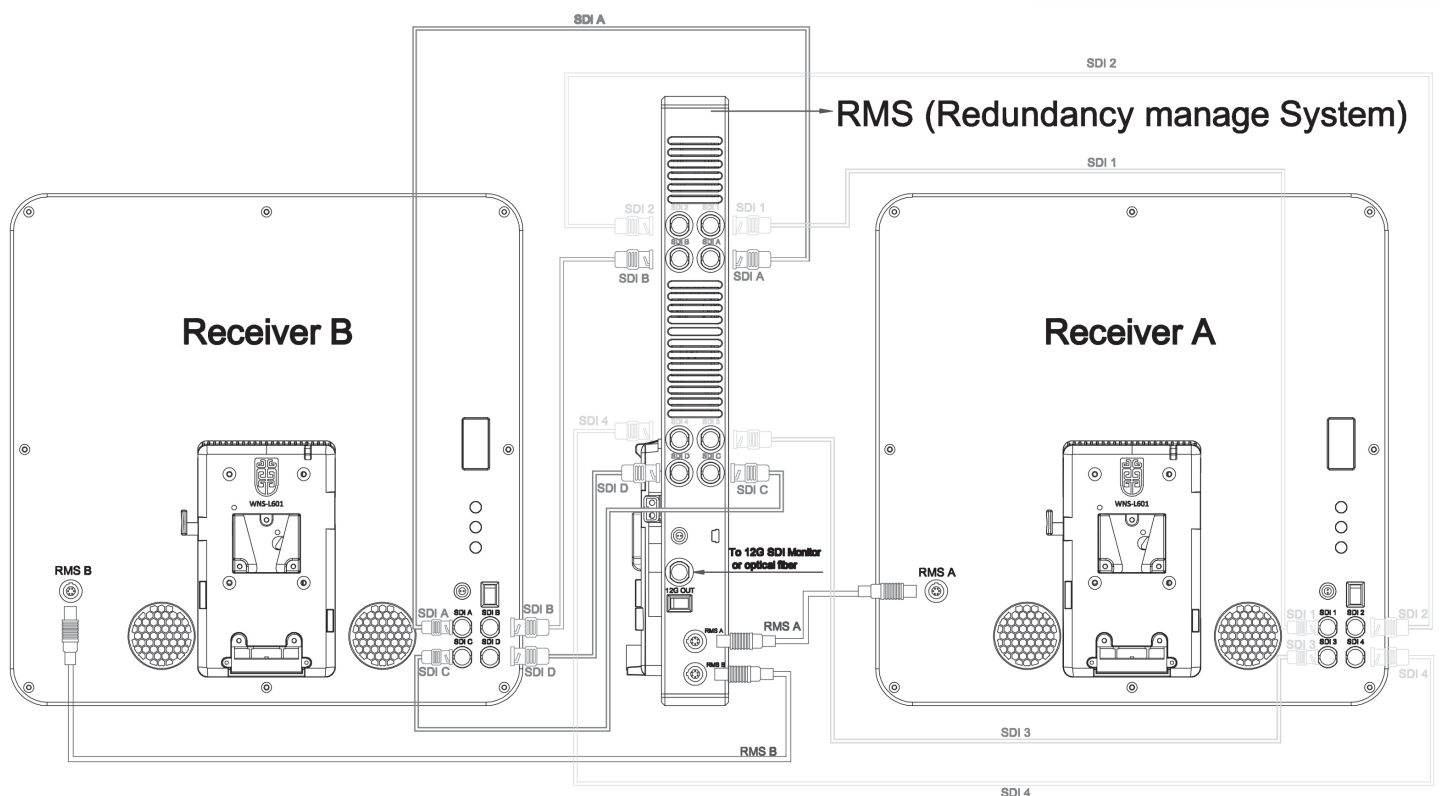
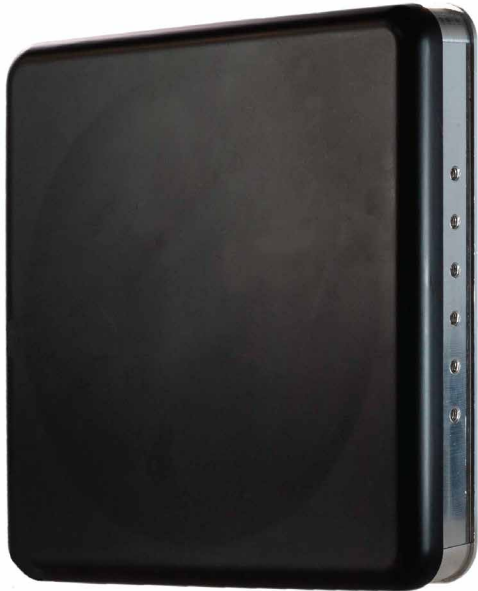
4K WIRELESS VIDEO TRANSMITTER

Item	Data specification
Video Formats Supported	2160p 23.98 / 24 / 25 / 30 / 50 / 60 (UHDTV1) 1080p 23.98 / 24 / 25 / 30 / 50 / 60 1080psf 23.98 / 24/ 25 1080i 50 / 59.94 / 60 720p 50 / 59.94 / 60 576p 576i 480p 480i 10 bpc (30 bit/px) or 12 bpc (36 bit/px) color depth(HDR) RGB, 4:4:4, 4:2:2, or 4:2:0 pixel encoding All format support 10-bit 4:2:2 color
Video encoding	None compression, XAVC, H.265 (HEVC)
Frequency	Free Frequency (EU): 5150 to 5250 MHz, 5725 to 5825 MHz Free Frequency (USA): 5150 to 5250 MHz, 5725 to 5825 MHz Free Frequency (JAP): 5150 to 5250 MHz Customized Frequency: 5150 to 7825 MHz
Transmission power	17dBm
Latency	≤ 1ms
Mechanical Interface	V-lock Battery / Gold mount, 12V DC input
Bandwidth	40MHz
Power consumption	9W
Transmission range	open environment: up to 1000m
Temperature	0 ~ 65 C (Working); - 20 ~ 100 C (Storage)
Over-voltage Protection	DC12V / 2A (7V ~ 36V)
Product Size	39.5cm (L) x 13cm (W) x 4.25cm (H)
Audio Format	PCM, DTS-HD, Dolby True HD, Broadcast SDI embed 16 Channels
Antenna Mode	Internal antenna / External antenna

4K HDR WIRELESS VIDEO RECEIVER

4K HDR WIRELESS VIDEO RECEIVER

4K receiver with built in 35x35cm panel antenna



4K HDR WIRELESS VIDEO RECEIVER

Item	Data specification
Video Formats Supported	2160p 23.98 / 24 / 25 / 30 / 50 / 60 (UHDTV1) 1080p 23.98 / 24 / 25 / 30 / 50 / 60 1080psf 23.98 / 24/ 25 1080i 50 / 59.94 / 60 720p 50 / 59.94 / 60 576p 576i 480p 480i 10 bpc (30 bit/px) or 12 bpc (36 bit/px) color depth(HDR) RGB, 4:4:4, 4:2:2, or 4:2:0 pixel encoding All format support 10-bit 4:2:2 color
Video encoding	None compression, XAVC, H.265 (HEVC)
Frequency	Free Frequency (EU): 5150 to 5250 MHz, 5725 to 5825 MHz Free Frequency (USA): 5150 to 5250 MHz, 5725 to 5825 MHz Free Frequency (JAP): 5150 to 5250 MHz Customized Frequency: 5150 to 7825 MHz
Transmission power	17dBm
Latency	≤ 1ms
Mechanical Interface	V-lock Battery / Gold mount, 12V DC input
Bandwidth	40MHz
Power consumption	9W
Transmission range	open environment: up to 1000m
Temperature	0 ~ 65 C (Working); - 20 ~ 100 C (Storage)
Over-voltage Protection	DC12V / 2A (7V ~ 36V)
Product Size	30.5cm (L) x 30.5cm (W) x 5cm (H)
Audio Format	PCM, DTS-HD, Dolby True HD, Broadcast SDI embed 16 Channels
Antenna Mode	Internal antenna / External antenna

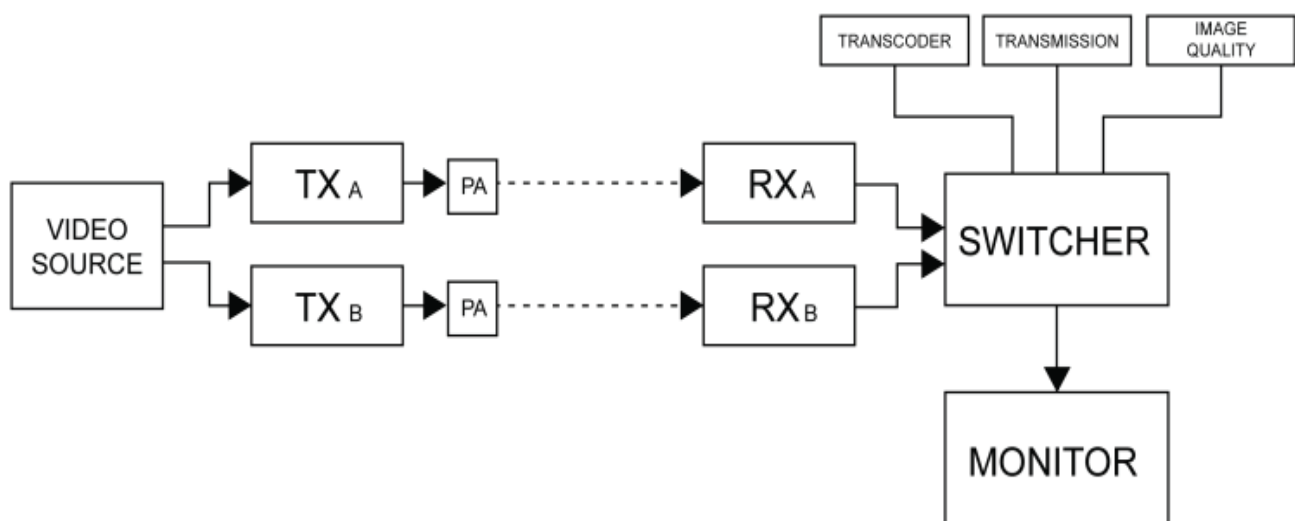
4K WIRELESS VIDEO REDUNDANT MANAGEMENT SYSTEM

4K WIRELESS VIDEO REDUNDANT MANAGEMENT SYSTEM

Revolutionary new system to ensure your live feed will be the best signal possible. Active switching between receivers when as needed to ensure the stream is not lost.



The Ghost-Eye Redundant Management RMS Receiver is an integral part of the revolutionary Redundant Management System. The Receiver works best as a pair and utilizes proprietary circuitry to update the RMS Switcher which in turn offers users stability that is needed when working with live action.



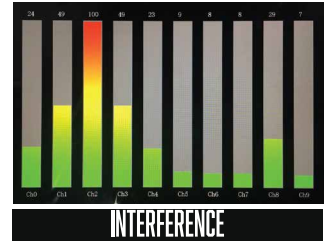
4K WIRELESS VIDEO REDUNDANT MANAGEMENT SYSTEM

Item	Data specification
Video Formats Supported	2160p 23.98 / 24 / 25 / 30 / 50 / 60 (UHDTV1) 1080p 23.98 / 24 / 25 / 30 / 50 / 60 1080psf 23.98 / 24/ 25 1080i 50 / 59.94 / 60 720p 50 / 59.94 / 60 576p 576i 480p 480i 10 bpc (30 bit/px) or 12 bpc (36 bit/px) color depth(HDR) RGB, 4:4:4, 4:2:2, or 4:2:0 pixel encoding All format support 10-bit 4:2:2 color
Video input and output	2 x 4x3G SDI input, 1 x 12G SDI output
Data IO	6Pin Limo, Cat5 Ethernet
Data range	2 x 1000Meters
Latency	≤ 1frame
Mechanical Interface	V-lock Battery / Gold mount, 12V DC input
On board memory	4 TB DDR 5
Power consumption	12W
Temperature	0 ~ 65 C (Working); - 20 ~ 100 C (Storage)
Over-voltage Protection	DC12V / 2A (7V ~ 36V)
Product Size	4cm (L) x 36.5cm (W) x 11cm (H)



A bar chart titled "NO INTERFERENCE" showing the number of trials for each condition. The x-axis lists conditions 1 through 9. The y-axis represents the number of trials, with a scale from 0 to 14. The bars are light gray, and the number of trials is printed above each bar. Condition 1 has 14 trials, Condition 2 has 13, Condition 3 has 13, Condition 4 has 13, Condition 5 has 13, Condition 6 has 13, Condition 7 has 13, Condition 8 has 12, Condition 9 has 12, and Condition 10 has 12. There is a small green bar at the bottom of Condition 10.

Condition	Number of Trials
1	14
2	13
3	13
4	13
5	13
6	13
7	13
8	12
9	12
10	12

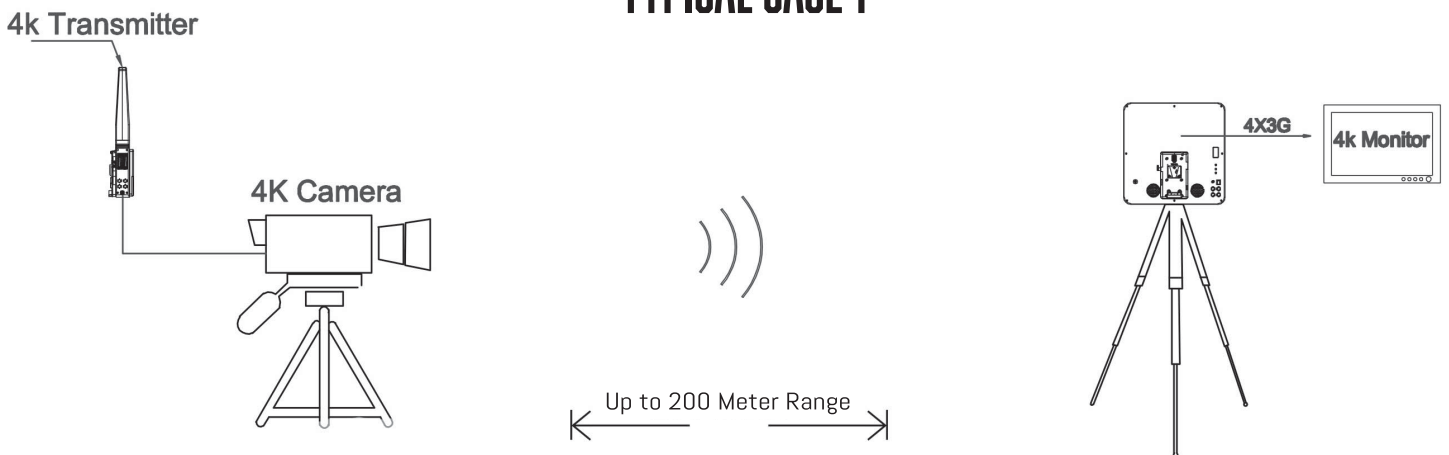


Real-time 5 GHz dynamically spectrum scan band wireless channels status.
Built-in HD 1080P, 60fsp, 800LUM high brightness broadcast IPS monitor.
Built-in high power 5GHz panel antenna.
Receiving distances up to 1000 meters.
Integrated SDI/HDMI video output.
Built-in speaker, stereo audio output.
Flexible and sturdy integrated unibody design.

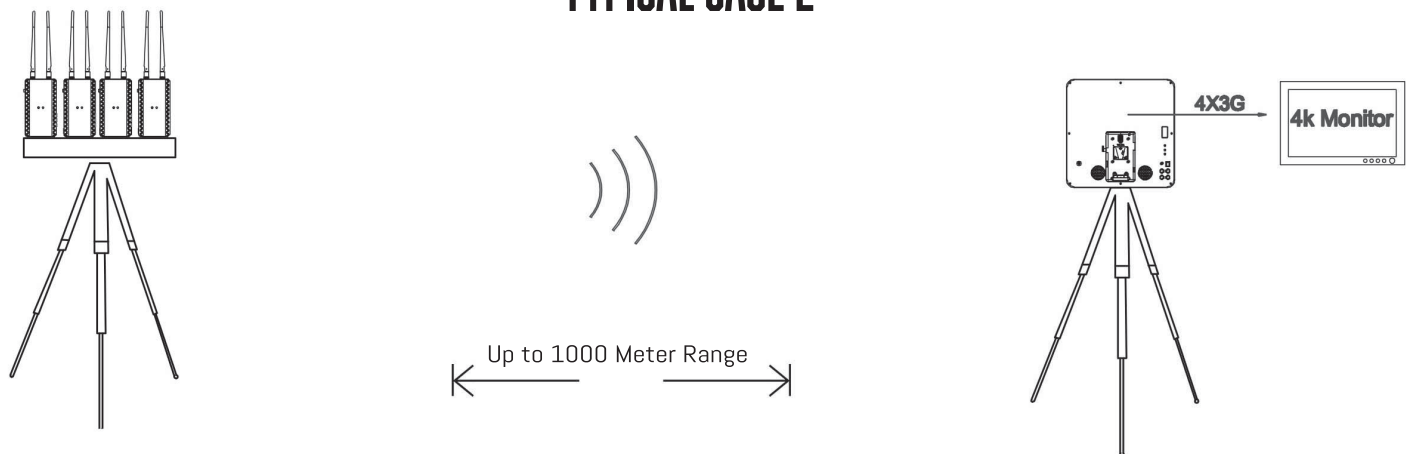


TYPICAL CASES

TYPICAL CASE 1



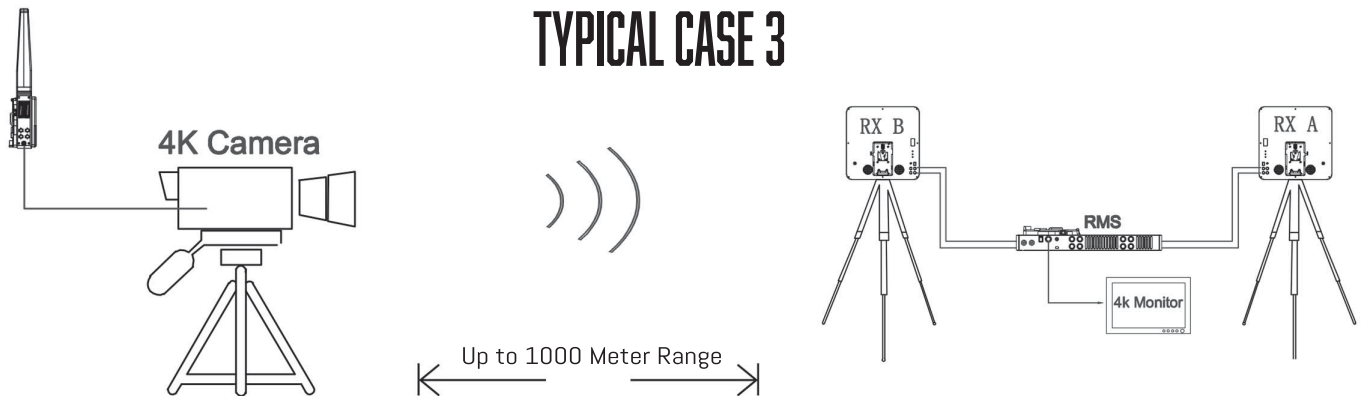
TYPICAL CASE 2



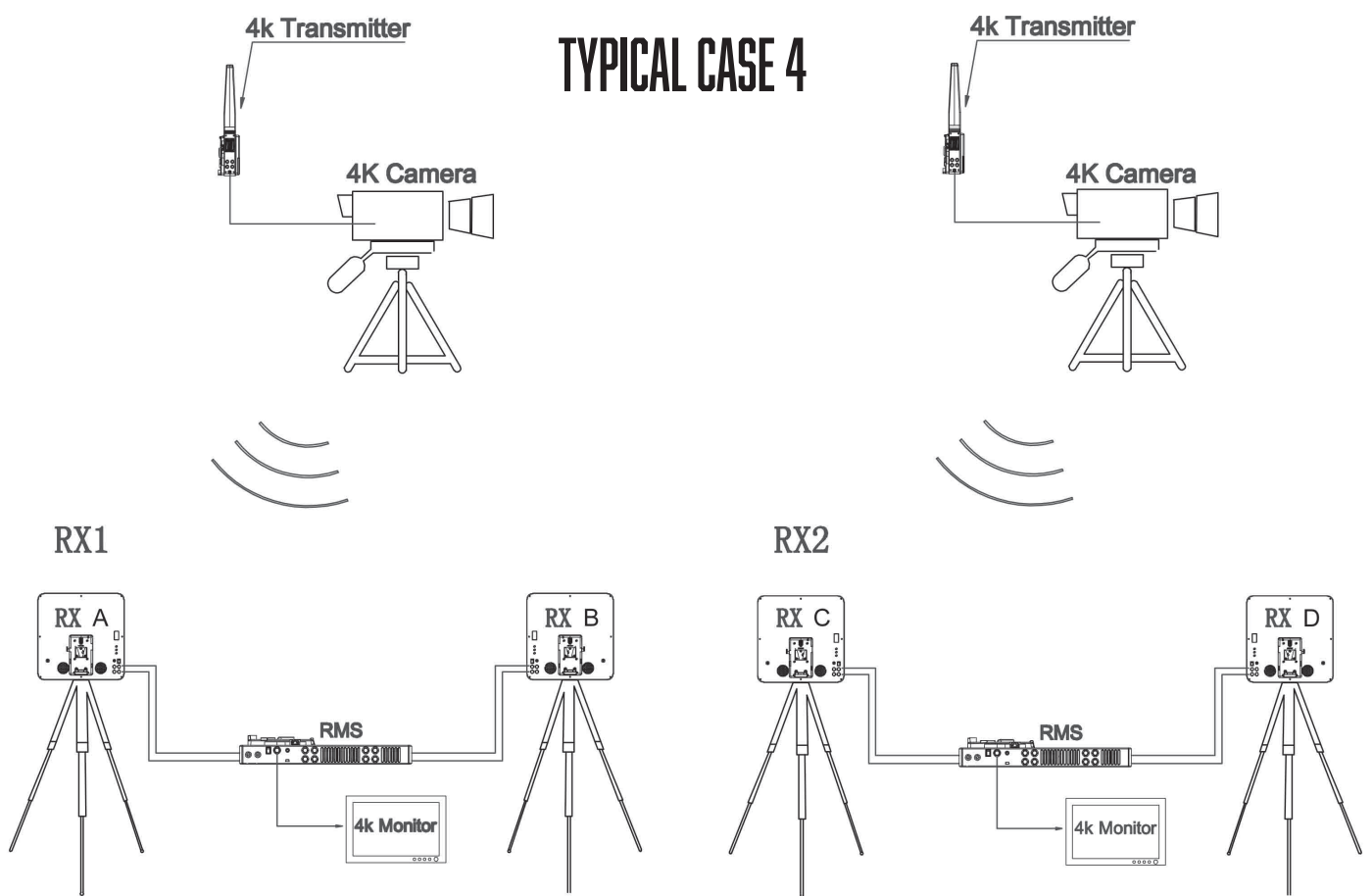
Two RMS transmitters are connected to the SDI video source of the camera at the same time, and Two RMS transmitters set different wireless channels. Two RMS receivers set the wireless channel corresponding to RMS transmitters. After RMS receivers are properly connected to the RMS Switcher, the video signal output by the RMS Switcher will seamlessly display the best signal quality of the two sets of pictures.

TYPICAL CASES

TYPICAL CASE 3



TYPICAL CASE 4



When moving shooting is required, there are obstacles in the shooting field to block the wireless transmission signal, or the shooting scene is too empty to exceed the coverage of a single wireless signal. The No. 1 RMS transmitter is connected to the camera's SDI video source, and the wireless channels of the two RMS receivers are set to be the same as the No. 1 RMS transmitter. After RMS receivers are properly connected to the RMS Switcher, the video signal output through the RMS Switcher will automatically switch to display an RMS-RX video signal which has the better signal quality according to different positions in the mobile shooting.