

SUVTM
Simple Ubiquitous Video

SUV WEFP HD8K2XI



Sports



Ski Jump / Events



Education / Digital Signage



Airborne / Live Broadcast

Whether it's a live broadcast to be seen by millions of people around the world, a trek up the Himalayas, a motor racing shoot, airborne news coverage, an urgent channel add-on, a laptop projection, or a dream wedding, Shining Technology's new All Wireless EFP set answers the call. After simple, seamless installation, it provides short or long range H.264 HD/SD, which includes in-field audio and video that are ubiquitously transmitted to the professional monitor, display panel, large screen TV, video wall, video mixer, video server, or satellite uplink.

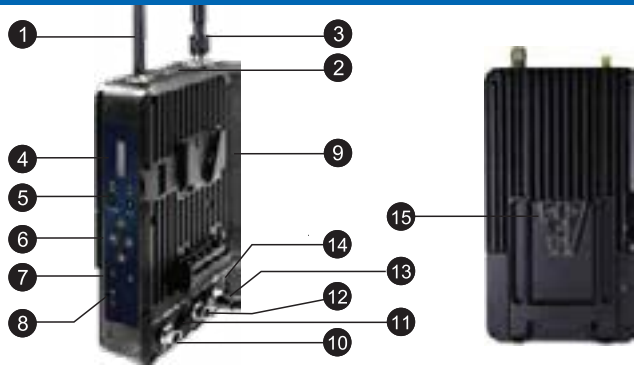
Key Features

- Wireless: never worry about cable-tripping injuries
- All Wireless Video downlink, RCP, Tally and Intercom functions in one system
- Ideally suited for mobile camera shootings, such as reality TV shows, sports broadcasting, location scouting, outdoor discovery, and documentary shoots
- Make planning event coverage quicker and easier by moving and positioning the cables via team members' Intercom
- Automatically detects any of three video inputs (a professional SDI video source, an HDMI action camera, or a legacy composite video camera) and simultaneously prioritizes input sent to the receivers' SDI/HDMI/ASI two video outputs
- Swap different sets of RF-transmitting power modules, down converters, and antennas to utilize the equipment in various environments and countries
- Dual diversity receiving antennas improve the quality and reliability of the wireless link
- Adjustable transmitter's COFDM parameters to optimize the video quality and range

Optimize Between Video Quality and Range

- Select the private operating frequency band, if possible.
- Select the lower operating frequency band, if possible.
- Clear obstacles in between transmitter and receiving antenna; place both receiving antennas as high as possible with at least 10 meters apart; clear away from metal objects; replace receiving omni antenna by directional antenna (i.e. dish antenna) if possible
- Choose 1-frame latency, 6 or 8 MHz bandwidth, 8 Mbps bitrates and QPSK modulation for optimal results
- Program the transmitter's output power below the allowed maximum input power level of the external RF power amplifier

Transmitter Unit



Item	Description
1	UHF RP-SMA antenna port
2	Tally out
3	RF F female antenna port
4	LCD screen
5	Intercom On Tx on
6	Navigation keys
7	"X" escape, "O" confirm key
8	Power On
9	Female V-lock
10	Microphone
11	Camera control
12	External audio in
13	Video BNC in
14	Video HDMI in
15	Male V-lock

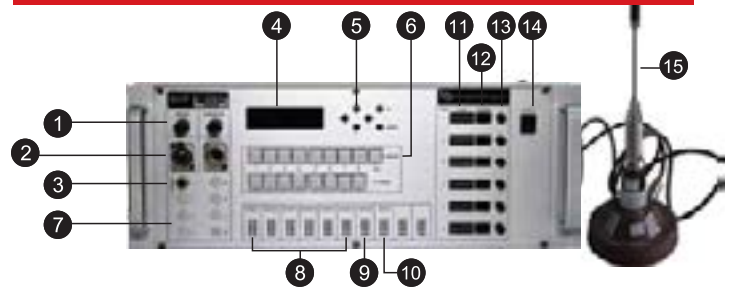
Transmitter's Main Module Specifications

- Navigation panel selects following transmitting parameters:

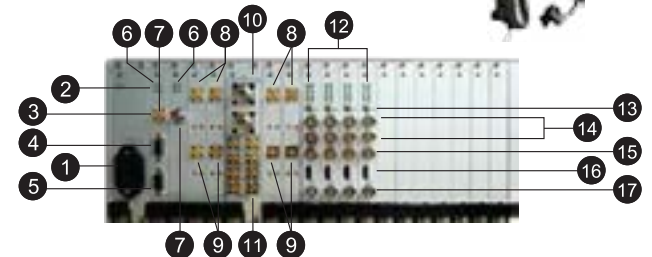
Parameter	Range	Step
RF Power	7 – 200 mW	1 dbm
Carrier frequency HD8K22	2.0 - 2.7 GHz	50 MHz
	HD8K23 3.0 - 3.5 GHz	
Bitrate	2 - 30 Mbps	1 Mbps
Delay	1-, 3- or 19- frame	
Chroma-YUV only	4:2:2 OR 4:2:0	
Bandwidth	2-8 MHz	1 Mbps
Modulation	QPSK, 16-QAM or 64-QAM	
Guard Interval	¼, 1/8, 1/16 or 1/32	
Error Correction Code	½, 2/3, 5/6 or 7/8	

- One LCD display the system information
- One FullHD-SDI/CVBS + audio's and one HDMI video inputs
- HD/SD video & audio encoded in 10-bit H.264 data and Modulated in DVBT QPSK/16QAM/64QAM constellation compound to 2-30 Mbps
- Ruggedized & anodized aluminum body sandwiched in between V-/G-lock
- Battery and camera optimized for extreme, hostile and rugged conditions

Receiver Unit



Item	Description
1	Mic & Earphone volume adjustment knobs
2	Mic & Earphone sockets
3	Channel 1-8 RCP sockets
4	LCD screen
5	Navigation and confirm & exit keys
6	Channel 1-8 Intercom selection and talk
7	Channel 1-8 RCP's selection
8	Channel 1-6 Decoding LED's
9	Intercom activity LED
10	RCP activity LED
11	Channel 1-6 Downlink video signal strength
12	Channel 1-6 Downlink video frequency band
13	Channel 1-6 Downlink video frequency band selection knob
14	Power On/Off
15	UHF antenna and base
16	Mic & Earphone



Item	Description
1	100-240 AC in
2	UHF signal receiving strength
3	UHF antenna SMA female
4	LINE IN/OUT – external intercom panel input
5	Tally's in DB9 (pin9 ground)
6	SYNC IN activity LED's
7	SYNC IN BNC connector
8	RF IN A(up to 4 channels)
9	RF IN B(up to 4 channels)
10	ANT 1,2 port
11	Down converted RF OUT A, B, connect to RF IN A, B
12	Video output signal activity LED's
13	PGM - disabled
14	Video output SDI 1,2
15	CVBS/Y output
16	HDMI output
17	External audio output