

Comparison Chart - 4K System Camera -			-> ADVANTAGE	*N/A : Not Avaiable		
Item	Ikegami		SONY		Grass Valley	
Model	UHK-430		HDC-4300		LDX86N 4K	Note
Image Sensor	2/3-inch 4K 3-CMOS		2/3-inch 4K 3-CMOS		2/3-inch 4K 3-CMOS	
Optical prism	F1.4		F1.4		F1.4	
HLG (HDR)	Supported		Supported		Supported	HLG is the international standard for broadcasting which is included BT.2100
Gamma	Able to customize		Able to customize		No info.	
Sensitivity	F10 @ 4K 59.94P / F11 @ 4K 50P F10 @ HD 59.94i / F11 @ HD 50i		F8 @ 4K 59.94P/HD 59.94P		F8.7 to F4.3 @ 4K 50p / F8 to F4 @ 4K 59.94p F11 @ HD 59.94i / F12 @ HD 50i	
Lens Mount	B4		B4		B4	
Colour Space	BT.2020 /BT.709 etc		BT.2020		BT.2020	BT.2020 = International standard for UHDTV BT.709 = International standard for HDTV
	ND	CLEAR, 1/4, 1/16, 1/64, CAP	CAP, CLEAR, 1/4, 1/16, 1/64		CLEAR, 1/4, 1/16, 1/64	UHK-430 has a filter wheel 5positions .
	CC	3200K, 4300K, 6300K, OPTION	CROSS, 3200K, 4300K, 6300K		-	
	EFF	-	-		clear, 4P-star, soft focus	
	ECC	5600K Variable ECC	5600K Variable ECC		3200°K, 5600°K, 7500°K Continuous auto white	
Modulation depth HD (27.5MHz)	60%		55%		No info.	
S/N	62 dB (HD/59.94i)		62 dB (HD/59.94i)		60 dB typical (HD)	
Limiting Resolution	2000TVL @ 4K 60p 1000TVL @ HD		2000TVL @ 4K		No info.	
Matrix	16-axis color matrix		16-axis color matrix		No info.	
Weight	4.6kg		5.0 kg		2.1 + 2.1 = 4.2 kg	Better to consider about balance with 4K lens to make comfortable for cameraman. If the camera head is too light, the center of gravity comes lens side.
Dimensions	W 148.5 × H 243 × D 340 mm (excluding protrusions)		W 156 x H 268 x D 363 mm (excluding protrusions)		W 170 x H 200 x D 180 mm (Camera head) W 132.7 x H 212.1 x D 222.1 mm (Fiber adapter)	
Fiber Transmission	40Gbps		10Gbps		10Gbps	
Gigabit ethernet data trunk line	Available		N/A		Available	
Two piece camera head for future extension	Available		N/A		Available (No information about swappable head)	
System Expander	SE-U430		HDLA-1500, HDLA-1505, HDLA-1507		Reflex SuperXpander	
Camera Control Unit	CCU-430 w/ Simul out option		BPU-4000+ HDCU-1700	BPU-4500 + HDCU-2000	HDCU-4300	Universe XF Transmission
CCU Size	3 U		1.5U (BPU) + Half rack 3U (HDCU)	2U (BPU) + 3U (HDCU) = 5U	2U	2U
Transmission length (Camera Head - CCU)	4,000m		Max. 2,000m	Max. 2,000m	No info.	3000m
Weight	19.0Kg		6.8 (BPU) + 6.7(HDCU) = 13.5kg	8.8 (BPU) + 17.5(HDCU) = 26.3kg	10.1kg	11.8kg
OUTPUT						
4K OUT	4K out x2ch 4K out x4ch (in case of operation with 4K only*) 3G Level-A/B SQUARE DIVISION, 2SI DIVISION selectable 3G :59.94P,50P,29.97PsF,25PsF,23.98PsF 1.5G:59.94L,50L,29.97PsF,25PsF,23.98PsF		4K out x4ch Slot1:8 output 3G/HD Level A/B Slot2:8 output 3G/HD Level A/B	4K out x3ch Slot1:4 output 3G/HD LevelA Slot2:8 output 3G/HD LevelA	No info.	4K out x2ch Quad, Level-A Ikegami CCU-430, depends on module configuration.
12G-SDI OUT (option)	Available		N/A	N/A	N/A	N/A
2K OUT (max.)	8 outputs • Down-converted (1080p/1080i/720p) • HD Cut-out (1080p/1080i) 3G-SDI Level-A/B		20x BNC (in case of operation with HD only) Slot1:8 output 3G/HD Level A/B Slot2:8 output 3G/HD Level A/B Slot3:2 output 3G/HD Level A/B Slot4:2 output HD	16 x BNC (16 outputs) Slot1:4 output 3G/HD LevelA Slot2:8 output 3G/HD LevelA Slot3:2 output 3G/HD LevelA Slot4:2 output HD	No info.	BNC 6x 0.8 Vp-p, 75 , SMPTE ST 292, 1080i/720p at 50/59.94 Hz
MONI OUT	2x HD-SDI (WFM & PIX)				No info.	1x HD-SDI monitoring out 1x SD-SDI monitoring out
HD TRUNK OUT	1x HD-SDI		1x HD-SDI	1x HD-SDI	1x HD-SDI	N/A
HD Cutout	Available (Option)		Available (Option)	Available (Option)	Available (Option) *Limited(No-4K output)	N/A
Simultaneous output	Available (Option)		Available (Option)	Available (Option)	No info.	No info.
Input						
SDI Return video	4ch 3G-SDI : SMPTE 424/425 Level-A/B HD-SDI : SMPTE 292M		2ch 3G-SDI : SMPTE 424/425 Level B HD-SDI : SMPTE 292M		No info.	3ch 3G/HD/SD
HD Q-TV (Prompter)	2x HD-SDI : SMPTE 292M		1x HD-SDI : SMPTE 292M		No info.	Analog prompter only
Viewfinder	VFE741D	VFL701D	HDVFEL75	HDVFL750		LDK 5307
Panel	7.4-inch OLED panel	7-inch LCD panel	7.4-inch color OLED panel	7-inch LCD panel		7-inch LCD
Effective Pixels	960 x 540	1920 x 1080	960 x 540	1920 x 1080		800 x 450
Brightness	350 cd/m ²	400 cd/m ² (typ.)	350 cd/m ² (typ.)	300 cd/m ² (typ.)		350 cd/m ²
Support Format	1080i / 60,59.94,50 1080p / 60,59.94,50,30,29.97,25,24,23.98 1080psf / 30,25,24,23.98 720p / 60,59.94,50,30,29.97,25,24,23.98		1080i /59.94,50 1080psf / 29.97,25,24,23.98 720p / 59.94,50	No info.		All current HD formats
Function against burn-in	Supported	-	Supported	-		-
Attachment bracket	Pan, Tilt, Up/down, Back/ Forward		Pan, Tilt, Up/down			-
Control Camera Menu from VF	Supported		N/A			Supported VFE741D/VFL701D is newly adopted the digital interface. It provides more fidelity image and bidirectional communication with camera head. Control VF menu from camera head is also available.
VF Marker	Safety Marker : 80-100% by 1%step Center Marker : Supported Aspect Marker : Supported Cross 5/10 Marker : Supported Shadow mode : Supported Marker color : Selectable (7choices) User Marker : Supported		Safety Marker : 80.0, 90.0, 92.5, 95.0% Center Marker : Supported Aspect Marker : Supported Marker color : Selectable (3choices)		Supported	
Video Magnification	Supported (x2, x4, x8)		Supported (ON/OFF)		No info.	Focus assist function
Peaking Function	Focus/Zoom		Focus/Zoom		No info.	Focus assist function
Focus Indicator	Supported		Supported		No info.	Focus assist function
External Memory (USB)	Supported		N/A		N/A	Data (menu setting,user marker,captured image) can be stored to USB. This data is able to copy to other VFE741D/VFL701D. Also, this USB port can be used for firmware update and USB mouse control.
Screen capture	Supported		N/A		No info.	Able to switch the captured image and shooting image instantly. It can be used for the shooting position adjustment, color adjustment etc. For example, it helps to re-shoot at same angle using captured image. (Captured image can be stored to USB, and the stored image is able to download to VF)
Waveform display	Supported (2 size, 3 positions)		Supported (1 size, 2 position)		No info.	
Vector Scope	Supported		N/A		No info.	
Assignable switch	4 switches (19 functions)		4 switches (8 functions)	6 switches (11 functions)	No info.	
PinP	Supported		Supported		No info.	
Monitor Use	Supported		N/A		N/A	It can be used as VF on crane camera or monitor, not only as a VF.
	*Extention board is required.					