

Your ENG Camera mounts with an extremely light weight (below 0.8kg) and compact RF transmitter of Broadcast HD-SDI quality!

Wider Area covered and Super-Mobility

Distance of 200 to 800 meters with 64QAM high bit rate mode with high sensitive antennas.

Great Stability through RF Transmission

Combination of COFDM and Space Diversity with powerful Forward Error Correction to extend a high immunity from multi-path interference.

Less 100ms of Latency

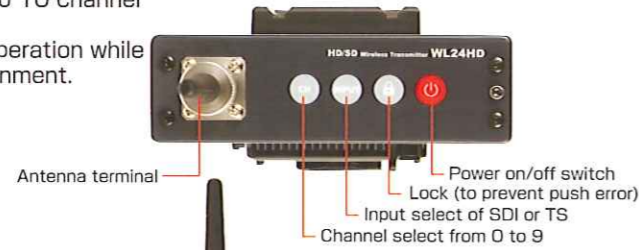
Real-time video picture reproduced on a large Screen at Sport Stadium while live broadcasting.

License free ISM Band of 2.4GHz

No RF license is required anywhere and any time for your operation.

Transmitter WL24HD

- Modulation of 16/64QAM and COFDM.
- Video interfaced with SD-SDI or HD-SDI switchable.
- Built-in H.264 encoder.
- HD-SDI 1080i/720P or SD-SDI(480i) usable for both NTSC and PAL countries.
- Audio 4-ch Embedded with SDI signal.
- Simultaneous transmission upto 10 channel operable in the same RF area.
- Approval of IP55 allows a full operation while raining and heavily dusty environment.



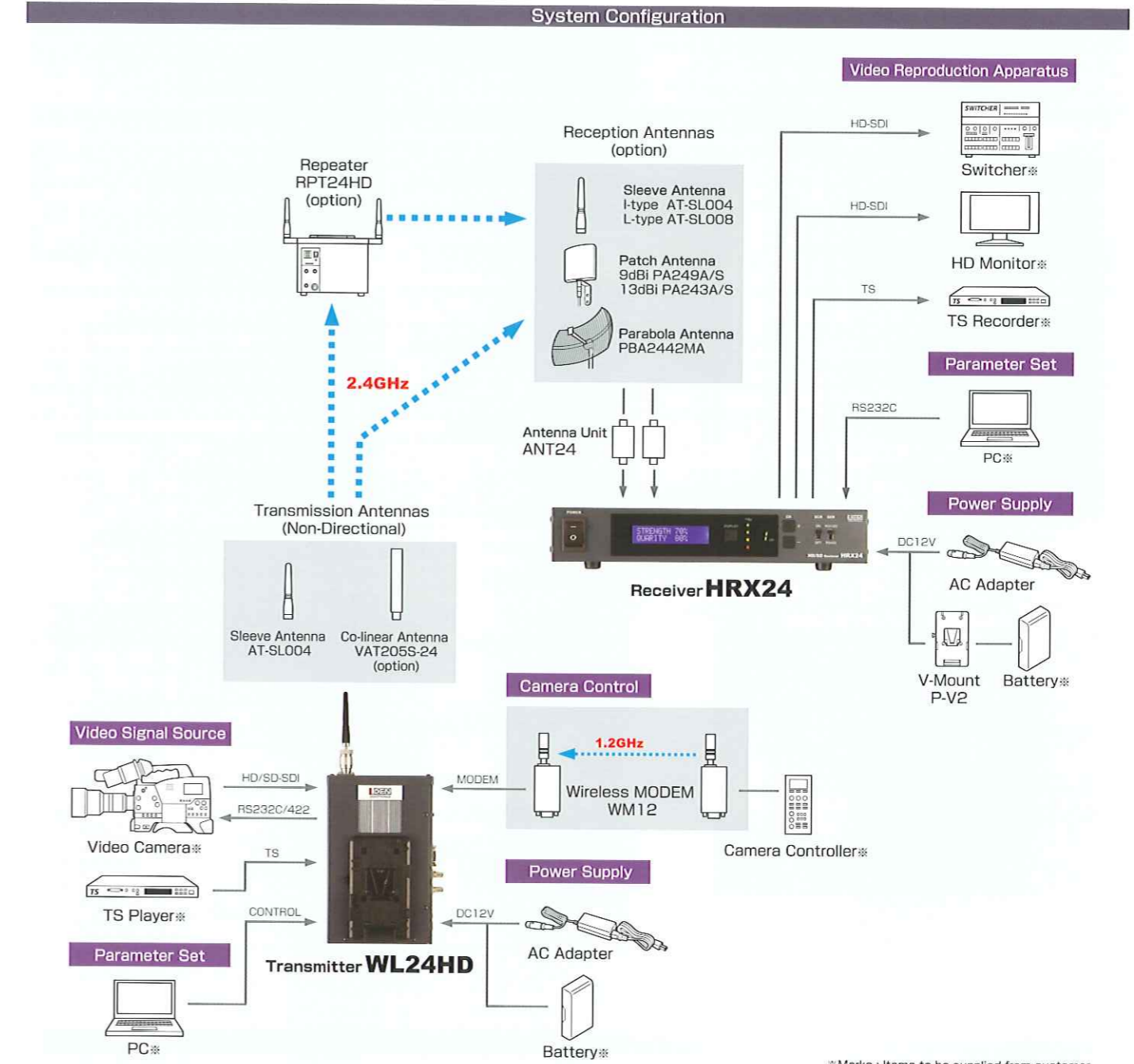
- SDI Input Select light
- TS Input light
- Scramble on/off light
- Lock on/off
- Transmission-Started
- Transmission-Initializing
- Channel Number
- Battery leftover level
- MODEM on/off



- MODEM connection
- RS232C connection for Transmitter setup
- TS input
- SDI input
- DC12V Power input

Wireless Remote Camera Control

Optional MODEM Unit WM12 works wireless from CCU to Camera for camera setup.



Receiver HRX24

- Multi-functional RF Receiver.
- H.264 decoder is builtin.
- Double Demodulation of COFDM and 16QAM or 64QAM
- Space Diversity Antenna (maximum ratio combining)
- RF reception sensitivity to be shown on the front LCD in figure and Green/Yellow/Red in color at same time.
- DC power supply to ANT24 Antenna units.
- Video and Audio scrambled by on/off switch on front panel.
- Channel (0 to 9) selectable by push bottom on front panel.
- 2 X HD-SDI and 1 x TS outputs are available from back panel.
- Analog Video of either VBS output from Y-BNC or YC signal from Pb-BNC and Pr-BNC is provided automatically when SD-SDI is input, or COMPONENT is from Y, Pb & Pr when HD-SDI is input at WL24HD Transmitter.
- Various reception antenna is available as option depending on the distance required.
- Battery adapter V-mount is available as option on the top panel for a field use.



*Marks : Items to be supplied from customer.

Transmitter WL24HD
Receiver HRX24
Correlation between Antenna & Distance

Reception Antenna Type	Distance expectable to transmit
 Sleeve Antenna AT-SL004 & AT-SL008	200m
 Patch Antenna (9dBi) PA2409A/S	300m
 Patch Antenna (13dBi) PA2413A/S	400m
 Parabola Antenna PBA242MA	800m

Small Antenna Unit fits anywhere to install

Specifications
WL24HD Specifications

RF System	One way real time stream
Carrier Frequency	2.4GHz (2400 to 2483.5MHz)
Modulation	COFDM, 16QAM/64QAM
RF Power	10mW/MHz
Occupied Bandwidth	Less than 8MHz
Transmission Distance@LOS	200 to 800m depending on antenna
Error Correction	Reed Solomon R=1/2, 2/3, 5/6, 7/8
Scramble (Encryption)	128bit (Government recommendation)
Encoding	H.264 high profile
Video Interface	HD-SDI (1080i or 720P) or SD-SDI (480i or 576i)
Audio Interface	4-ch Embedded with HD/SD-SDI
Latency (end to end)	Below 100ms
Power	DC12V(11 to 16V) AC adapter or Battery
Operable Temperature & Humidity	0 to 50°C, 90%RH
Dimension	232(W) x 146(D) x 42(H)mm.
weight	0.8Kg excluding V-mount adapter

HRX24 Specifications

RF System	One way real time stream
Carrier Frequency	2.4GHz (2400 to 2483.5MHz)
Demodulation	COFDM, 16QAM/64QAM
Occupied Bandwidth	Less than 8MHz
Antenna	Space diversity (maximum ratio combining)
Error Correction	Reed Solomon R=1/2, 2/3, 5/6, 7/8
Descramble (Encryption)	128bit (Government recommendation)
Decoding	H.264 high profile
Video Interface(1)	HD-SDI (1080i or 720P) or SD-SDI (480i or 576i)
Video Interface(2) analog	YPbPr at HD-SDI input VBS or YC at SD-SDI input
Audio Interface	4-ch Embedded with HD/SD-SDI
TS Interface	DVB-ASI output
Power	DC12V(11 to 16V) AC adapter or Battery
Operable Temperature & Humidity	0 to 50°C, 90%RH
Dimension	255(W) x 190(D) x 44(H)mm
weight	0.9Kg

MODEM Specifications

Carrier Frequency	1216MHz
Transmission Distance@LOS	600m
Data Transmission Speed	RS232C 9600bps
Latency	50ms
Dimension of Tx & Rx	80(W) x 52(D) x 25(H)mm each
Weight of Tx & Rx	131g each

Various ENG Cameras are sustained as ;



*Specifications are subject to change without prior notice for engineering improvement.

