

# Ikegami

## HDL-4500 HDK-5500

Super High Sensitivity 3CMOS HDTV Camera System



Super High Sensitivity, High Definition and Clear Images under any illumination



Super High Sensitivity 3CMOS HDTV Box Camera

# HDL-4500

## ● Multi-sampling type High Sensitivity 2/3-inch CMOS Sensor

Incorporating 1.3 mega pixel high-speed multi-sampling type super high sensitivity CMOS sensors allows sufficient sensitivity for shooting without using any lights even under moonlight conditions (0.001 lx/F1.4, 60fps). Also, the camera reproduces clear moving pictures in color at standard frame rates, achieving superb quick motion response.



■ Standard HDTV Camera (12dB)

■ HDL-4500 (12dB)



HDL-4500's video sample

## ● Advanced Full Digital Processing LSI (ASIC) (Support for Daytime Operation)

Since the camera employs the same digital processing LSI (ASIC) as other broadcasting cameras, it achieves high resolution and accurate color reproduction under day time and normal lighting conditions. There is no loss of quality caused by the difference of illumination.

### HDL-4500

Equipped with various functions such as Digital Extender, AVC (Auto Video-level Control) and ATW (Auto Tracking White balance) for convenient operation. With its compact one-piece form factor, the camera is suitable for various POV applications such as a traffic and weather camera, as well as, a wide range of surveillance applications.

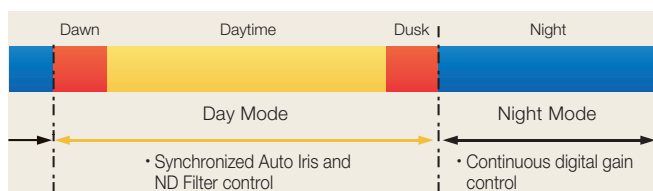
#### Digital Extender

The built-in digital extender expands the center of picture. The expansion can be selected as 1.5X, 2X, 3X, 4X, 6X, 8X, 10X by the camera menu.

\*Note: When the digital extender is used, resolution is reduced as the expansion rate is increased.

#### AVC (Auto Video-level Control) Function

By synchronized control of Auto Iris, Auto Gain and Servo Filter, the video maintains the same level automatically even though lighting conditions change. Especially for continuous outdoor shooting such as a weather camera application, the camera provides stable video level all day long.



#### ATW (Auto Tracking White balance) Function

In addition to conventional one-push style AWB, an incorporated ATW function adjusts white balance continually for outdoor shooting with color temperature changes.

\*Note: The ATW function is only recommended for outdoor shooting.

#### Operational Example of HDL-4500



■ Support for all sorts of commands from remote pan & tilt systems.



Super High Sensitivity 3CMOS HDTV Portable Camera

# HDK-5500

## HDK-5500

The HDK-5500 is capable of extensive use not only in EFP applications, but also in ENG applications. Since the camera catches crucial scenes regardless of illumination, it can be used for variety of purposes such as observation of nature, various documentaries, and real-time reports.

### Camera Operator Assist Function

There are two types of camera operator assist functions incorporated in the HDK-5500 camera head. The viewfinder detail (VF DTL) function allows the camera operator to increase the detail edges to the viewfinder video for easy-focusing. In addition, the Quick EZ Focus (Focus Assist) function is newly incorporated useful tool, providing very distinct enhancement to the viewfinder edge signal to enable the camera operator to make critical focus adjustment.

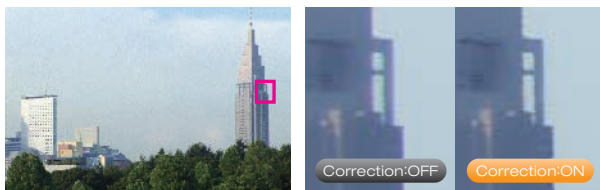


Focus Assist: OFF

Focus Assist: ON as shown with B/W edges

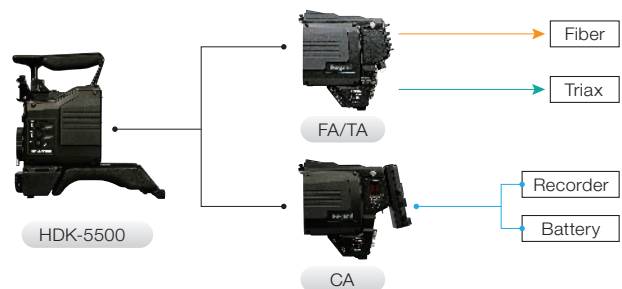
### Lens Aberration Correction Function

The Lens Aberration Correction Function is newly incorporated for minimizing the blur and colored edges caused mainly by lens chromatic aberration.



### Docking Style Camera Body

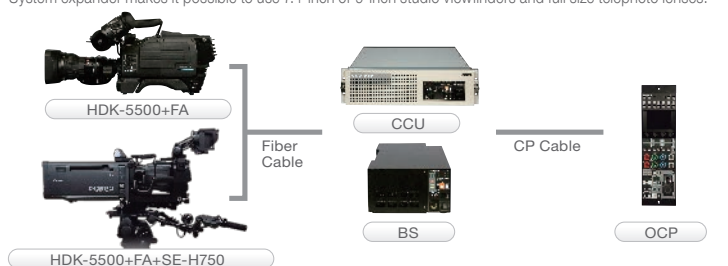
With a docking style camera body, either an FA (Fiber Adaptor) or TA (Triax Adaptor) or CA (Camera Adaptor) can be mounted depending on the use. A new lower profile and lower weight improve the maneuverability for shoulder use.



## Operational Example of HDK-5500

### EFP application [HDK-5500 with FA]

System expander makes it possible to use 7.4-inch or 9-inch studio viewfinders and full size telephoto lenses.



### ENG application [HDK-5500 with CA-75HD]

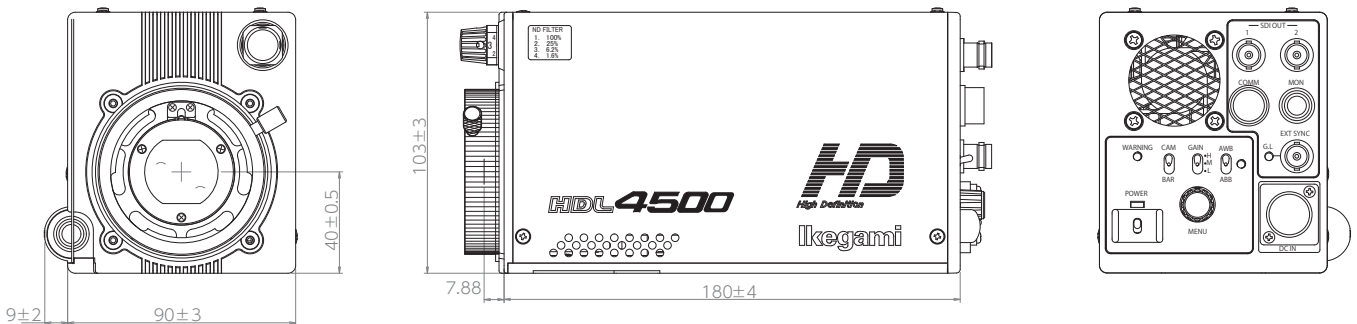
With the CA-75HD camera adaptor, various recorders can be attached with excellent maneuverability.



# Specifications

	HDL-4500	HDK-5500																																								
Scanning System	1080/59.94i, 1080/50i																																									
Image Sensor	Three 2/3-inch 1.3 million pixel CMOS																																									
Sensitivity	F22 or more at 2,000 lx																																									
Minimum Illumination	0.001 lx (theoretical value) / F1.4+78dB [gain up, 100% video level]																																									
Optical Filter	<table border="1"> <tr> <td>ND</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>100%</td> <td>25%</td> <td>6.2%</td> <td>1.6%</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> <td></td> <td></td> </tr> <tr> <td>ECC</td> <td>3200K</td> <td>5600K</td> <td></td> <td></td> </tr> </table>	ND	1	2	3	4		100%	25%	6.2%	1.6%		A	B			ECC	3200K	5600K			<table border="1"> <tr> <td>ND</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td>100%</td> <td>25%</td> <td>6.2%</td> <td>1.6%</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td>ECC</td> <td>3200K</td> <td>4300K</td> <td>6300K</td> <td>8000K</td> </tr> </table>	ND	1	2	3	4		100%	25%	6.2%	1.6%		A	B	C	D	ECC	3200K	4300K	6300K	8000K
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S/N Ratio	56 dB or more																																									
Modulation Depth	60% or more at 520TVL, 18MHz (1080i)																																									
Limiting Resolution	700 TV lines																																									
Gain	-6/0/6/12/18/24/30/36/42/48/54/60/66/72/78dB																																									
Electric Shutter	1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000																																									
Gamma	OFF, 0.35, 0.40, 0.45																																									
Digital Extender	1.5X, 2X, 3X, 4X, 6X, 8X, 10X	-																																								
Output Signals (Digital)	HD-SDI × 2ch (SMPTE 292M, 75Ω BNC Connector, UP CN BOX type: 1ch)	HD-SDI × 2ch (SMPTE 292M, 75Ω BNC Connector)																																								
Output Signals (Analog)	G,B,R / Y,Pb,Pr selectable 1ch (Multi-pin Connector)																																									
External Sync Input	HDTV: PS 1Vp-p, SYNC 0.6Vp-p SDTV: VBS 1Vp-p, BBS 0.3Vp-p																																									
Operating Temperature	-10°C to +45°C (14°F to 113°F)																																									
Storage Temperature	-20°C to +60°C (-4°F to 140°F)																																									
Operating Humidity	30% to 90% (non-condensing)																																									
Weight	approx. 1.7kg (3.75lbs.)	4.5kg (9.92lbs.) with FA-55																																								
Power Requirement	DC +11V to +16V																																									
Dimensions	W90 × H103 × D180mm (W3.5 × H4.1 × D7.1 inch) (excluding protrusions)	W138.5 × H270 × D337mm (W5.5 × H10.6 × D13.3 inch) (excluding protrusions [with FA-55])																																								

## HDL-4500 External View (mm)



Design and specifications are subject to change without notice.



U319A155-IB3.5

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