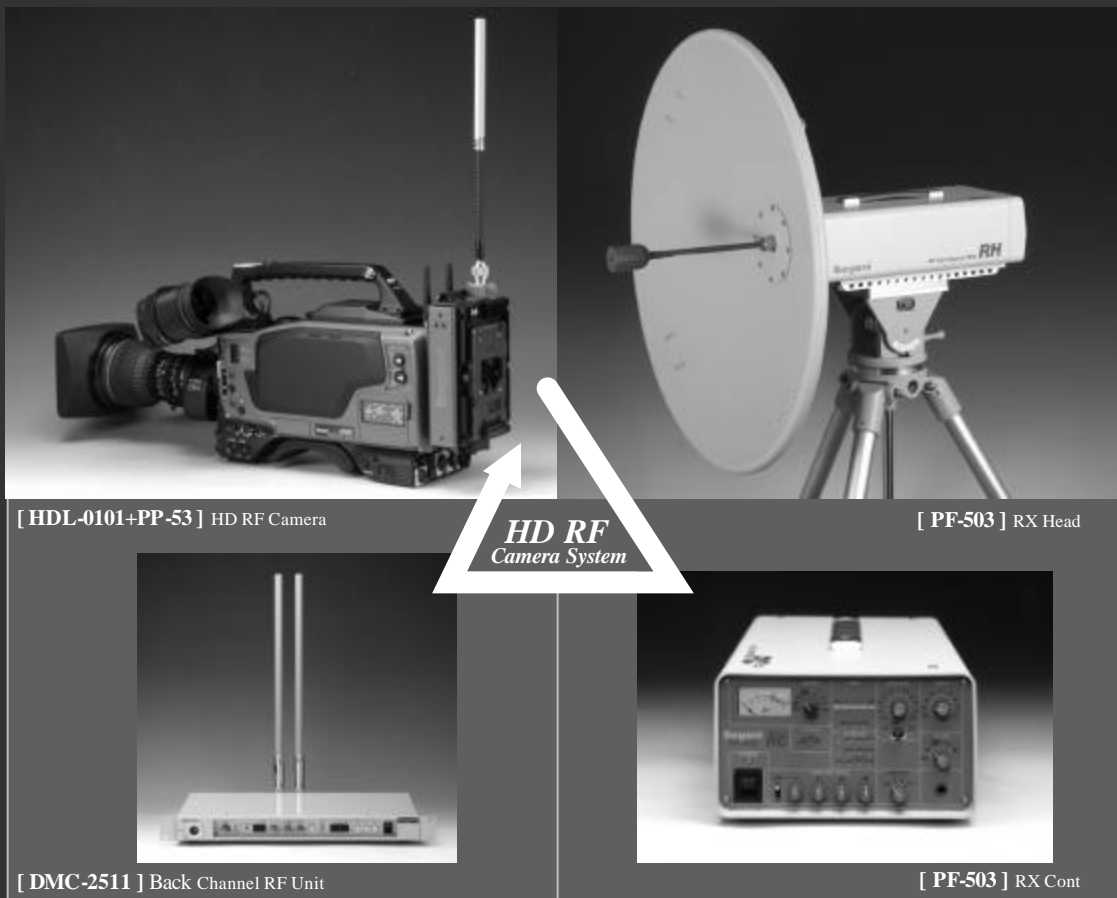


Ikegami

Ikegami Advanced RF Solution

HD RF Camera System



The first HD RF Camera in the Market.

The compact camera body and RF Unit allows one-person shooting just like one-piece camcorder.

RF transmission releases the operator from limitation of cable extension.

Wireless configuration enhances the broadcasting of sports, news, and other remote shooting.

According to the shooting and transmitting conditions, 4 preset bit rates can be selectable.

When used with DMC-2511 Back Channel RF Unit and RM-11 Remote Controller (HDL-0101 Version), intercom communication and basic camera control are available. OFDM Modulation and Error Correction facility enhance stable transmission in various shooting situations.

**This HD Wireless RF Camera was developed with technical support from NHK and NTS.*

Ikegami Advanced RF Solution

HD RF Camera System

Ratings / Performance

HDL-0101 Camera Section

Scanning System:	1080i/59.94Hz
CCD Image Sensor:	2/3-inch FIT CCD x3
Picture Element:	H1920xV1080, 2,200,000-pixels
Optical System:	2/3-inch, 3CCD, f1.4
Lens Mount:	2/3-inch, BTA-S1005B
Optical Filter:	CC: 3200K, 4300K, 6300K, Cross ND: 100%, 25%, 6.2%, 1.6%
Shutter:	OFF(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec.
Quantization:	12-bit
Sensitivity:	f9 at 2000 Lux
Minimum Illumination:	2 Lux (f1.4, +30dB)
S/N:	54dB
Limiting Resolution:	1,000TVL

MPEG Encoder

Video:	
Video Format:	1080i(1920x1080), 29.97Hz per Frame
Profile Level:	422P@HL(4:2:2) / MP@HL(4:2:0)
Encoding Control Mode:	CBR
Audio:	
Sampling Frequency:	48KHz
Encoding Format:	MPEG-1(Layer-2)
Data Rate:	Up to 384Kbps
Streaming:	
Streaming Format:	MPEG-2 Transport Stream
Multiplexing:	Video x1, Audio x2
Interface:	DVB-ASI

HDL-0101 and PP-53 Common Section

Power Requirement:	DC+12V(+12 to +16V)
Power Consumption:	77W approx.
Weight:	7kg / 15.5lb approx. (including VF and RF Unit)
Dimensions:	
Camera Body:	W138.5 × H273 × D343mm/ W5.45 × H10.75 × D13.5inches
RF Unit:	W131 × H170 × D 65mm / W5.15 × H 6.69 × D2.56inches
PGM Transmission Distance:	800m Typical
*Condition: Omni Directional TX Antenna and 30cm Parabolic Dish(G=22dBi) RX Antenna,7GHz Band, Line-of-site,16QAM(1/2)- and Transmission Margin:20dB	
OFDM,Multi-path	
*Transmission Distance is changed by operating condition and environmental factors.	

OFDM Modulation

Bit Rate:	59.648Mbps/44.736Mbps/29.825Mbps/23.859Mbps
Modulation:	64QAM / 32QAM / 16QAM
Band Width:	17.12MHz

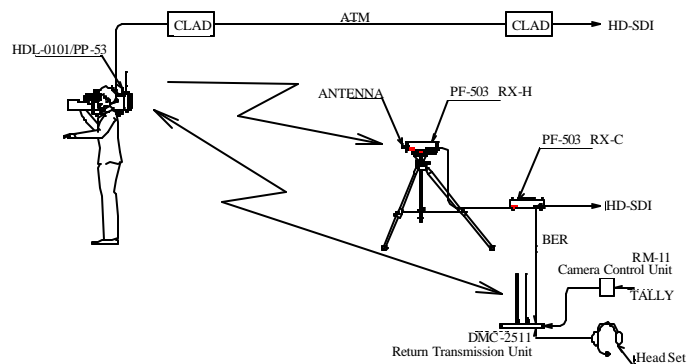
PP-53 TX RF Section

IF Input Signal:	20.4045074MHz, 10dBm, 50ohm
Output Frequency Range:	6435/6489/7026/7044MHz
*One frequency range can be chosen by cassette exchange.	
*10GHz Band Type: Future Option	
Output Freq. Distortion:	+/-7ppm or better
Output Level:	+17dBm, 50ohm
Output Level Distortion:	+/-50% or better
Output Spectrum:	-37dB or better at +/-9MHz
Output Spurious:	50 microW or better

DMC-2511 Back Channel RF Unit

Transmission Format:	Spectrum Spread(IEEE802.11b)
Transmission Distance:	500m Typical (Line-in-site, Antenna Gain: 6dBi)
Camera Control(with RM-11):	Data Rate: 9,600bps
Latency:	Within 90msec.
Camera ON/OFF Setting:	Gain Up(Normal/Mid/High), Red Tally, CAM/BAR Selection
Camera Parameter Setting:	Iris Control, R-ch/B-ch Gain, Master/R-ch/B-ch Pedestal Level
Intercom System:	Standard Head Set, Clear-Com or 4-Wire selectable

System Diagram



Design and Specifications are subject to change without notice.

SH47A044-SELF0.5

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